City of San Diego

CONTRACTOR'S NAME:	Sukut Construction, LLC	
ADDRESS: 4010 W. Chandl	ller Avenue, Santa Ana, CA 92704	
TELEPHONE NO.: 714-540	0-5351 FAX NO.:	
CITY CONTACT: Rosa Rieg	go, Senior Contract Specialist, Email: RRiego@sandie	ego.gov
Phone No	n (619) 533-3426	

L. Campos / M. Jirjis-Nakasha / Y. Kawai

PROPOSAL DOCUMENTS (1-Step RFP)





FOR

Organics Processing Facility

RFP NO.:	K-22-2049-DB1-3-C	
SAP NO. (WBS/IO/CC):	L-17000.2	
CLIENT DEPARTMENT:	2115	
COUNCIL DISTRICT:	6	
PROIECT TYPE:	BS, FA, FB	

THIS CONTRACT IS SUBJECT TO THE FOLLOWING:

- > PHASED-FUNDING
- > THE CITY'S SUBCONTRACTING PARTICIPATION REQUIREMENTS FOR SLBE PROGRAM.
- > ELIGIBLE FOR JOINT VENTURE PREQUALIFICATION STATUS (see Instructions to Proposers)
- ➤ PREVAILING WAGE RATES: STATE ☐ FEDERAL ☐
- ➤ APPRENTICESHIP

PROPOSALS DUE:

12:00 PM

APRIL 12, 2022

CITY OF SAN DIEGO'S ELECTRONIC BIDDING SITE, PLANETBIDS

http://www.sandiego.gov/cip/bidopps/index.shtml

DEPUTY CITY ENGINEER

The engineering Specifications and Special Provisions contained herein have been p	orepared l	by or
under the direction of the following Registered Engineer:		

			PROFESSIONAL DALLACE
/ <i>p</i> /	2/16/2022	_ Seal:	No. C55464
For City Engineer	Date		CIVIL OF CALLED

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REQUEST FOR PROPOSAL

1. INTRODUCTION AND PROJECT OVERVIEW

1.1. SOLICITATION

- **1.1.1.** This is the City of San Diego's (City) solicitation process to acquire Design-Build services for the **Organic Processing Facility** Design-Build project.
- **1.1.2.** This RFP describes the Project, the required Scope of Work and Services, the Design-Builder selection process, the minimum information that shall be included in the Proposal for this Project and the terms and conditions governing the Work. Failure to submit all requested information in accordance with the requirements of this Request for Proposal (RFP) may be cause for disqualification.
- **1.1.3.** Each Proposal, properly executed as required by this RFP, shall constitute a firm offer which may be accepted by the City within the time specified in the Proposal.
- **1.1.4.** This RFP will not commit the City to award a contract, to defray any costs incurred in the preparation of a Proposal pursuant to this RFP, or to procure or contract for the Work.
- **1.1.5.** Selection announcements, contract awards, and all data provided by the City shall be protected by the Design-Builder from public disclosure. The Design-Builders desiring to release information to the public, shall receive prior written approval from the City.
- **1.1.6.** The Design-Builder, by submitting a response to this RFP, agrees to provide the required services for the terms and conditions noted in this RFP and its exhibits if awarded by the City. The agreement and other terms and conditions are included in the Design-Build Contract and The GREENBOOK, The WHITEBOOK, and the Supplementary Special Provisions (SSP).
- **1.1.7.** Any architectural firms, engineering firms, specialty consultants, or individuals retained by the City to assist in drafting the RFPs or the Project's preliminary design may not be eligible to participate in the competition with any Design-Build Entity. It is the responsibility of the Design-Build entity to obtain the required legal advice necessary to resolve such matters.
- 2. **SUMMARY OF WORK:** This is the City's solicitation process to acquire Design-Build services for a Design-Build project. The Environmental Services department (ESD) has identified the need to relocate the existing Miramar Greenery and develop a new Organics Processing Facility (OPF). The OPF would will be located at North Miramar Landfill within the City's existing leasehold. The OPF project shall consist of an Intake Facility (building) and associated processing. For additional information refer to Attachment A.

- **3. FULL AND OPEN COMPETITION:** This contract is open to full competition and may be bid on by Contractors who are on the City's current Prequalified Contractors' List. For information regarding the Contractors Prequalified list visit the City's web site: http://www.sandiego.gov.
- 4. PROPOSAL DUE DATE AND TIME ARE: APRIL 12, 2022 at 12:00 PM
- **5. ESTIMATED PROJECT COST:** The City's estimated cost for this project is **\$49,000,000**.
- **6. LICENSE REQUIREMENT:** To be eligible for award of this contract, Prime contractor must possess the following licensing classification(s): **A**
- **7. CONTRACT PERIOD:** The Project shall be completed within **500** Working Days from the Notice to Proceed (NTP).
- **8. PREVAILING WAGE RATES APPLY TO THIS CONTRACT**: Refer to Attachment D.
- **9. PHASED FUNDING:** For Phased Funding Conditions, see Attachment B.
- 10. PRE-PROPOSAL MEETING AND SITE VISIT:
 - 10.1.1. PRE-PROPOSAL SITE VISIT: All those wishing to submit a Proposal are encouraged to visit the Work Site with the Engineer. The purpose of the Site visit is to acquaint the Proposers with the Site conditions. To request a sign language or oral interpreter for this visit, call the Public Works Contracts at (619) 533-3450 at least 5 Working Days prior to the meeting to ensure availability. The Pre-Proposal Site Visit is scheduled as follows:

Date: March 8, 2022 Time: 9:00 AM

Location: Miramar Landfill, 5180 Convoy Street, San Diego, CA 92111

- **11. SUBCONTRACTING PARTICIPATION PERCENTAGES:** Subcontracting participation percentages apply to this contract.
 - 11.1.1. The City has incorporated mandatory SLBE-ELBE subcontractor participation percentages to enhance competition and maximize subcontracting opportunities. For the purpose of achieving the mandatory subcontractor participation percentages, a recommended breakdown of the SLBE and ELBE subcontractor participation percentages based upon certified SLBE and ELBE firms has also been provided to achieve the mandatory subcontractor participation percentages:

SLBE participation
 ELBE participation
 Total mandatory participation
 10.3%
 15.3%

11.1.2. The Proposal will be declared non-responsive if the Proposer fails to meet the the following mandatory requirements:

- **11.1.2.1.** Proposer's inclusion of SLBE-ELBE certified subcontractors at the overall mandatory participation percentage identified in this document; **OR**
- **11.1.2.2.** Proposer's submission of Good Faith Effort documentation, saved in searchable Portable Document Format (PDF) and stored on Compact Disc (CD) or Digital Video Disc (DVD), demonstrating the Proposer made a good faith effort to outreach to and include SLBE-ELBE Subcontractors required in this document within 3 Working Days of the Proposal due date if the overall mandatory participation percentage is not met.

12. SELECTION AND AWARD SCHEDULE:

12.1. The City anticipates that the process for selecting a Design-Builder and awarding the contract will be according to the following tentative schedule. Dates are subject to change:

12.2.	Pre-Proposal Site Visit	March 8, 2022
12.3.	Proposal Due Date	April 12, 2022
12.4.	Presentations or Interviews	April 26, 2022
12.5.	Selection and Notification	May 10, 2022
12.6.	Limited Notice to Proceed	July 19, 2022

INSTRUCTIONS TO PROPOSERS AND GENERAL CONDITIONS

1. PREQUALIFICATION OF CONTRACTORS AND CALIFORNIA STATE LICENSE:

- **1.1.** Contractors submitting a Proposal must be pre-qualified for the total amount proposed, including all alternate items, prior to the date of submittal. Bids from contractors who have not been pre-qualified as applicable and Bids that exceed the maximum dollar amount at which contractors are pre-qualified may be deemed **non-responsive** and ineligible for award.
- **1.2.** The completed application must be submitted online no later than 2 weeks prior to the bid opening.
- **1.3. Joint Venture Bidders Cumulative Maximum Bidding Capacity:** For projects with an engineer's estimate of \$30,000,000 or greater, Joint Ventures submitting bids may be deemed responsive and eligible for award if the Cumulative Maximum Bidding Capacity of the individual Joint Venture entities is equal to or greater than the total amount proposed.
 - **1.3.1.** Each of the entities of the Joint Venture must have been previously prequalified at a minimum of \$15,000,000.
 - **1.3.2.** Bids submitted with a total amount proposed of less than \$30,000,000 are not eligible for Cumulative Maximum Bidding Capacity prequalification. To be eligible for award in this scenario, the Joint Venture itself or at least one of the Joint Venture entities must have been prequalified for the total amount proposed.
 - **1.3.3.** Bids submitted by Joint Ventures with a total amount proposed of \$30,000,000 or greater on a project with an engineer's estimate of less than \$30,000,000 are not eligible for Cumulative Maximum Bidding Capacity pregualification.
 - **1.3.4.** The Joint Venture designated as the Apparent Low Bidder shall provide evidence of its corporate existence and furnish good and approved bonds in the name of the Joint Venture within 14 Calendar Days of receipt by the Bidder of a form of contract for execution.
- **1.4.** Complete information and links to the on-line prequalification application are available at:
 - http://www.sandiego.gov/cip/bidopps/prequalification
- **1.5.** Due to the City's responsibility to protect the confidentiality of the contractors' information, City staff will not be able to provide information regarding contractors' prequalification status over the telephone. Contractors may access real-time information about their prequalification status via their vendor profile on <u>PlanetBids™</u>.

- 2. ELECTRONIC FORMAT RECEIPT AND OPENING OF PROPOSALS: Proposals will be received in <u>electronic format (eBids) EXCLUSIVELY</u> at the City of San Diego's electronic bidding (eBidding) site, at: https://www.sandiego.gov/cip/bidopps/ and are due by the date, and time shown on the cover of this solicitation.
 - **2.1. PROPOSERS MUST BE PRE-REGISTERED** with the City's bidding system and possess a system-assigned Digital ID in order to submit and electronic proposal.
 - 2.2. The City's bidding system will automatically track information submitted to the site including IP addresses, browsers being used and the URLs from which information was submitted. In addition, the City's bidding system will keep a history of every login instance including the time of login, and other information about the user's computer configuration such as the operating system, browser type, version, and more. Because of these security features, Contractors who disable their browsers' cookies will not be able to log in and use the City's bidding system.
 - 2.3. Upon entry of their proposal, the system will ensure that all required fields are entered. The system will not accept a proposal for which any required information is missing. This includes all necessary pricing, subcontractor listing(s) and any other essential documentation and supporting materials and forms requested or contained in these solicitation documents.
 - 2.4. PROPOSALS REMAIN SEALED UNTIL DUE DATE AND TIME. eBids and eProposals are transmitted into the City's bidding system via hypertext transfer protocol secure (https) mechanism using SSL 128-256 bit security certificates issued from Verisign/Thawte which encrypts data being transferred from client to server. Proposals submitted prior to the Due Date and Time are not available for review by anyone other than the submitter, who will have until the Due Date and Time to change, rescind or retrieve its proposal should they desire to do so.
 - **2.5. PROPOSALS MUST BE SUBMITTED BY DUE DATE AND TIME**. Once the deadline is reached, no further submissions are accepted into the system. Once the Due Date and Time has passed, proposers, the general public, and City staff are able to immediately see the results on line. City staff may then begin reviewing the submissions for responsiveness, Equal Opportunity Contracting Program (EOCP) compliance and other issues.
 - **2.6. TECHNICAL PROPOSAL AND PRICE PROPOSAL ARE TO BE SEPARATE**. The proposer is to submit two separate proposal PDFs by the due date and time.
 - **2.6.1.** The Technical proposal, which should contain the items detailed below, in Attachment G and Attachment I. There is to be **NO PRICING** information within this proposal. If a Technical proposal contains pricing information, the submission may be deemed non-responsive and ineligible for further consideration, and
 - **2.6.2.** The Price proposal, which should detail the cost structure and include any forms as required herein.

- **2.7. RECAPITULATION OF THE WORK.** Proposals shall not contain any recapitulation of the Work. Conditional proposals may be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.
- **2.8. PROPOSALS MAY BE WITHDRAWN** by the Proposer prior to, but not after, the time set as Due Date and Time.
 - 2.8.1. Important Note: Submission of the electronic proposal into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the proposer's submission to upload and be received by the City's eBidding system. It is the proposer's sole responsibility to ensure their proposals are received on time by the City's eBidding system. The City of San Diego is not responsible for proposals that do not arrive by the required date and time.
- **2.9. ACCESSIBILITY AND AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE.** : To request a copy of this solicitation in an alternative format, contact the Engineering & Capital Projects Department Contract Specialist listed in the cover of this solicitation at least five (5) working days prior to the Proposal due date to ensure availability.

3. ELECTRONIC SUBMISSIONS CARRY FULL FORCE AND EFFECT

- **3.1.** The proposer, by submitting its electronic proposal, acknowledges that doing so carries the same force and full legal effect as a paper submission with a longhand (wet) signature.
- **3.2.** By submitting an electronic proposal, the proposer certifies that the proposer has thoroughly examined and understands the entire Contract Documents (which consist of the plans and specifications, drawings, forms, affidavits and the solicitation documents), and that by submitting the eBid as its proposal, the proposer acknowledges, agrees to and is bound by the entire Contract Documents, including any addenda issued thereto, and incorporated by reference in the Contract Documents.
- **3.3.** The Proposer, by submitting their electronic proposal, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certification, forms and affidavits submitted as part of this proposal are true and correct.
- **3.4.** Each properly signed Proposal shall constitute a firm offer that may be accepted by the City within the time frame specified herein.
- **3.5.** The Proposer agrees to guarantee the Contract Price for a period of 120 days from the date of Bid opening. The duration of the Contract Price guarantee may be extended, by mutual consent of the parties, by the number of days required for the City to obtain all items necessary to fulfill all contractual conditions.
- **4. PROPOSALS ARE PUBLIC RECORDS:** Upon receipt by the City, proposals shall become public records subject to public disclosure. It is the responsibility of the respondent to clearly identify any confidential, proprietary, trade secret or otherwise legally privileged information contained within the proposal's General references to sections of the California Public Records

Act (PRA) will not suffice. If the Proposer does not provide applicable case law that clearly establishes that the requested information is exempt from the disclosure requirements of the PRA, the City shall be free to release the information when required in accordance with the PRA, pursuant to any other applicable law, or by order of any court or government agency, and the Proposer will hold the City harmless for release of this information.

5. EQUAL OPPORTUNITY CONTRACTING

- **5.1.** As set forth in this RFP, the City is dedicated to the principles of equal opportunity in the workplace and in subcontracting. It is the City's expectation that firms doing business with the City have, and are able to demonstrate, the same level of commitment.
- **5.2.** The Design-Builders are encouraged to take positive steps to diversify and expand their subcontractor solicitation base and to offer contracting opportunities to all eligible certified Subcontractors in accordance with the City's EOCP requirements included in the Contract Documents.

5.3. Design-Builder's Work Force

- **5.3.1.** The Design-Builders shall submit with its Proposal a Work Force Report (EOC Form BB05) and prior to award of contract, the successful Design-Builder shall submit to the City's EOCP office an updated Work Force Report or an Equal Employment Opportunity (EEO) Plan.
- **5.3.2.** If under representations are noted in the Work Force Report when compared to County Labor Force Availability data, the Design-Builder shall submit an Equal Opportunity Plan. Any Equal Employment Opportunity Plan submitted shall include the elements as outlined in the EOCP Requirements included in The WHITEBOOK.
- **5.3.3.** The specified Equal Opportunity Contracting Program (EOCP) forms are available for download from the City's web site at:

http://www.sandiego.gov/eoc/forms

5.4. Nondiscrimination Ordinance (Municipal Code §§ 22.2701-22.2708)

5.4.1. The Design-Builder shall not discriminate on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age or disability in the solicitation, selection, hiring or treatment of the Subcontractors and Suppliers. The Design-Builder shall provide equal opportunity for Subcontractors to participate in subcontracting opportunities. The Design-Builder understands and agrees that violation of this clause shall be considered a material breach of the contract and may result in contract termination, debarment or other sanctions.

- **5.4.2.** This language shall be in contracts between the Design-Builder and any Subcontractors and Suppliers.
- **5.4.3.** As part of its Proposal, the Design-Builder shall provide to the City a list of all instances within the last 10 years where a complaint was filed or pending against Design-Builder in a legal or administrative proceeding alleging that Design-Builder discriminated against its employees, the Subcontractors, or Suppliers, and a description of the status or resolution of that complaint, including any remedial action taken. If there have not been any complaints filed or pending against Design-Builder, a written statement from the Design-Builder to confirm shall be included in the Proposal.

5.5. Contractor Registration and Electronic Reporting System

5.5.1. Prior to the award of the Contract, the Design-Builder, Subcontractors, and Suppliers must register with the City's web-based vendor registration and bid management system, BidsOnline, hosted by PlanetBids System. For additional information go to:

https://www.sandiego.gov/purchasing/bids-contracts/vendorreg

- **5.5.2.** The City may not award the contract until registration of all subcontractors and suppliers is complete. In the event this requirement is not met within the time frame specified in the Notice of Intent to Award letter, the City reserves the right to rescind the Notice of Award / Intent to Award and to make the award to the next responsive and responsible proposer
- **5.5.3.** Following the award of the Contract, the Design-Builder will be required to use the City's web-based contract compliance application for EOCP reporting purposes e.g., Weekly Certified Payroll, Monthly Employment Utilization, and Monthly Payments. Online tutorials are available at:

http://stage.prismcompliance.com/etc/vendortutorials.htm

- **5.5.3.1.** The City may retain progress payments if:
- **5.5.3.2.** The non-registered Design-Builder, Subcontractors or Suppliers fail to register.
- **5.5.3.3.** EOCP reporting is delinquent or inadequate.
- **5.5.3.4.** Underpayment has occurred.

6. PRE-PROPOSAL ACTIVITIES

6.1. Submission of Questions

6.1.1. The Director (or designee) of the Purchasing & Contracting Department – Public Works Division is the officer responsible for opening, examining, and evaluating the competitive Proposals submitted to the City for the acquisition,

construction, and completion of any public improvement except when otherwise set forth in these documents. All questions related to this solicitation shall be submitted to:

Contract Specialist Email Address: RRiego@sandiego.gov.

- **6.1.2.** Questions received less than 14 Days prior to the Proposal due date may not be considered.
- **6.1.3.** Questions or clarifications deemed by the City to be material shall be answered via issuance of an addendum and posted to the City's online bidding service.
- **6.1.4.** Only questions answered by formal written addenda shall be binding. Oral and other interpretations or clarifications shall be without legal effect. It is the Design-Builder's responsibility to be informed of any Addenda that have been issued and to adjust its Proposal accordingly.

6.2. Revisions to the RFP

The City, at its option, may respond to any or all questions submitted in writing via the City's eBidding web site in the form of an addendum. No other responses to questions, oral or written, shall be of any force or effect with respect to this solicitation.

Any changes to the Contract Documents through addendum are made effective as though originally issued with the Proposal. The Design-Builders shall acknowledge the receipt of Addenda at the time of Proposal submission.

7. EXAMINATION OF PLANS, SPECIFICATIONS, AND SITE OF WORK

- **7.1.** Contract Documents may be obtained by visiting the City's website: http://www.sandiego.gov/cip/ Plans and Specifications for this contract are also available for review in the office of Engineering & Capital Projects Department Contracts Division.
- 7.2. The Design-Builders shall carefully examine the Project Site, the Plans and Specifications, and other materials as described in or referenced by this RFP. The submission of a Proposal shall be conclusive evidence that the Design-Builder has investigated and is satisfied as to the conditions to be encountered, as to the character, quality, and scope of work, the quantities of materials to be furnished, local conditions, and as to the requirements of the Contract Documents.
- 8. CHANGES TO THE SCOPE OF WORK: Once a proposal has been accepted by the City and the award has been made, the Design-Builder shall immediately notify the City in writing of any proposed or anticipated change in the scope, contract amount, or contract time; and shall obtain the City's written consent to the change(s) prior to affecting them. In no event shall the City's consent be construed to relieve the Design-Builder from its duty to render all work and services in accordance with applicable laws and accepted industry standards

- **9. DESIGN SUBMITTALS:** The **C**ity's review of the Design-Builder's Design Submittals shall not relieve the Design-Builder from its responsibilities under the Contract, or be deemed to be an acceptance or waiver by City of any deviation from, or of the Design-Builder's failure to comply with, any provision or requirement of the Contract Documents, unless such deviation or failure has been identified as such in writing in the document submitted for acceptance by the Design-Builder and accepted by City. Where approval or acceptance by City is required, it is understood to be general approval only, and does not relieve the Design-Builder of responsibility for complying with all applicable laws and good professional practices as the Design-Builder shall be the Engineer of Record.
- **10. BONDS AND INSURANCE:** Prior to the award of the Contract (or Task Order), the Design-Builders shall submit evidence of separate bonds and insurance as specified in Section 5-4, "INSURANCE," of the City's standard specifications for public works construction unless specified otherwise in the Contract Documents.
- 11. SUBMITTAL REQUIREMENTS: PROPOSALS MUST BE RECEIVED NO LATER THAN THE DUE DATE AND TIME. Proposals may be withdrawn by the Design-Builder only up to the proposal due date and time.

IMPORTANT NOTE: Submission of the electronic proposals into the system may not be instantaneous. Due to the speed and capabilities of the user's internet service provider (ISP), bandwidth, computer hardware and other variables, it may take time for the bidder's submission to upload and be received by the City's eBidding system. It is the bidder's sole responsibility to ensure that their bids / proposals are received on time by the City's eBidding system. The City of San Diego is not responsible for bids / proposals that do not arrive by the required date and time.

- **11.1. TECHNICAL PROPOSAL REQUIREMENTS:** Technical Proposals **s**ubmitted in response to this RFP shall be in the following order and shall include:
 - Legal name of company.
 - Legal form of entity (partnership, corporation, joint venture, or other). If joint venture, identify the members of the joint venture, and provide all information required under this section for each member.
 - Year of establishment of entity.
 - If company is subsidiary of a parent company, identify the parent company.
 - Address of main office.
 - Address of San Diego satellite office if applicable.
 - Contact information for firm, including name, title, email address and telephone number.
 - Number of employees in San Diego County.
 - Applicable License(s):
 - City of San Diego Business License Number, including expiration date.

- State Contractor's License Number including expiration date, and all classifications. Professional Engineering/Architect License Number, including expiration date.
- Failure to provide all required information may result in the Proposal being considered non-responsive and ineligible for further consideration.
 - **11.1.1.** The Technical Proposal shall be concise, well organized, and demonstrate the Design-Builder's qualifications and experience applicable to the Project. The Technical Proposal shall be limited to 50 one-sided pages (8^{1/2"} x 11"), exclusive of resumes, graphics, forms, pictures, photographs, dividers, front and back cover, etc., that address the Technical Proposal contents; and of Equal Opportunity Contracting documentation. Font Type shall be Times New Roman in a minimum 12 Point font size, with a minimum 1" margin for text pages. A cover letter may be submitted but shall not contain any information that is a required element of the Technical Proposal. Any Technical Proposal that does not comply with these formatting standards may not be considered.
 - **11.1.2.** The Technical Proposals submitted in response to this RFP shall be in accordance with the requirements listed in ATTACHMENT G. The contents of the Technical Proposal shall be organized consistent with the format in Attachment G.
 - **11.1.3.** Design elements which deviate from the Scope of Work, City's design guidelines, or material substitutions which differ from the Approved Material List shall be highlighted in accordance with Attachment G.
 - **11.1.4.** Failure to comply with this section may render the Design-Builder's submittal non-responsive and ineligible for further consideration.

11.2. PRICE PROPOSAL REQUIREMENTS

- **11.2.1.** A clearly marked, signed PDF of the Price Proposal is to be submitted in a separate PDF. This **is not** to be included with the Technical proposal. Refer to Attachment H of this RFP for any Price Proposal forms required to be used.
- **11.2.2.** The Price Proposal shall be signed by an individual or individuals authorized to execute legal documents on behalf of the Design-Builder.
- **11.2.3.** The lowest proposed price is not the determining factor for award of this contract. See Attachment G for the criteria by which the proposals will be evaluated.
- **11.2.4.** In the event of any discrepancies, written numbers will govern over numerical. Also, the sum of all lump sum line items, unit price line items, allowance line items and any other priced items will govern over the "Total Design-Build Proposal" line item.
- **11.2.5.** The required EOCP information such as Subcontractor and Supplier listings shall be submitted as part of the Price Proposal.

12. SELECTION CRITERIA AND SCORING

- **12.1.** An evaluation Panel comprised of representatives from the City will be established for this Project. The Panel may also include other interested parties such as additional participating agencies, representative from the community and other appropriate agencies.
- **12.2.** Proposals will be ranked according to the selection criteria set forth in Attachment G.
- **12.3.** The Panel will review all proposals received. Interviews or presentations will be conducted as needed in accordance with Attachment G.
- **12.4.** Based upon this technical review, the Panel will rank the Design-Builders' proposals in accordance with the selection criteria set forth in Attachment G of this RFP.
- **12.5.** Once the Technical Proposals have been ranked by the Panel, the Design-Builders' price proposals will be made available to the panel and forwarded to EOCP for review and scoring of subcontractor participation. The EOCP score will then be added to the Design-Builders' cumulative scores.

13. SUBCONTRACTOR INFORMATION:

13.1. **LISTING OF SUBCONTRACTORS.** In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act" of the California Public Contract Code, the Bidder shall provide the NAME and ADDRESS of each Subcontractor who will perform work, labor, render services or who specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Contractor's total Bid. The Bidder shall also state within the description, whether the subcontractor is a CONSTRUCTOR, CONSULTANT or SUPPLIER. The Bidder shall state the DIR REGISTRATION NUMBER for all subcontractors and shall further state within the description, the PORTION of the work which will be performed by each subcontractor under this Contract. The Proposer shall list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed shall be stated for all subcontractors listed. Failure to comply with this requirement may result in the Bid being rejected as **non-responsive** and ineligible for award. The Bidder's attention is directed to the Special Provisions - General; Paragraph 2-3, "Subcontracts", which stipulates the percent of the Work to be performed with the Proposers' own forces. The Bidder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors for which Proposers are seeking recognition towards achieving any mandatory, voluntary (or both) subcontracting participation goals.

Additionally, pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 1725.5, by submitting a bid or proposal to the City, Proposer is certifying that he or she has verified that all subcontractors used on this public work project are registered with the California

Department of Industrial Relations (DIR). The Bidder shall provide the name, address, license number, DIR registration number of any Subcontractor – regardless of tier - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract.

- 13.2. LISTING OF SUPPLIERS. Any Bidder seeking the recognition of Suppliers of equipment, materials, or supplies obtained from third party Suppliers towards achieving any mandatory or voluntary (or both) subcontracting participation goals shall provide, at a minimum, the NAME, LOCATION (CITY), DIR REGISTRATION NUMBER and the DOLLAR VALUE of each supplier. The Bidder will be credited up to 60% of the amount to be paid to the Suppliers for materials and supplies unless vendor manufactures or substantially alters materials and supplies, in which case, 100% will be credited. The Bidder is to indicate within the description whether the listed firm is a supplier or manufacturer. If no indication is provided, the listed firm will be credited at 60% of the listed dollar value for purposes of calculating the Subcontractor Participation Percentage.
- **13.3. LISTING OF SUBCONTRACTORS OR SUPPLIERS FOR ALTERNATES.** For subcontractors or suppliers to be used on additive or deductive alternate items, in addition to the above requirements, bidder shall further note "ALTERNATE" and alternate item number within the description.

14. AWARD

- **14.1.** After the Technical Proposals have been evaluated, scored and ranked; the Price proposals will be factored in according to the criteria set forth in Attachment G. A Design-Builder selection will then be made.
- **14.2.** The City will announce in writing to all the RFP participants the selected Design-Builder. The announcement will show the results of the evaluation. This notification to the Design-Builders shall constitute the public announcement of the selected Design-Builder. In the event that the selected Design-Builder is subsequently deemed non-responsive or non-responsible, a new public announcement will be provided to all proposers with the name of the newly designated selected Design-Builder.
- **14.3.** This RFP will not commit the City to award a contract, to defray any costs incurred in the preparation of a Proposal pursuant to this RFP, or to procure or contract for the Work.
- **14.4.** Selection announcements, contract awards, and all data provided by the City shall be protected by the Design-Builder from public disclosure. The Design-Builders desiring to release information to the public shall receive prior written approval from the City.
- **14.5.** Design-Builders who submit a response to this RFP agree to provide the required services in accordance with the terms and conditions noted in this RFP and its attachments upon award by the City. The agreement and other terms and conditions are included in the Design-Build Contract, The GREENBOOK, The WHITEBOOK, and the Supplementary Special Provisions (SSP).

- **14.6.** Any architectural firms, engineering firms, specialty consultants, or individuals retained by the City to assist in drafting the RFPs or the Project's preliminary design may not be eligible to participate in the competition with any Design-Build Entity without the prior written consent of City. Any architectural firms, engineering firms, specialty consultants, or individuals retained by the City to assist in drafting any Reference Documents, such as the Water Department's Master Plan and any other document that was not prepared specifically for this contract, are considered to be eligible to participate.
- **14.7.** To obtain the price Proposal results, view the results on the City's web site, or request the results by U.S. mail and provide a self-addressed stamped envelope. If requesting by mail, be sure to reference the Proposal name and number. The Proposal tabulations will be mailed to you upon their completion. The results will not be given over the telephone.

15. ADDITIONAL POLICIES, PROCEDURES, TERMS AND CONDITIONS

- **15.1.** The Program's Selection Process is based on the policies, procedures and guidelines set forth in the City Municipal Code Chapter 2, Article 2, Division 33.
- **15.2. Protests.** A Design-Builder may protest the award of the Contract to another Design-Builder in accordance with San Diego Municipal Code.
- **15.3.** Changes to Key Personnel and Substitution of Subcontractors. The Design-Builder shall not change or substitute any individual that is identified in its proposal as "key personnel" without the written consent of the City. The Design-Builder shall not change or substitute any material, supplier, or subcontractor identified in its Proposal without written consent of the City. The City's consent will not be unreasonably withheld.
- **15.4. Project Team.** The Design-Builder shall maintain all representations, team members, and proposed tasks and work elements as valid, except for the schedule which may be adjusted as mutually agreed upon by the City and the Design-Builder.
- **15.5. Submittal of "Or Equal" Items.** See 4- 6, "Trade Names or Equals" in the SSP and as modified by the Scope of Work ATTACHMENT A.
- **15.6. Subcontract Limitations.** The Design-Builder's attention is directed to Standard Specification for Public Works Construction, Section 3-3, "SUBCONTRACTORS" which requires the Design-Builder to perform not less than the specified amount under this RFP. Failure to comply shall render the Proposal non-responsive.
- **15.7. San Diego Business Tax Certificate.** All Contractors, including Subcontractors, not already having a City of San Diego Business Tax Certificate for the work contemplated shall secure the appropriate certificate from the City Treasurer, Civic Center Plaza, first floor, before the Contract can be executed.
- **15.8. City Standard Provisions.** The work resulting from this RFP is subject to the following standard provisions. See The WHITEBOOK for details.

- **15.8.1.** The City of San Diego Resolution No. R-277952 adopted on May 20, 1991 for a Drug-Free Workplace.
- **15.8.2.** The City of San Diego Resolution No. R-282153 adopted on June 14, 1993 related to the Americans with Disabilities Act.
- **15.8.3.** The City of San Diego Municipal Code §22.3004 for Pledge of Compliance.
- **15.8.4.** The City of San Diego's Labor Compliance Program and the State of California Labor Code §§1771.5(b) and 1776.
- **15.8.5.** Sections 1777.5, 1777.6, and 1777.7 of the State of California Labor Code concerning the employment of apprentices by contractors and subcontractors performing public works contracts.
- **15.8.6.** The City's Equal Benefits Ordinance (EBO), Chapter 2, Article 2, Division 43 of The San Diego Municipal Code (SDMC).
- **15.8.7.** The City's Information Security Policy (ISP) as defined in the City's Administrative Regulation 90.63.
- **15.9. Prevailing Wage Rates Apply:** Refer to Attachment D.
- **15.10. Reference Standards:** Except as otherwise noted or specified, the Work shall be completed in accordance with the following standards:

Title	Edition	Document Number
Standard Specifications for Public Works Construction ("The GREENBOOK") http://www.greenbookspecs.org/	2021	ECPI010122-01
City of San Diego Standard Specifications for Public Works Construction ("The WHITEBOOK")* https://www.sandiego.gov/publicworks/edocref/greenbook	2021	ECPI010122-02
City of San Diego Standard Drawings* https://www.sandiego.gov/publicworks/edocref/standarddraw	2021	ECPI010122-03
Citywide Computer Aided Design and Drafting (CADD) Standards https://www.sandiego.gov/publicworks/edocref/drawings	2018	PWPI010119-04
California Department of Transportation (CALTRANS) Standard Specifications – http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2018	PWPI030119-05
CALTRANS Standard Plans http://www.dot.ca.gov/des/oe/construction-contract-standards.html	2018	PWPI030119-06
California Manual on Uniform Traffic Control Devices Revision 6 (CA MUTCD Rev 6) https://dot.ca.gov/programs/safety-programs/camutcd/camutcd-files	2014	PWPI060121-10

Title				Edition	Documer Number	-	
NOTE: *Available	online	under	Engineering	Documents	and	References	at:

NOTE: *Available online under Engineering Documents and References at: http://www.sandiego.gov/publicworks/edocref/index.shtml

*Electronic updates to the Standard Drawings may also be found in the link above.

ATTACHMENTS

ATTACHMENT A

PROJECT DESCRIPTION, SCOPE OF WORK, TECHNICAL SPECIFICATIONS, AND/OR BRIDGING DOCUMENTS

PROJECT DESCRIPTION, SCOPE OF WORK, TECHNICAL SPECIFICATIONS, AND/OR BRIDGING DOCUMENTS

1. SCOPE OF WORK SUMMARY:

Design-build of the Organics Processing Facility (OPF) Project located at Miramar Landfill, 5180 Convoy Street, San Diego, CA 92111 shall consist of relocation of the existing Miramar Greenery to the North Miramar Landfill and the East Mesa, and the development of new OPF infrastructure. The OPF Project shall include an intake structure with associated processing equipment, relocated and expanded covered aerated static pile compost (CASP) systems, conveyor systems, stormwater and wastewater (leachate) controls, and all associated infrastructure (roads, utilities, etc.).

The OPF Project shall be designed and constructed to conform with the Miramar Greenery's Compostable Materials Handling Facility Permit limits and all other applicable local, state, and federal requirements and permits. Appendices of Attachment A contain all details and requirements for the Project and this RFP.

In summary, the existing permitted capacity of 690 tons per day (tpd), types of allowable feedstocks, and the type of greenery materials produced, including compost, mulch, and dyed and un-dyed wood chips shall not change. The current facility CASP capacity is 40,000 tons per year (TPY). The OPF expansions shall provide an additional 87,000 tons per year of CASP system capacity, to 127,000 TPY. If selected, the additive alternate shall provide for additional CASP system capacity to process up to 251,850 TPY.

- **2.** The Work shall be performed in accordance with:
 - 2.1. The Work shall be performed in accordance with:
 - 1. The Request for Proposals and its included documents including those listed in Attachment A (Figures, Appendices, and Schedules), inclusive.
- 3. LOCATION OF WORK: The location of the Work is as follows:

See Appendix E - Location Map

City of San Diego Environmental Services Department

DESIGN-BUILD REQUEST FOR PROPOSALS

MIRAMAR ORGANICS PROCESSING FACILITY

FIGURES, APPENDICES, SCHEDULE

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Figure 1: Existing Site Conditions

Figure 2: Existing Site Drainage

— List of Appendices —

Appendix A: Acronyms

Appendix B: Scope of Work

Appendix C: Performance Specifications

Appendix D: Waste Delineation Study

Appendix E: Existing Load and Tonnage Data

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Appendix H: Existing Site Information and Features

H-1: Existing Landfill Gas Well and Header Pipe Locations

H-2: Existing Topography

H-3: Existing Utilities

H-4: Incoming Power Supply Configuration

Appendix I: General Waste Discharge Requirements for Composting Operations

— List of Schedules—

Schedule 1: Project Milestones

Figure 1 Existing Site Conditions

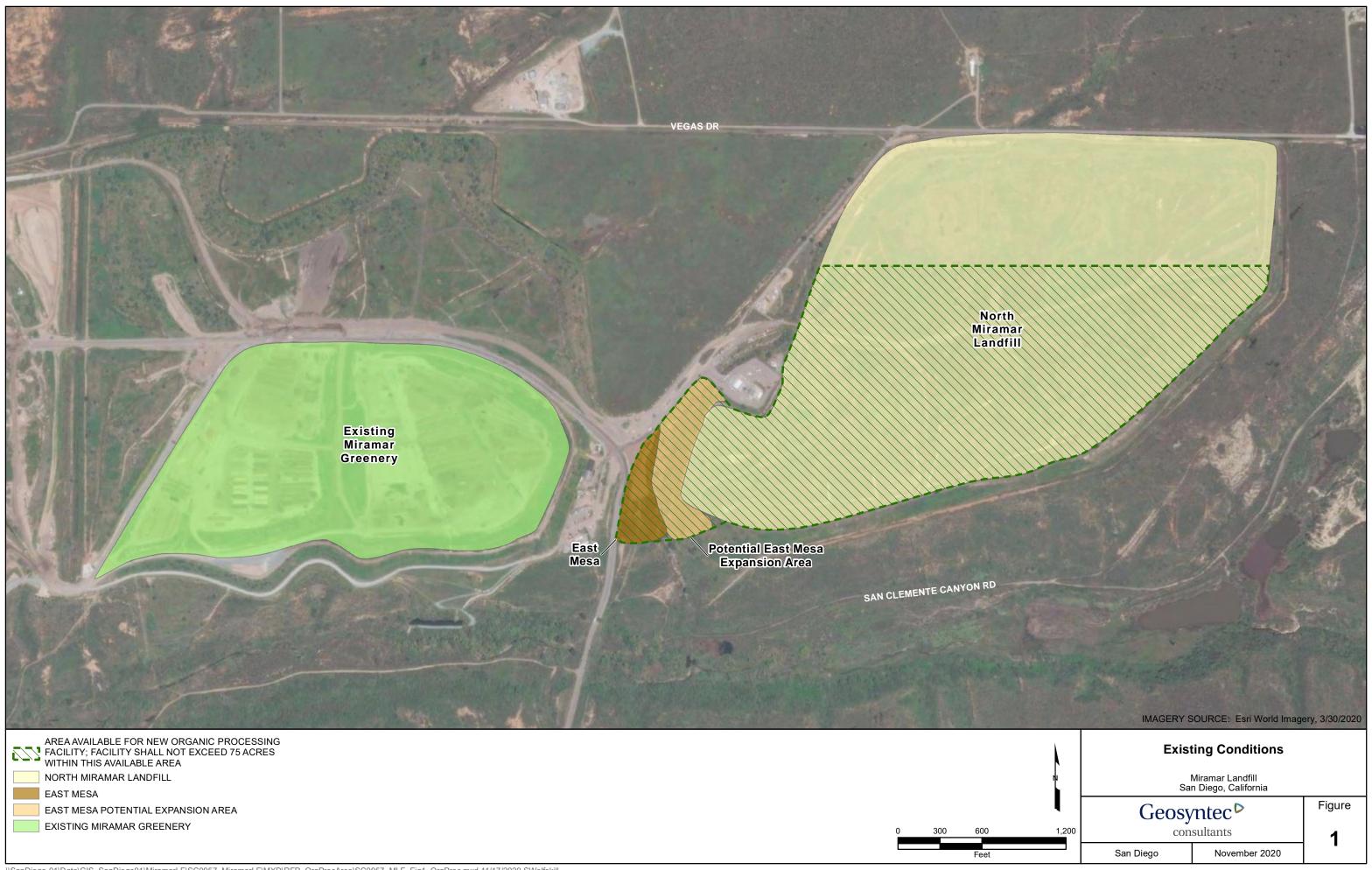
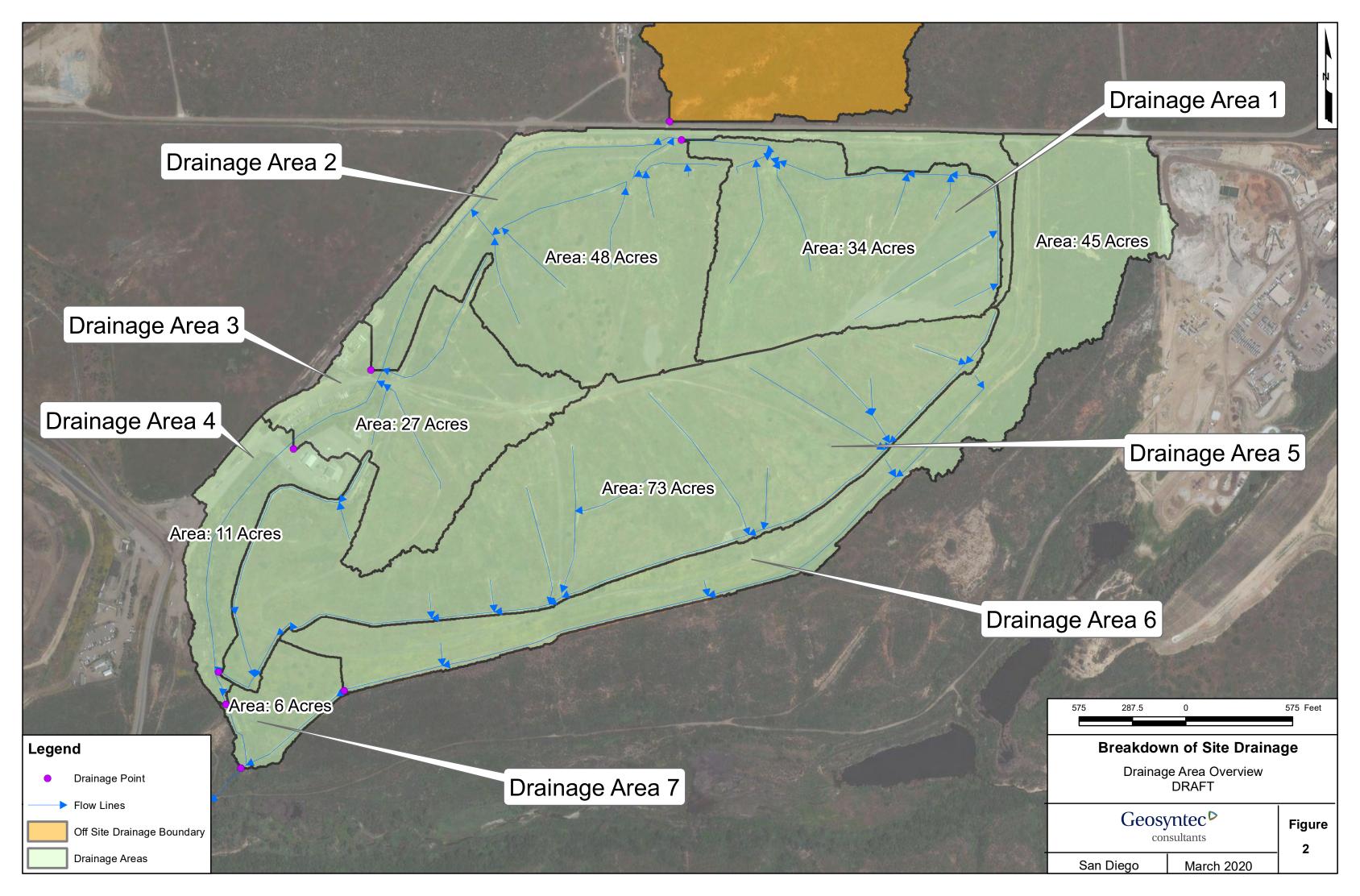


Figure 2 Existing Site Drainage



Appendix A Acronyms

MIRAMAR ORGANICS PROCESSING FACILITY

APPENDIX A: ACRONYMS

% percent

AB Assembly Bill

APCD Air Pollution Control District
BACT Best Available Control Technology
CADD computer aided drafting and design

Cal/OSHA California Occupational Safety and Health Administration
CalRecycle California Department of Resources Recycling and Recovery

CASP covered aerated static pile CCR California Code of Regulations

CEQA California Environmental Quality Act
CHSP Community Health and Safety Plan

cm/s centimeters per second COSD City of San Diego

CPR cardiopulmonary resuscitation CQA Construction Quality Assurance

cy cubic yard

DCN Design Change Notice DOD Department of Defense

ECM Environmental Compliance Manager

EIR Environmental Impact Report

ESD Environmental Services Department FAA Federal Aviation Administration

IGP Industrial General Permit LEA Local Enforcement Agency

LFG landfill gas

MCAS Marine Corps Air Station NCR non-conformance report

NOI Notice of Intent

O&M Operation and Maintenance OPF Organics Processing Facility PDF portable document format PEMB pre-engineered metal building

P&ID Process and Instrumentation Diagrams

PM Project Manager

psf pounds per square foot

QA/QC Quality Assurance/Quality Control

QMP Quality Management Plan

RCRA Resource Conservation and Recovery Act

RFP Request for Proposal

RWQCB Regional Water Quality Control Board

SB Senate Bill

MIRAMAR ORGANICS PROCESSING FACILITY

APPENDIX A: ACRONYMS

SDGE San Diego Gas and Electric

SDAPCD San Diego Air Pollution Control District

SWFP Solid Waste Facility Permit
 SWIS Solid Waste Information System
 SWPPP Stormwater Pollution Prevention Plan
 SWRCB State Water Resources Control Board

tpd tons per day tpy tons per year

USCC STA United States Compost Council Seal of Testing Assurance

WDR Waste Discharge Requirements

Appendix B Scope of Work

MIRAMAR ORGANICS PROCESSING FACILITY

APPENDIX B: DESIGN-BUILD WORK REQUIREMENTS

SCOPE OF WORK

Background, Goals, and Purpose

This appendix provides the scope of work for the Organics Processing Facility (OPF). A list of acronyms is provided in Appendix A. Performance specifications for the OPF are provided in Appendix C. The Design-Builder shall use both Appendix B and Appendix C in tandem when preparing their proposal.

- A. The City of San Diego (COSD) Environmental Services Department (ESD) requests professional Design-Build services in connection with the Request for Proposal (RFP). The Design-Builder shall design and construct an OPF (the Project) at North Miramar Landfill located at 5180 Convoy Street, San Diego, California 92111. The OPF project shall consist of an Intake Facility (building) and associated processing equipment, a new compost facility, a conveyor system, all stormwater and wastewater (leachate) facilities related to the OPF, and all associated infrastructure (roads, utilities, etc.).
- B. In the State of California, Senate Bill No. 1383 (SB 1383) established specified targets for reducing organic waste in landfills. The bill sets two waste diversion targets, a 50% reduction in the volume of statewide disposal of organic waste from waste volumes recorded in 2014 by the year 2020 and a 75% reduction by the year 2025.
- C. State of California Assembly Bill (AB) 1826 mandates commercial organics recycling. The bill required commercial businesses to have an organics recycling program in place by 2017 if 4 or more cubic yards of organic waste per week were generated and by 2019 if 4 or more cubic yards of solid waste per week were generated. As of September 15, 2020, commercial businesses that generate 2 or more cubic yards of solid waste per week are required to have an organics recycling program.
- D. The COSD operates the Miramar Greenery (Greenery), a Tier 2 composting operation, which is currently located on a portion of the Miramar Landfill known as West Miramar Phase I. The COSD has identified the need to relocate the current Greenery, and develop a new OPF, including an Intake Facility, waste processing equipment, and compost pad, along with associated conveyors and stormwater and wastewater (leachate) facilities, at the North

¹ Relocate refers to moving the existing composting equipment from the current Greenery to the new location at North Miramar Landfill in such a way as to minimize any operational delays and/or shutdowns in the compost process, to the extent practicable.

Miramar Landfill and East Mesa (see Figure 1) to accommodate both the existing throughput and the different waste streams anticipated from new collection programs developed under SB 1383 and AB 1826. The OPF shall also serve to comply with the State Water Resources Control Board (SWRCB) Order WQ 2020-0012-DWQ General Waste Discharge Requirements for Composting Operations (Compost WDR). The existing permitted throughput, tons per day (tpd), allowable feedstocks, and the type of greenery materials produced, including compost, mulch, and dyed and un-dyed wood chips, as stipulated in the Compostable Materials Handling Facility Permit (see Section E below) will not change.

- E. The OPF will operate under the current Compostable Materials Handling Facility Permit (Solid Waste Information System [SWIS] #37-AB-0003, Miramar Greenery, 2019, included in Appendix E), which allows for handling and processing a maximum of 690 tpd of compostable materials. The maximum permitted daily tonnage of compostable materials shall remain the same.
- F. The Project anticipates building the OPF, including an Intake Facility and associated processing equipment, conveyors, composting pad, and stormwater and wastewater (leachate) infrastructures, and relocating the current Greenery operations and the current covered aerated static pile (CASP) capabilities to the North Miramar Landfill (approximately 170 acres, overlying landfilled waste materials) and the area known as the East Mesa (approximately 7 acres with potential for 8 acres of expansion, overlying native soil). Figure 1 identifies the area available for the Project; however, the total footprint of the OPF shall not exceed 75 acres. The OPF shall include an Intake Facility for material unloading, for feedstock material handling and processing, and for chipping and grinding the feedstock. The Intake Facility shall be located on the East Mesa and shall be constructed with four walls, a roof, and reinforced concrete floor. Each of the four walls shall be able to be opened a maximum of 75% through the use of roll-up doors or hanger-style (rolling) doors with widths capable of allowing commercial vehicles and/or heavy equipment to pass unimpeded. The Intake Facility shall have as much natural lighting as possible through the use of skylights or solar tubes in the roof or through the use of translucent panels in the roof of a pre-engineered metal building (PEMB). The roof shall also be designed to accommodate future solar panels (not included in this RFP, roof design to accommodate a future solar loading of 5 pounds per square foot [psf]), an indoor and/or outdoor odor suppression system, as applicable, and life safety appurtenances.

In addition to the Intake Facility located on the East Mesa, the OPF shall also include, on the North Miramar Landfill, an active compost area (compost pad), a curing and finished product processing area, a finished product storage area, a sales area(s), associated stormwater management improvements, associated wastewater (leachate) management facilities, and a designated area for chipping and grinding unpainted/untreated wood waste to use as the chipping operation feedstock to make dyed and un-dyed wood chips. The COSD desires to use their existing GORETM system, consisting of 24, 100-foot long CASPs and associated equipment, augmented with additional covered positive aeration type composting equipment/systems necessary to meet the permitted throughput and final product specification.

The existing and new composting equipment/systems shall be located on the compost pad. The COSD prefers to maximize the use of conveyor systems for transport of material from the various processing areas to the compost pad. The completed Project shall meet or exceed the requirements set forth in the RFP.

G. The COSD desires the new OPF to make use of their existing 24, 100-foot long GORETM CASPs, to be modular, to reduce maintenance costs, and to enhance stormwater quality. The COSD desires to separate the Project into an INITIAL Project and a MAXIMUM TONNAGE Project. The MAXIMUM TONNAGE Project includes everything that allows the COSD to process the maximum daily compost capacity. The INITIAL Project includes all the infrastructure for the MAXIMUM TONNAGE Project, relocation of the existing CASPs, and new composting equipment/systems necessary to process an interim daily compost capacity. The AWARDED Project may be the MAXIMUM TONNAGE Project, the INITIAL Project, or the INITIAL Project with additional add-on items. The COSD will choose which, if any, of the additional add-on items to include in the INITIAL Project and make part of the contract.

Currently, the existing Greenery processes approximately 40,000 tons per year (tpy) of compost material using the 24, 100-foot long CASPs. The INITIAL Project shall increase the current compost processing capacity of the existing Greenery by approximately 87,000 tpy to a total of approximately 127,000 tpy.

The MAXIMUM TONNAGE Project shall allow for handling and processing the maximum permitted daily tonnage of compostable materials for the OPF which is 690 tpd, or 251,850 tpy. The MAXIMUM TONNAGE Project shall increase the compost processing capacity of the INITIAL Project by approximately 124,850 tpy to a total of approximately 251,850 tpy.

The INITIAL Project shall include all infrastructure required for the MAXIMUM TONNAGE Project, including the Intake Facility; utilities; landfill gas (LFG) well and conveyance piping relocations, as necessary; compost pad; curing and finished product processing area; finished product storage area; sales area(s); associated stormwater management improvements; associated wastewater (leachate) management facilities; and a designated area for chipping and grinding unpainted/untreated wood waste to make dyed and un-dyed wood chips.

The INITIAL Project shall also include relocation of the existing 24, 100-foot long GORETM CASPs and associated equipment; additional covered positive aeration type composting equipment/systems necessary to meet the total throughput as indicated above; concrete paving on the compost pad for the existing 24, 100-foot long GORETM CASPs and additional covered positive aeration type composting equipment/systems necessary to achieve the compost processing throughput as indicated above, each with an integrated drainage system, dedicated positive air injection system that is protected from loading and unloading associated activities, and dedicated permanent walls with a pathway between each unit to facilitate operations and monitoring; a covered conveyor system from the Intake Facility to the compost pad; and a

covered conveyor system on the compost pad that will allow for moving compost to minimize rehandling distances.

The MAXIMUM TONNAGE Project shall include the INITIAL Project (which shall be capable of processing 127,000 tpy of compost) plus additional covered positive aeration type composting equipment/systems to increase the compost processing capacity of the completed INITIAL Project to a total of 251,850 tpy of compost, each with an integrated drainage system, dedicated positive air injection system that is protected from loading and unloading associated activities, and dedicated permanent walls with a pathway between each unit to facilitate operations and monitoring; and additional covered conveyor equipment on the compost pad that will allow for moving compost to minimize rehandling distances.

The bidder is free to propose equipment that will achieve the processing and performance specifications outlined in the RFP, the current Compostable Materials Handling Facility Permit, and the Compost WDR.

- H. The COSD is requesting that the MAXIMUM TONNAGE Project described above be planned and costed by the Design-Builder according to the bid sheet to be responsive to this RFP. However, the Design-Builder is welcome to provide an alternate proposal, in addition to the Project described above, keeping in mind the COSD's desire to make use of their existing 24, 100-foot long GORETM CASPs, to be modular, to reduce maintenance costs, and to enhance stormwater quality.
- I. The Design-Builder shall provide a complete breakout of pricing for both the requested design stated above and for the additive alternate proposal that is submitted. Any proposal that City determines to be materially unbalanced as to prices for the basic contract or for the additive alternate will be considered non-responsive. An unbalanced proposal is one that is based on costs for some work which are significantly understated while costs for other work are significantly overstated.

Work Elements

- A. The Design-Builder agrees to prepare and submit a Proposal for the Project in conformance with the terms of the RFP and with requirements, terms, conditions, rules, and regulations of the solicitation process, identified in RFP documents. The Design-Builder agrees to execute the COSD's contract for the design and construction of the Project in the event that the COSD selects the Design-Builder's Proposal.
- B. The Design-Builder agrees that following selection by COSD, they shall design the Project. The Project shall be designed and delivered in the traditional 30-60-90-100 percent (%) level design submittals. The Design-Builder shall work with the COSD during the review and revision process of each design submittal and address and incorporate changes to the design, as appropriate, following COSD review processes of each submittal.

- C. The Design-Builder shall identify in their proposal and perform any necessary Project site investigations required for design to confirm the existing conditions of the North Miramar landfill and East Mesa, including foundation conditions to support OPF elements and comply with regulations, LFG well and conveyance piping locations, utility locations, and/or geotechnical conditions of the existing landfill cover. A waste delineation study was conducted to evaluate the western limit of North Miramar landfill waste. The report of this study is provided in Appendix D. Information related to existing LFG well and header pipe locations, existing topography of the North Miramar landfill, existing utilities, and incoming power supply configuration is included in Appendix H. Figure 2 provides a breakdown of Site Drainage for North Miramar landfill.
- D. The Design-Builder shall design all necessary demolition and grading plans for the Project, retaining existing LFG wells and conveyance piping. If modifications are required to the existing LFG wells and conveyance piping, the Design-Builder shall be responsible for the changes. Proposed changes to LFG well and conveyance piping locations shall be approved by the COSD and be permitted by the San Diego Air Pollution Control District (APCD) and Local Enforcement Agency (LEA). The Design-Builder shall minimize disturbance and/or relocation of LFG system components. The existing LFG system plans are included in this RFP as Appendix H-1.
- E. The Design-Builder shall design all OPF systems including the Intake Facility (which includes equipment and areas for material unloading, feedstock material processing, and chipping and grinding), active compost pad, curing and finished product processing area, sales and finished product storage and loading area(s), material transport systems (conveyors), drainage and stormwater management improvements, wastewater (leachate) management facilities, and OPF controls. All systems shall be designed and constructed in accordance with the Resource Conservation and Recovery Act (RCRA), California Code of Regulations (CCR) Title 14, CCR Title 27, Compost WDR, site-specific Stormwater WDR, Solid Waste Facility Permit (SWFP), Compostable Materials Handling Facility Permit, LEA, all applicable building codes, all Federal, State, and local regulations for safe and proper handling of solid waste, and current/proposed/forthcoming changes associated with SB 1383 and AB 1826. The Design-Builder shall be responsible for all coordination and planning necessary for all utility work required for the Project.

a. Material Unloading

i. The Design-Builder shall provide with the proposal a narrative and process flow diagram describing operations and activities for managing incoming materials. The COSD seeks a design that minimizes material handling by laborers. The design shall attempt to minimize number of laborers required for unloading operations and activities.

- ii. The Design-Builder shall design any necessary stormwater and wastewater (leachate) management controls associated with the material unloading area.
- iii. The Design-Builder shall design site entrance/exit, additional roads (if necessary), traffic patterns and controls, queuing capacity, unloading order and operations, and queuing location(s).

b. Intake Facility

- i. The Intake Facility shall be constructed with four walls, reinforced concrete floor, and a roof. Each of the four walls shall be able to be opened a maximum of 75% through the use of roll-up doors or hanger-style (rolling) doors, with sufficient room for commercial vehicles and/or heavy equipment to pass unimpeded. The reinforced concrete floor shall be of sufficient strength to withstand intended use of heavy equipment and material handling, including push walls where appropriate to aid in loading of processing equipment and steel rails embedded in concrete or steel floors to increase durability of floor in areas where materials will be scraped off floor. The Intake Facility shall have as much natural lighting as possible through the use of skylights or solar tubes in the roof or through the use of translucent panels in the roof. The roof shall also be designed to accommodate future solar panels (not included in this RFP, design to accommodate future loading of 5 psf for solar system), an indoor and/or outdoor odor suppression system, as applicable, and life safety appurtenances. The Intake Facility shall contain the material unloading area, feedstock material processing area, and chipping and grinding area. The Intake Facility shall have odor monitoring and mitigation measure(s) incorporated into the design as per applicable regulations.
- ii. The Intake Facility shall be designed and constructed to manage 690 tpd of incoming green, wood, and food waste materials and include an additional 20% of floor space, available for additional future equipment that may be necessary based on how the incoming waste characteristics may change over time.
- iii. The Intake Facility shall include air handling and treatment systems (e.g., building ventilation, any capture/odor mitigation systems) and equipment, along with life safety appurtenances, compliant with building codes and all local jurisdictional requirements.
- iv. The Design-Builder shall provide with the proposal a narrative of the Intake Facility operations including a description of how material is handled, equipment selection, equipment ingress and egress, staffing requirements, vehicle queuing, vehicle directional flow, and how the design will minimize the interaction of heavy equipment with unloading vehicles. The Design-Builder

- shall also provide with the proposal a narrative of how material grinding will be done safely and away from customer areas. The Intake Facility shall have adequate space for material sorting and contaminant removal (including, but not limited to, picking station, elevated sort line, de-packaging unit, etc.) up to the maximum permitted daily tonnage of 690 tons.
- v. The Design-Builder shall prepare Permit and Construction Drawings for the Intake Facility layout including utilities, stormwater management features, wastewater (leachate) management features, traffic ingress/egress, intake locations, parking and surfacing, equipment location and sequencing, and material conveyance and storage. The facility shall comply with state and federal sustainability and low impact design requirements.
- vi. The Design-Builder shall design the material processing operations (including equipment layout, contaminant removal, and sorting). This includes selection of processing equipment. The COSD has a list of equipment that is currently owned or leased for the existing Greenery, which the Design-Builder may utilize in the final design. This list has been provided with the RFP in Appendix F. The Design-Builder shall identify equipment that will supplement the existing equipment within the Intake Facility and provide a detailed description of each item's use, location in the Intake Facility, electrical requirements, and maintenance requirements. Any new equipment in the Intake Facility shall be selected to meet the Project requirements and needs (e.g., processing volumes and incoming material types). The Design-Builder shall select equipment that requires minimal maintenance and minimal (or no) manpower for operation.
- vii. The Design-Builder shall understand that some operations could fall under the existing Miramar Landfill Industrial General Permit (IGP) (e.g., clean, uncontaminated wood) and provide with the proposal a narrative for how these materials will be handled. It is the Design-Builder's responsibility to differentiate between operations that fall under the IGP and operations that fall under the Compost WDR.
- viii. The Design-Builder shall provide a written Contingency Plan for any potential system failures that would impede processing of incoming material for more than 24 hours and up to 72 hours. This may include, but is not limited to, backup equipment, manual labor requirements, and/or additional storage for incoming material.
- ix. The Design-Builder shall provide with the proposal a narrative of contaminant removal and sorting activities and how they might change over time as incoming material volumes increase.

- x. The Design-Builder shall layout all equipment in the Intake Facility in accordance with California Occupational Safety and Health Administration (Cal/OSHA) and other applicable standards to address such items as, but not limited to, proper aisle width, equipment access, equipment servicing, and fire safety systems. The layout shall include the 20% additional space allocated for future equipment.
- xi. The Design-Builder shall be responsible for all coordination and planning.
- xii. The Design-Builder shall provide narratives (with the proposal) and prepare Permit and Construction Drawings (during the design phase) for other Intake Facility features including:
 - 1. Electrical and mechanical systems.
 - 2. Air handling and treatment systems.
 - 3. Odor monitoring and mitigation measure(s), as required by applicable regulations.
 - 4. Structural components.
 - 5. Stormwater and wastewater (leachate) controls.
 - 6. Permanent stormwater plans and reports as applicable.
 - 7. Vector controls.
 - 8. Life-safety features (fire alarms, methane mitigation, etc.).
 - 9. Local utility (San Diego Gas and Electric [SDGE]) electrical tie-in.
 - 10. Potable water tie-ins.
 - 11. Recycled (purple pipe) water tie-in and system.
 - 12. Applicable state and local building codes and permitting requirements.
- xiii. The Design-Builder shall contract with independent third parties for proper testing of equipment and systems.

c. Compost Pad

i. The Design-Builder shall provide with the proposal a narrative and process flow diagrams of compost pad operations for the MAXIMUM TONNAGE Project

including how material is handled, vehicle and equipment access, equipment selection, and staffing requirements. The proposal shall identify where the components for the INITIAL Project shall be located and how the components of the MAXIMUM TONNAGE Project shall be phased in. The Design-Builder shall provide a narrative of the various staffing duties that shall be required at the compost pad.

- ii. The Design-Builder shall provide with the proposal a narrative and diagrams of the proposed design integration with existing LFG wells and conveyance piping. At a minimum, the Design-Builder shall describe and illustrate continued access for LFG system operation, maintenance, and monitoring. Existing LFG system plans are included in Appendix H-1.
- iii. The COSD has a list of equipment that is currently owned or leased for the existing Greenery and is provided with the RFP in Appendix F. The COSD desires to make use of their existing 24 GORETM CASPs, grinders, windrow turners, trommel screens, mobile material handling equipment (e.g., loaders), and appurtenant equipment. The Design-Builder shall provide with the proposal a narrative as to how and when in the course of the construction phase the existing 24 GORETM CASPs will be relocated to the North Miramar Landfill, recognizing that these units will be in use during the project construction and may not all be idle at the same time to move concurrently. The COSD desires to increase the compost processing capacity from the current 40,000 tpy to 127,000 tpy for the INITIAL Project by adding additional covered aeration type composting equipment/systems and appurtenant equipment as described above. The MAXIMUM TONNAGE Project shall increase the compost processing capacity from 127,000 tpy to 251,850 tpy through future add-on phases. The Design-Builder shall provide a detailed description of electrical requirements and maintenance requirements for the MAXIMUM TONNAGE Project. The Design-Builder must bid on this scenario for the bid to be considered responsive. The Design-Builder may also provide an alternate proposal keeping in mind the COSD's desire to make use of their existing 24 GORETM CASPs and associated equipment, to be modular, to reduce maintenance costs, and to enhance stormwater quality. system/equipment for an alternate proposal shall be selected to meet the Project requirements and needs and shall be described fully in the alternate proposal. Additional composting equipment shall be a covered positive aeration type system. The Design-Builder shall select equipment that minimizes material handling, requires minimal maintenance, and minimizes contact between feedstocks and OPF staff personnel. The Design-Builder shall include a description of any licenses that may be required for staff to operate any of the equipment (for the stated Project as well as any alternate proposal). The positive

- aeration type system shall use Best Available Control Technology (BACT) and have appropriate emission certifications or performance demonstration information similar to those stipulated by San Joaquin Valley APCD Rule 4566.
- iv. The Design-Builder shall provide (with the proposal) a narrative of the compost pad construction and working surface. The Design-Builder shall prepare Permit and Design Drawings (during the design phase) detailing the working surface, in accordance with the Compost WDR and CCR Title 27 regulations. The compost pad is considered a working surface under the Compost WDR. Under the Compost WDR, the working surface must be designed with a hydraulic conductivity of 1 x 10⁻⁵ centimeters per second (cm/s) or less and be constructed with one of the following liner systems: minimum one-foot compacted soil; asphaltic concrete or Portland cement; or an equivalent engineered alternative specified in a notice of intent (NOI) and/or a technical report and approved by the Regional Water Quality Control Board (RWQCB). The working surface shall be compatible with the landfill cover and underlying landfill waste that will settle over time. COSD desires reinforced concrete paving on the compost pad for the covered aeration type composting equipment/systems, each with an integrated drainage system, dedicated positive air injection system that is protected from loading and unloading associated activities, and dedicated permanent walls with a pathway between each unit to facilitate operations and monitoring. The Design-Builder must bid on this scenario for the bid to be considered responsive. The Design-Builder may also provide an alternate proposal keeping in mind the COSD's desire to make use of their existing 24 GORETM CASPs and associated equipment, to be modular, to reduce maintenance costs, and to enhance stormwater quality. Any new system/equipment for an alternate proposal that may modify the compost pad working surface shall be selected to meet the Project requirements and needs and shall be described fully in the alternate proposal.
- v. The Design-Builder shall provide (with the proposal) the location of the proposed compost pad on North Miramar Landfill and the layout of the proposed compost pad for the MAXIMUM TONNAGE Project, identifying the location of the INITIAL Project components. The proposal shall identify how the components of the MAXIMUM TONNAGE Project shall be phased in. The Design-Builder shall prepare Permit and Construction Drawings (during the design phase) detailing the layout of the compost pad. The layout shall include, but is not limited to, the size (width, length, and height) and space requirements for equipment and management of the MAXIMUM TONNAGE Project consisting of the total number of covered aeration type composting equipment/systems deemed necessary by the Design Builder to produce 251,850 tpy of compost, each with an integrated drainage system, dedicated

positive air injection system that is protected from loading and unloading associated activities, dedicated permanent walls with a pathway between each unit to facilitate operations and monitoring, and covered conveyor equipment (described below). The compost pad shall be sized to meet the OPF demands (e.g., permitted tonnage of incoming compostable materials and durations of active composting and curing). The Design-Builder shall provide supporting documentation and calculations that the MAXIMUM TONNAGE Project will support the OPF demands. These may include, but are not limited to, the following considerations: volume capacity of each covered aeration type composting equipment/systems, incoming feedstock properties (weight, density, volume), days of operation per week, active compost curing cycle duration, volume of feedstocks per active compost curing cycle, and buffer around each pile for equipment/access. The Design-Builder must provide information on this scenario for the bid to be considered responsive. The Design-Builder may also provide an alternate proposal as previously stated; however, the same amount of detail must be provided for the alternate proposal.

- vi. The Design-Builder shall provide narratives (with the proposal) and prepare Permit and Construction Drawings (during the design phase) for other compost pad elements for the MAXIMUM TONNAGE Project including:
 - 1. Water delivery system. COSD desires to preferentially use wastewater (leachate), followed by stormwater collected on site, and recycled (purple pipe) water, for composting system operations, where permitted.
 - 2. Electrical and mechanical systems.
 - 3. Electrical delivery.
 - 4. Stormwater and wastewater (leachate) management controls. The design shall address potential ways to minimize leachate and contact water (i.e., stormwater that comes in contact with waste and would need to be managed separately).
 - 5. Traffic patterns, access, ingress, and egress.
 - 6. Vector controls.
 - 7. Odor monitoring and mitigation measure(s), as required by applicable regulations.

d. Composting

i. The Design-Builder shall provide with the proposal a narrative and process flow

diagram describing operations and activities for processing materials. Material requiring size reduction is processed using a grinder. Material requiring depackaging is processed using specialized equipment. The Design-Builder shall determine any non-potable water requirements to control dust during the grinding process.

- ii. Once material has been unloaded, ground, processed to remove contaminants, and conveyed to the compost pad, the need to use stockpiles prior to adding to the CASP and/or covered aeration type composting equipment/systems shall be minimized.
- iii. The Design-Builder shall provide with the proposal a narrative and process flow diagram describing operations and activities for any materials requiring special handling, such as food waste and grease.
- iv. The Design-Builder shall design any necessary stormwater and wastewater (leachate) management controls associated with the compost processing area. The stormwater and wastewater (leachate) management control systems will be independent systems.
- e. Screening, Curing and Finished Product Processing Area
 - The Design-Builder shall provide with the proposal a narrative and process flow diagram describing operations and activities for managing the screening (for final product sizing), curing process, and management and storage of finished compost.
 - ii. The Design-Builder shall design any necessary stormwater and wastewater (leachate) management controls associated with the curing and finished product processing area. The stormwater and wastewater (leachate) management control systems will be independent systems.
- f. Sales and Finished Product Storage and Load-Out Area
 - i. The Design-Builder shall prepare Permit and Construction Drawings for any working surfaces or foundations required for an area or customer service kiosk structure (one- to two-person occupancy) for questions regarding sales of finished product (cured compost, mulch, and wood chips). The kiosk structure shall be a trailer on wheels. The Design-Builder shall design any structural elements for the kiosk trailer to be compliant with CCR Title 27.
 - ii. The Design-Builder shall design two separate finished product working areas, one for storage of finished product and one for customers to load purchased finished product (loading area). The two areas shall be in near vicinity to

minimize transport, but they shall be separate areas. The final product area may be excluded from the working surface hydraulic conductivity requirements under the following conditions: the area is isolated in a dedicated area away from the active and curing compost; the area is clearly marked as "final product;" and the area is identified in the NOI and technical report and approved by the RWQCB. If the final product area is excluded from the working surface, the Design-Builder shall still be responsible for stormwater management control in this area. The finished product working areas shall be isolated (either by grade or other design element) from raw/unprocessed material areas.

- iii. The Design-Builder shall provide a narrative (in the proposal) and prepare Permit and Construction Drawings (during the design phase) for ingress/egress to accommodate access by the public (e.g., separate from landfill and compost operations) to the finished product loading area.
- iv. The Design-Builder shall provide (in the proposal) and prepare Permit and Construction Drawings (during the design phase) for the layout of the finished product storage and load-out area. The Design-Builder shall determine the maximum capacity of the area for finished compost and mulches based on seasonal highs. The current Greenery usually accumulates more finished product during the winter months. The Design-Builder shall consider a modular or moveable finished product storage system for flexibility in the number of products available at any one time.
- v. The Design-Builder shall prepare narratives (in the proposal) and prepare Permit and Construction Drawings (during the design phase) for other storage and load-out area elements and/or systems deemed necessary for the Project including, but not limited to:
 - 1. Electrical, telecom, and mechanical systems.
 - 2. Stormwater and wastewater (leachate) management controls.
 - 3. Traffic patterns, access, ingress, and egress.
 - 4. Vector controls.
 - 5. Signage.

g. Material Transport Systems

i. The Design-Builder shall provide in the proposal narratives describing the process flow for all the various systems (material unloading, Intake Facility, contamination removal, compost pad, chipping and grinding, storage, and load

out).

- ii. The Design-Builder shall provide a narrative and layout (in the proposal) and prepare Permit and Construction Drawings (during the design phase) for a covered conveyor system that extends from the Intake Facility to the compost pad, and a covered conveyor system on the compost pad that will allow for moving compost to the CASPs and/or covered aeration type composting equipment/systems to minimize rehandling distances. Processed feedstocks from within the intake structure shall travel via covered conveyor to a location proximate to the compost pad for minimal transport to CASPs and/or covered aeration type composting equipment/systems. The length of covered conveyor for the INITIAL and MAXIMUM TONNAGE Project shall be shown on the proposed layout. The COSD prefers to maximize the use of covered conveyor systems for transport of materials.
- iii. The Design-Builder shall design any necessary stormwater controls for the material transport systems and include these in the narratives, calculations, and Permit and Construction Drawings.
- h. Drainage Design, Wastewater (Leachate) Management, and Stormwater Management
 - i. The Design-Builder shall develop a Wastewater (Leachate) Management Plan for the Project. The Design-Builder shall design the wastewater (leachate) management at the site so that it is entirely separate from the stormwater. The Design-Builder shall provide a narrative of the design (in the proposal) and prepare Permit and Construction Drawings (during the design phase) for the wastewater (leachate) management system.
 - ii. The Design-Builder shall develop a Stormwater Management Plan for the Project in accordance with requirements in the Compost WDR. The Design-Builder shall provide a narrative of the design (in the proposal) and prepare Permit and Construction Drawings (during the design phase) that describe how stormwater will be managed separately from wastewater (leachate) that may be produced from the composting operations. The OPF Project shall be designed to minimize or eliminate contact water (i.e., wastewater [leachate] or stormwater that comes in contact with unprocessed materials). Contact water shall be managed in compliance with the Compost WDR.
 - iii. The Design-Builder shall design a separate stormwater conveyance system, including a detention basin and conveyance features, for the MAXIMUM TONNAGE Project. The basin shall be designed and constructed to comply with CCR Title 27 and the IGP.

- iv. The Design-Builder shall design stormwater features and infrastructure for the MAXIMUM TONNAGE Project. This shall include specifications for layout and capacity of each feature. The Design-Builder shall provide supporting hydraulic and hydrology calculations for design of the features. The Design-Builder shall include explanation and assumptions for the calculations performed.
- v. The Design-Builder shall provide with the proposal the main drainage and stormwater management system(s) (e.g., detention basin, conveyance system, etc.) for the MAXIMUM TONNAGE Project on the North Miramar Landfill layout.

i. OPF Facility Controls

The Design-Builder shall prepare and implement Plans for any temporary and long-term controls/protocols for the Project that could include, but are not limited to, dust control, fire control, traffic control, odor control, litter control, noise control, vector control, and pathogen control.

- j. Power Supply and Energy Use Plan
 - i. The Design-Builder shall prepare and submit, for the COSD's review and comment, an updated draft Power Supply and Energy Use Plan for the MAXIMUM TONNAGE Project with the 60% design deliverable. After addressing the COSD's comments, the Design-Builder shall submit a final Power Supply and Energy Use Plan (in both hard copy and in digital portable document format [PDF]) as an Operational Readiness Condition of this Design-Build Contract.
 - ii. The Power Supply and Energy Use Plan shall provide an assessment of the total connected power load for the MAXIMUM TONNAGE Project and the total maximum duty load for the MAXIMUM TONNAGE Project. The Power Supply and Energy Use Plan shall describe all emergency standby power capabilities that have been included in the MAXIMUM TONNAGE Project. The Plan shall also include a determination back-up power required for life-safety items. The Design-Builder shall include all necessary life safety elements required by the MAXIMUM TONNAGE Project.
- F. The Design-Builder shall be responsible for preparing the OPF Technical Report that will be submitted to the RWQCB for their review and approval prior to commencing operations. The OPF Technical Report will provide details on the design and operation of the OPF. It will also include, as an attachment, a Water and Wastewater Management Plan that will describe how wastewater will be managed to prevent discharge. The Design-Builder shall prepare a draft

- report for submittal to the COSD within 40 days of final design submittal and shall incorporate any comments from the COSD. The COSD will submit the final report, along with the NOI, to the RWQCB and the COSD will be responsible for coordinating and communicating with the RWQCB. The Design-Builder shall support the COSD by responding to questions or providing additional information, as requested by the COSD, within 3-5 business days.
- G. The Design-Builder shall design and construct the Project to be compliant with all applicable regulatory laws and regulations, including RCRA, CCR Title 14, CCR Title 27, Compost WDR, IGP, SWFP, San Diego APCD (SDAPCD), CalRecycle, Compostable Materials Handling Facility Permit, LEA, all applicable building codes, all Federal, State, and local regulations for safe and proper handling of solid waste, and current/proposed/forthcoming changes associated with SB 1383 and AB 1826.
 - a. The Design-Builder shall prepare narratives for this proposal describing approach to and compliance with the regulatory requirements for this project and demonstrate knowledge and experience with the regulations. The COSD is interested in Design-Builder approaches and methodologies that will provide operational flexibility to accommodate future regulatory changes, water reuse and conservation, increased awareness of benefits to the COSD related to positive public affairs and relations, energy independence, site safety for staff and users, potential growth/reduction and/or change in input materials, processing equipment optimization and automation, and other creative and innovative ideas related to the future of waste processing.
 - b. The COSD will lead the regulatory involvement and communicate to the Design-Builder of any potential discrepancies in the design with regulatory statutes. A list of applicable regulations/regulatory agencies has been provided with the RFP (Appendix C Performance Specifications). This is not an all-inclusive list and the Design-Builder shall comply with applicable regulations. The Design-Builder shall design the OPF following careful review and consideration of all applicable regulatory statutes. The Design-Builder shall incorporate and revise the design of the Project should regulatory agencies have any input, comments, or required revisions following review. The Design-Builder shall work with the COSD and the regulatory agencies to achieve an approved compliant final design of the Project prior to commencing construction.
- H. The Design-Builder shall provide with the proposal a narrative and timeline on how the operations at the existing Greenery will be transitioned to the new OPF. The Design-Builder shall be responsible for relocating stationary equipment; the COSD will be responsible for relocating the wheeled and tracked equipment.

General Design Build Requirements

Management and Coordination

The Design-Builder shall provide an overall Project Manager (PM) to serve as the point of contact overseeing the design-build team. The Design-Builder shall also designate a design lead and a

construction lead (Site Manager/Construction Manager) that shall be available to the COSD to answer specific design and/or construction related questions.

- The PM, or, at times, their designate, shall facilitate communication between the COSD and the Design-Build team, schedule and lead meetings, prepare meeting minutes, and manage the overall project schedule and budget. The proposal shall describe the PM's experience and qualifications to manage projects of this nature and size, as well as the PM's experience in managing cost-loaded critical path method schedules.
- The design lead shall be currently registered in California as a Professional Engineer or Architect and shall be responsible for the design (i.e., engineer of record or architect of record). The proposal shall describe the experience and qualifications of the design lead, specifically with projects related to waste/recycling facilities of this nature and size.
- The Site Manager/Construction Manager shall have the necessary registrations and/or certifications and shall be responsible for all the work conducted to construct the OPF. The proposal shall describe the experience and qualifications of the Site Manager/Construction Manager, specifically with projects related to waste/recycling facilities of this nature and size. The proposal shall state expected time on site during the construction effort and whether the Site Manager/Construction Manager will have additional responsibilities, such as Site Safety and Health Manager, Quality Control/Quality Assurance (QA/QC) Manager, Environmental Compliance Manager (ECM).
- The Design-Builder shall be responsible for identifying a Site Safety and Health Manager, QA/QC Manager and ECM in the proposal. The experience and qualifications of each shall be described in the proposal, as well as the expected time on site for each during the construction effort. Responsibilities of these managers are found in later sections.

Project Schedule

All activities comprising the Design-Build Work shall be scheduled and monitored by use of a cost-loaded critical path method schedule (cost-loaded schedule) that sets forth all tasks and key subtasks in a logical and efficient work sequence that the Design-Builder intends to utilize in taking the INITIAL Project, and any additional add-on items requested by the COSD, from Design to Final Completion. At a minimum, the schedule shall show all key design milestones, design and permit application submittals to be reviewed by the COSD, reasonable COSD review periods, long-lead procurement items, and key mobilization and construction milestones. Each activity shall be shown with a stated number of days' duration and no activity shall be open-ended. The Design-Builder shall achieve construction completion of the INITIAL Project, and any additional add-on items requested by the COSD (AWARDED Project), by August 30, 2024, or earlier as set forth in the contract documents.

The Design-Builder shall provide weekly updates to the Project Schedule so that it is at all times

an accurate, reasonable and realistic representation of the Design-Builder's plans for the completion of the Design-Build Work in accordance with the requirements of this Design-Build Contract.

No later than 15 days following the occurrence of an unanticipated event or a Change Order, the Design-Builder shall submit a report containing an analysis of the effects of such events on the Project Schedule, including any new dates for work tasks and major subtasks. The Design-Builder shall present all mitigation measures that were considered to offset potential work delays; the mitigation measures being proposed for COSD review and acceptance; and a revised Project Schedule incorporating the Design-Builder's proposed changes.

Work Meetings and Reports

Meetings

The Design-Builder shall hold a design kickoff meeting prior to commencement of the Design-Build Work and a construction kickoff meeting prior to the commencement of Construction. The kickoff meetings will include key personnel for each phase from the Design-Builder, COSD personnel and their consultant. In each instance the Design-Builder shall prepare an agenda, which shall be reviewed with the COSD prior to the meeting, and shall preside at the meeting, contribute appropriate items for discussion, provide any data requested, record minutes to summarize significant proceedings and decisions, and distribute the minutes to all parties in attendance.

The Design-Builder shall hold weekly construction meetings in an on-site field office to be provided by the Design-Builder. The weekly meetings shall be attended by the Design-Builder representatives, subcontractor representatives, and COSD representatives. The Design-Builder shall prepare a weekly meeting agenda, including an updated project schedule, to be distributed to all attendees in hard copy format at the start of the meeting. Meeting minutes shall be recorded by the Design-Builder and then distributed to all attendees in digital format via email. Project progress meetings shall be held at a location designated by the Design-Builder with concurrence from COSD.

Reports:

Monthly progress reports required to be submitted by the Design-Builder shall include:

- A. Summary of Design-Build activities during the reporting month;
- B. Schedule of upcoming Design-Build activities;
- C. Listing of submittals delivered during the reporting month and their status;
- D. Listing of submittals scheduled for delivery the following month, and their submittal date;
- E. Design-Builder's verification that the record documents have been updated as appropriate;

- F. Summary of activities and submittals to COSD for obtaining Regulatory Approvals;
- G. Listing of issues needing resolution;
- H. Project Schedule updates;
- I. Design-Build Work completed during the most recently completed month and for the Project to date, and a comparison to the estimated cost; explanations for significant deviations from the cost-loaded schedule; corrective actions proposed by the Design-Builder to bring spending in-line with the cost-loaded schedule or proposals to COSD for an adjustment in the cost-loaded schedule or acceptance of the deviations; and
- J. Progress Payment Requests for this Design-Build Contract. The format of the Payment Request shall be matched with the description of work activities completed for the reporting month so that the COSD can easily relate the breakdown of the Payment Request to work progress on specific tasks and subtasks. Supporting documentation shall be provided so that the COSD can readily determine the basis for the requested payment amounts for Design-Build Work performed during the month by task or subtasks in terms of labor hours. Current retainage and total retainage to date shall be included in the monthly report.

The monthly progress report shall also provide a description of (1) any concerns or issues raised by the COSD or other parties regarding the Design-Build Work, and the Design-Builder's approach to promptly addressing and resolving such concerns or issues, and (2) during construction or other field activities, a section containing health and safety statistics and a description of any accidents or injuries that occurred and the follow up investigations as to cause and subsequent corrective actions to be taken or already implemented by the Design-Builder. The format of the monthly report shall be developed by the Design-Builder and approved by the COSD prior to the commencement of the Project.

Project Records

The Design-Builder, in connection with the Design-Build Work, shall maintain and provide 10 hard copies of the following records:

- A. Design documents. The Design-Builder shall retain copies of design documents including basis of design document(s), design calculations, reports, and plans for review and permitting.
- B. Permits. The Design-Builder shall retain copies of all permits related to the project.
- C. Record Drawings and Specifications: The Design-Builder shall:
 - a. Throughout the Design-Build Work, update the Design Documents (with respect to the drawings, such update shall be in hard copy and computer aided design and drafting [CADD] or other electronic format reasonably acceptable to the COSD), including

- approved shop drawings that are available from Subcontractors in CADD format, so as to produce accurate and complete record documents for the Project.
- b. As requested from time to time during the Design-Build Work, make available such record drawings and specifications to the COSD for review to permit the COSD to monitor the Design-Builder's compliance with the requirements of this Section.
- c. Provide (in a format specified by the COSD) the completed record drawings and specifications to the COSD as a condition to Final Completion. The record drawings shall not be deemed to have satisfied the condition to Final Completion unless reviewed and deemed final by the COSD.
- D. Design Records: The Design-Builder shall retain records of the design development including 30-60-90-100% design documents, design basis, calculations, etc.
- E. Minutes of Meetings: The Design-Builder shall retain minutes of meetings between the COSD and the Design-Builder relating to the Design-Build Work.
- F. Inspection Reports and Tests Results: The Design-Builder shall retain official reports and certified test records of all inspections and tests which were undertaken as part of the Design-Build Work.
- G. Utility Plans: The Design-Builder shall retain Utility plans for the MAXIMUM TONNAGE Project and the Project Site.
- H. Intake Structure: The Design-Builder shall retain structural, architectural, civil, mechanical, electrical, and plumbing plans for the MAXIMUM TONNAGE Project and the Project Site.
- I. As-Built Drawings: At the completion of Construction, the Design-Builder shall prepare and submit to the COSD "as-built" construction record drawings for the INITIAL Project, as well as any add-on items requested by the COSD (AWARDED Project), as follows:
 - a. Full-size reproducible plans;
 - b. Full-size printed plans; and
 - c. One complete set of all "as-built" construction record drawings on compact disc in a software compatible with the COSD's requirements (CADD). The Design-Builder shall obtain the COSD's approval of the "as-built" construction record drawings as a condition of Final Completion.
- J. Copies of all Approvals: The Design-Builder shall retain copies of all Regulatory (RWQCB, California Department of Resources Recycling and Recovery [CalRecycle], LEA, APCD) and City Approvals for the Design-Build Work and occupation or use of the Project, including

- copies of all surveys, notices and reports made pursuant to any Regulatory and/or City Approvals, and any inspections that are conducted at the site.
- K. Signed Quality Management Plan: The Design-Builder shall retain a signed copy of the Quality Management Plan for the Design-Build Work and all records of the QA program implemented as required by this Design-Build Contract.
- L. Equipment and Systems Manuals: The Design-Builder shall:
 - a. As a condition to Final Completion, make available all operation and maintenance manuals, specifications, warranties and related information, in both written and electronic form, for all the equipment and systems that have been included in the Design-Build Work for review by the COSD;
 - b. Submit to the COSD all operation and maintenance manuals, specifications, warranties and related information, in both written and electronic form, for all the equipment and systems that have been included in the Design-Build Work; and
 - c. Organize and store such information at the Project Site.

Construction Work – General

- A. The Design-Builder shall construct the INITIAL Project, and any add-on items requested by the COSD (AWARDED Project), according to the approved and stamped final design plans.
- B. The Design-Builder shall comply with all applicable laws and/or regulations of all federal, state, and local agencies (including but not limited to building codes, health and safety codes, stormwater pollution prevention plan [SWPPP], and SWRCB Construction Stormwater Program).
- C. The Design-Builder shall be responsible for obtaining required permits, building permit fee renewals, design changes required to comply with local jurisdiction/building codes, construction changes, and retain responsibility for all building permit reporting compliance until Commissioning and acceptance by COSD. COSD will retain responsibility for California Environmental Quality Act (CEQA), SWFP, and military coordination. The Design-Builder shall be responsible for all other environmental permits and shall allow the COSD to review any and all permits before they are submitted. Design-Builder shall be responsible for complying with aspects of COSD controlled permits and abiding by the permit requirements that apply to the Project.
- D. The Design-Builder shall procure and manage all necessary subcontractors for construction of the Project.
- E. The Design-Builder shall perform all necessary Project site preparation and excavation

- activities. A Community Health and Safety Plan (CHSP) shall be drafted and submitted to the COSD for review prior to any excavation activities. The COSD shall review and submit the CHSP to the Solid Waste LEA for review and approval.
- F. The Design-Builder shall furnish and prepare all construction temporary site facilities and controls. The Design-Builder is responsible for ensuring that adequate temporary facilities are provided as necessary to enable all Project personnel, including all subcontractor personnel to perform their work.
- G. The Design-Builder shall demolish, remove, and/or modify any existing improvements at the Project Site, in accordance with the approved design and as approved by COSD. If any of the material demolished or removed is acceptable for disposal at West Phase II, the material shall be weighed at the landfill scales prior to disposal and no tipping fee will be applied. The Design-Builder shall implement damage prevention to existing conditions. The Design-Builder shall restore existing conditions in areas where improvements were not constructed.
- H. The Design-Builder shall make all arrangements necessary to secure the availability of all utilities necessary for the performance of the design-build work and shall be responsible for modifying all existing utilities at or serving the site, as related to the Design-Build Work. The Design-Builder shall modify, re-route, repair and/or replace any existing utilities, as related to the Design-Build Work.
- I. The Design-Builder shall furnish all necessary architectural, design and engineering services, labor, supplies, materials, tools, scaffolding, transportation, insurance, temporary facilities and utilities, completed structures, assemblies, fabrications, acquisitions, installations, testing, accounting, recordkeeping and other things and services of every kind whatsoever necessary for full performance and completion of the design, engineering, construction, commissioning, obtaining and maintaining government approvals, and related obligations with respect to the design, construction, commissioning, and monitoring of the project during the design-build period.
- J. The Design-Builder shall prepare all laydown, staging, and spoils area. Laydown and staging areas for construction materials required for the design-build work, and any spoils areas, shall be located solely on the Project Site. The Design-Builder is responsible for returning the laydown, staging, and spoils area to its previous condition upon completion of the Project.
- K. The Design-Builder is responsible for maintenance of the Project Site. During performance of the design-build work, the Design-Builder shall be responsible for the overall maintenance of the Site. The Design-Builder shall maintain access for COSD personnel to perform operation, maintenance, and monitoring of landfill related features, including LFG collection system, landfill cover, and surface water conveyance features.
- L. The Design-Builder shall remove and legally dispose of any demolition or construction debris

resulting from the design-build work. The Design-Builder shall make every effort to recycle unused construction materials and demolition materials. The Design-Builder shall clean up and remove all rubbish and construction debris as they accumulate. The Design-Builder shall remove all trash and debris on Site.

Coordination of Construction Work and Operation

<u>Shutdown of Existing Facilities during Construction.</u> The Design-Builder shall plan and coordinate in advance with the COSD in order to obtain COSD approval and schedule its Construction work which requires partial or complete shutdowns of the existing facilities. The Design-Builder shall make every effort to minimize the number and duration of partial or complete shutdowns.

<u>Maintenance of Existing Facilities Operations During Construction.</u> The Design-Builder shall take no actions during Construction that adversely affect the operations of COSD.

<u>Protection of Existing Facilities.</u> The Design-Builder shall protect existing facilities and utilities not designated for removal. In the event of damage, the Design-Builder shall immediately restore damaged or temporarily relocated improvements and utilities to equal or better than their original condition. Repairs to damaged utilities and improvements are subject to inspection and approval by an authorized representative of the utility or improvement owner before being concealed by backfill or other work.

Project Site Access

The Design-Builder shall access the Project Site using only public roads, and in a manner consistent with the Easements and any other rights-of-way obtained by the Design-Builder, at its sole cost and expense. The Design-Builder shall not destroy, remove, or otherwise disturb any existing survey markers or other existing street or roadway markers without proper authorization. No pavement breaking or excavation shall be started until survey or other permanent marker points that will be disturbed by the construction operations have been properly referenced. Survey markers or points disturbed by the Design-Builder shall be accurately re-established by the Design-Builder after street or roadway resurfacing has been completed.

Project Roadways

The Design-Builder shall build and maintain access roads within the Project Site to provide for delivery of materials and for access to work areas that specifically protect the LFG collection and control system. The Design-Builder shall maintain access roads on site to storage areas and other areas to which frequent access is required and shall maintain similar roads to existing facilities on site to provide access for maintenance and operation. The Design-Builder shall not damage existing roads to/from the Landfill (e.g., Convoy Street). Any damage caused by the Design-Builder shall be repaired by the Design-Builder at their own expense. Buried vulnerable utilities under temporary roads will be protected (e.g., with steel plates, wood planking, bridge, etc.). Onsite access roads will be maintained free of mud and dust. Under no circumstances will vehicles/equipment leaving the site track mud/dust off the site onto the public right-of-way.

Design-Builder shall provide street sweeping and washing as needed to comply with site and project SWPPP.

Traffic Management

The Design-Builder shall minimize traffic impacts as follows:

- A. Design-Builder shall provide traffic control signs where construction traffic uses public roads and highways.
- B. The Design-Builder shall provide flag persons to assist in maintaining traffic flow, as necessary, during construction hours.
- C. Construction equipment and/or materials shall not be stored within or along Convoy Street.
- D. Detours shall ensure the safe movement of vehicles during the construction period.
- E. Signed alternate routes shall be provided for detours.
- F. Construction parking shall be configured to minimize interferences with landfill traffic.

Construction Safety and Security

Site-Specific Safety and Security

The Design-Builder shall develop and implement a Health and Safety Program in accordance with all applicable Cal/OSHA and Federal OSHA regulations, a Solid Waste LEA-required CHSP, and any other applicable federal, state, or local agency regulations or requirements. If any of these requirements are in conflict, the more stringent requirement shall apply. The Design-Builder shall designate a Site Safety and Health Manager who shall be responsible throughout the project for implementation of the Health and Safety Program. The Design-Builder's failure to be thoroughly familiarized with the aforementioned safety and health provisions shall not relieve the Design-Builder of responsibility for full compliance with the obligations and requirements set forth herein.

The Design-Builder's Health and Safety Plan shall include as appropriate, but shall not necessarily be limited to, the following items:

- A. Organizational structure
- B. Comprehensive work plan
- C. Hazard analysis for each Site task
- D. Employee training

- E. Personal protective equipment to be used for each task
- F. Frequency and types of air monitoring, personnel monitoring, and environmental sampling techniques and instrumentation to be used
- G. Site control measures
- H. Emergency response plan
- I. Spill containment program
- J. First aid and medical attention
- K. Fire protection and prevention
- L. Occupational noise exposure
- M. Accident prevention signs and tags
- N. Barricades
- O. Fall protection
- P. General construction life safety measures

The Design-Builder shall provide to the COSD, prior to the start of any field activities, certification that requirements of this Section have been met. This certification shall include:

- A. Documentation of the training required for site personnel and supervisors; and
- B. Documentation of current first aid and cardiopulmonary resuscitation (CPR) training for at least two employees per work shift.

The Design-Builder shall maintain a copy of the Health and Safety Plan at the site for the duration of work.

If the COSD observes any of the Design-Builder's employees or Subcontractors engaging in an unsafe act or procedure that may result in serious injury or death to the person performing the act/procedure, or to any other person, the COSD shall have the right, but not the duty, to stop the work until the condition is corrected. The Design-Builder shall be held responsible for any increased costs that result from this work stoppage.

In addition to daily safety tailgate meetings, the Design-Builder shall be responsible for holding mandatory weekly safety meetings on the site. The COSD shall be notified of the time and place for these meetings, so that they may attend if they desire. Meetings shall reiterate all safety

measures to be taken and shall discuss any violations committed and preventive measures. The Design-Builder shall provide the COSD with a copy of the meeting minutes and the attendance upon request.

The Design-Builder shall provide all personnel working on the project with required orientation and training on the potential hazards and the appropriate use of safety equipment.

The Design-Builder shall meet, at all times during excavation, applicable OSHA health and safety requirements. The Design-Builder shall secure all work areas including any open holes or excavations when not working by marking with ribbons and cones and posting of signs indicating to stay away due to the existence of open excavation. Open excavations shall be secured in accordance with OSHA requirements

Environmental Requirements

The Design-Builder is responsible for complying with all terms and conditions of environmental and regulatory permits applicable to the project. Construction activities shall be in accordance with all such environmental and regulatory permits, and the Design-Builder may potentially be held responsible for any violations as prescribed by law. The Design-Builder is responsible for reading, understanding, and complying with all applicable laws, permit measures and environmental documents.

The COSD may be required by the regulatory agencies to take action, including the suspension of work if there is environmental noncompliance. If the Design-Builder's actions cause noncompliance, the Design-Builder shall be responsible for correcting, remediating and/or mitigating for such noncompliance. No such correction, remediation or mitigation shall entitle the Design-Builder to schedule or price relief. Design-Builder's employees who fail or refuse to carry out the requirements of this section may be ordered to be removed from the work site, at the sole discretion of the COSD.

The Design-Builder shall be responsible for the sequence and control of construction activities, selection and maintenance of equipment, and the conduct of the employees of the Design-Builder and all Subcontractors at the Project site to ensure that specific mitigation measures to reduce or eliminate identified environmental impacts are implemented.

The Design-Builder shall minimize construction activities causing disturbances to vegetation or wildlife. Construction activities may be restricted in various ways that include, but are not limited to, the environmental protection and/or mitigation measures specified.

The Design-Builder shall incorporate these environmental protection provisions into each of its Subcontracts, so as to assure that subcontractors also comply with them.

Environmental Compliance Manager

The Design-Builder shall designate an ECM to ensure that its mitigation plan is properly and fully implemented. The ECM shall be the single, identified entity or person responsible for, at a minimum, the following duties:

- A. Planning of environmentally compliant Design-Build Work methods.
- B. Oversight of Design-Build Work activities to determine compliance with mitigation measures.
- C. Ensuring that all training has been conducted, and signage, marking and barriers to protected areas have been installed.
- D. Ensuring compliance with the construction SWPPP and with the existing facility SWPPP.
- E. Coordination with the COSD on implementation of environmental mitigation measures.
- F. Assure the Design-Builder's cooperation with the COSD in its coordination with Governmental Bodies that have administrative oversight of the environmental sites to be protected, if required.
- G. Compliance with environmental Governmental Approvals.
- H. As and when requested by the COSD, meeting or interacting with representatives of Governmental Bodies with environmental oversight authority, if required.
- I. Recordkeeping. All environmental monitoring duties conducted by the ECM shall be recorded in the form of a standard report and photographic log (as required). The photographic log shall be kept in both electronic and hardcopy form. All reports shall be periodically submitted to the COSD in summary form as required by COSD. Copies of all daily monitoring records shall be maintained at the Project Site by the ECM.

Plans and Manuals

The following plans shall be submitted by the Design-Builder prior to the final milestone payment:

- A. Training Plan (which will include a Transition Plan)
- B. Service Manuals for all systems
- C. Master Maintenance Plan

The details of the contents of each plan are provided below.

Training Plan

The COSD's approval of the Training Plan shall be a condition precedent to the achievement of Commissioning Readiness. The Training Plan shall:

- A. Be designed to completely train COSD staff to operate and maintain the OPF with the systems theory, sequence of operations, component and functional descriptions, standard operating procedures, hazard analysis of equipment, safety features, emergency procedures, preventive, corrective and predictive maintenance, schematics and diagrams of all components.
- B. List all equipment and systems in the Project, including, but not limited to, the following information for each equipment package or system:
 - a. A description of each equipment package or system with reference to technical specifications or drawings if applicable;
 - b. Identification of target audiences (e.g., operators, mechanical maintenance, electrical maintenance, instrumentation maintenance);
 - c. Duration of classroom training, if any, for each session and each audience (to be updated upon receipt of vendor Operation and Maintenance [O&M] manuals); and
 - d. Duration of hands-on training for each session and each audience (to be updated upon receipt of vendor O&M manuals).
- C. Include the number, qualifications, and certification levels of COSD staff.
- D. Establish the hours of training that shall be provided prior to the Operational Readiness Date and, if necessary, any further training that shall be provided during the Warranty Period (which shall begin upon construction completion and when the systems are fully commissioned / operational / in use by the COSD). At a minimum, this shall include an initial period of 2 weeks for all building systems/equipment and composting systems/equipment, and a refresher training of 2 weeks approximately 6 months after the COSD begins operation of the facility.
- E. Include a Transition Plan that shall include a workflow and schedule for transitioning from the current Greenery to the new OPF.

Service Manuals

The Service Manuals shall include the practices and procedures necessary for the operation and control, maintenance, and repair and replacement of each equipment system, package, or unit incorporated into the OPF. The Service Manuals shall be suitable as a resource for operating and maintaining the components of the Project, and shall include the following information:

- A. Safety information for each equipment system, package or unit incorporated into the Project, including mechanical and electrical lockout procedures for all Project components.
- B. Descriptions of units or systems and component parts, their functions, operating characteristics and limiting conditions, including:
 - a. Equipment summary, which shall include nameplate data, supplier, manufacturer and local representative;
 - b. Start-up sequences, including inspections required before initiation of sequence;
 - c. Performance monitoring requirements to confirm proper operation and guide component control adjustments;
 - d. Adjustment of variable functions and settings;
 - e. Interface among the components and systems of the Project;
 - f. Troubleshooting guidelines to identify non-performing components and identify probable cause;
 - g. Shut-down sequences and lock-out requirements to safely remove components from service without adverse impact on system performance; and
 - h. Preparation to isolate off-line equipment piping, power, and controls for safe execution of maintenance activities.
- C. Description of instrumentation and control system, including alarm summary.
- D. All process and instrumentation diagrams (P&IDs), electrical line drawings, schematics, and as-builts for the various systems.
- E. Copies of all manufacturers' warranties shall be included.

Pre-final Service Manuals shall be submitted to and approved by the COSD as a condition precedent to the achievement of Commissioning Readiness. Final Service Manuals shall be submitted to and approved by the COSD as a condition precedent to the achievement of Final Completion.

Master Maintenance Plan

The objective of the Master Maintenance Plan is to maintain the OPF's operability, durability, and reliability throughout its projected functional life. Consequently, the maintenance plan shall recommend how the COSD should:

- A. Plan and perform predictive and preventive maintenance on all equipment and structures in accordance with the recommendations of the manufacturer and the Contract Standards and otherwise preserve Project Warranties and manufacturers' warranties;
- B. Plan and perform corrective maintenance in such a manner that the equipment operation is not impacted and the performance standards are not threatened;
- C. Perform all maintenance, repair, and replacement activities in accordance with the Contract Standards; and
- D. Schedule maintenance that could materially affect Project operations during the upcoming year.

At a minimum, the Master Maintenance Plan shall address:

- A. Buildings, grounds, and structures, including the existing CASPs, additional covered aeration type composting equipment/systems, conveyors, and associated infrastructure;
- B. Stormwater systems including piping, channels, ponds, and, if appropriate, pumps;
- C. Roadways;
- D. Mobile and stationary equipment;
- E. Conveyors;
- F. Electrical systems and instrumentation;
- G. Spare parts and other specialized tools and equipment;
- H. Methane mitigation systems, if applicable;
- I. Landfill monitoring systems, if applicable; and
- J. Fire protection systems.

Design-Build Quality Assurance and Quality Control

Roles and Responsibilities

The Design-Builder shall perform QA/QC for the OPF design and construction. The Design-Builder shall perform and document construction monitoring, observations, and testing. The Design-Builder shall conduct all tests of the design-build work or inspection. The Design-Builder shall secure and deliver to COSD all required certificates of inspections, test reports, work logs, and approvals to the COSD. The Design-Builder shall develop a quality management plan (QMP) for design and for construction. It is the responsibility of the QA/QC Manager to ensure design-build work is being conducted in accordance with the QMP. The Design-Builder may identify a Design QA/QC Manager and a Construction QA/QC Manager, if desired, and experience and qualifications for both shall be included in the proposal.

Quality Management Plan Development and Implementation

The QMP is a critical component of the Design and Construction of the Project. It partly represents assurance to the COSD that the Design-Builder is executing the Design-Build Work in accordance with this Design-Build Contract. As a result, the QMP, including QA/QC, shall be consistent with and support the following quality objectives for the Project:

- A. Ensure that permitting, design, construction and testing are consistent with the Design requirements, performance specifications, and applicable regulations;
- B. Ensure that approval requirements are effectively incorporated into Design-Build Work;
- C. Develop and implement procedures to ensure that problems are discovered early, resolved in a timely manner, and do not recur;
- D. Ensure that adequate QA/QC procedures and resources are provided by the Design-Builder to effectively assess and ensure high quality in all work products and services and compliance with the Contract Standards, warranty requirements, safety, security, and environmental compliance requirements;
- E. Provide timely reporting and documentation of QA/QC inspections, technical reviews, testing, analysis, and determinations of compliance with the Contract Standards; and
- F. Provide follow up inspections, analyses, and testing if conditions are found to be non-compliant with the Contract Standards and verify through special reports and direct communications with the COSD that all corrective actions have been effectively implemented and that the resultant product or service is of acceptable quality.

Design QA/QC Requirements

The Design-Builder has primary responsibility for design quality to ensure Design Documents are professionally reviewed and checked to ensure a quality project. The QMP shall include the details of the Design-Builder's Design QA/QC Program and include a description of how the Design-Builder shall provide the following:

- A. A description of the design management functions and design review processes, which are the responsibility of the Design-Builder.
- B. A description of typical design QC tasks to be accomplished by the Design-Builder which may include technical review of design deliverables, checking of calculations, checking of quantities, and the review of specifications.
- C. A description of the process to approve and release design packages for construction in alignment with the Design QA/QC Program.
- D. A demonstration that the COSD retains oversight in the form of review and verification of the design's ability to meet the stated contract requirements. The COSD and its designated consultants shall participate in the design review process while not relieving the Design-Builder from its obligation to comply with this Design-Build Contract.
- E. A description of the application of the Design QA/QC Program through design review techniques to be used by the Design-Builder, such as over-the shoulder design reviews to supplement formal reviews, formal Milestone reviews, and submittal reviews during the Design-Build Period.

Construction Quality Control Requirements

The QMP shall include the details of the Design-Builder's Construction QA/QC Program, including the following:

- A. The Construction QA/QC Program shall require inspection during construction by inspectors who are not responsible, in whole or in part, for the scheduling or construction of the Design-Build work being inspected or who report directly to the QA/QC Manager.
- B. Instructions for performing inspections must be clearly defined, including the work attributes to be inspected, acceptability criteria, frequency of inspections, and the requirements for documenting the inspection results.
- C. Inspection records must be kept current, have sufficient detail to enable the Architect and the Engineer-of-Record (part of the Design-Build team), as applicable, to identify inspections which have been performed, and the results of these inspections. Inspections must be made

throughout the period of construction, including the initial construction, in-process inspections, final inspections, and testing during construction.

- D. Documentation requirements shall include Design-Builder production reports, Design-Builder QC reports, field test reports, testing plan and log, inspection reports, rework items list and QC meeting minutes.
- E. Procedures and controls shall be provided to ensure that inspections are being performed using the latest Design Documents and approved Shop Drawings. Procedures shall ensure that an adequate number of inspection personnel are available as needed, and that all inspectors are qualified, trained, and proficient in performing inspections for the Design-Build Work to which they are assigned.

Construction Quality Assurance Personnel

Construction Quality Assurance (CQA) Manager

The Design-Builder shall designate an independent CQA Manager approved by the COSD to determine whether the Project Design and other Contract Standards are being met and that Construction QA/QC activities are following the approved QMP. The CQA Manager shall be assigned to the Project on a full-time basis, shall oversee the QA inspectors, and shall provide monthly reports to the Design-Builder which shall include non-conformance reports (NCRs), inspection and test results and trends to inform the Design-Builder where it needs to prevent reoccurrence and improve performance. The CQA Manager shall have the authority to stop work as necessary to address deficiencies or non-conformances.

<u>Laboratories</u>

Construction testing shall be performed by individuals who are qualified and experienced in providing these testing services. Equipment used to perform tests shall be calibrated according to requirements in the testing procedure. The Design-Builder shall hire a certified independent testing laboratory to perform all laboratory testing. Laboratory tests shall include the proposed concrete mix design, concrete aggregate tests, strength of concrete field test cylinders, gradation, hydraulic conductivity, and moisture density relationship of soils and compost processing area liner materials. On-site tests shall include, but are not be limited to, tests for concrete slump, concrete air entrainment, concrete temperature, casting of concrete test cylinder specimens, in-place testing of concrete strength, and compaction density testing of soils.

Construction QA Report

The Design-Builder shall prepare and submit the QA/QC Report for the Project to the COSD. The Report shall be signed by a Registered Civil Engineer in California and include:

- A. Persons responsible for QA/QC and their roles and responsibilities
- B. Records of design changes, discrepancies, and/or non-compliance
- C. Copies of Construction Record Drawings and Technical Specifications
- D. Daily records of inspections including:
 - a. Time of Inspection and Tests
 - b. Materials Sampling and Testing
- E. Installation Records
- F. Design-Build Work Review Procedures

Purpose

The purpose of this Section is to set forth the procedures for the COSD's review of each aspect of the Design-Build Work to verify that the Project has been designed and constructed in accordance with the Project Design and the terms and conditions of this Design-Build Contract.

Documents to be Submitted

At a minimum, the documents to be submitted during the Design-Build period shall include the following:

- A. Monthly Design-Build Work Report
- B. Intermediate submittals for review sessions and workshops on various materials, facilities, systems, equipment, and disciplines, including the design submittals provided for in the Baseline Design-Build Schedule
- C. 30% Design submittal
- D. 60% Design submittal
- E. 90% Design submittal
- F. Final Design Documents (issued for Construction)
- G. Power Supply and Energy Use Plan
- H. Technical Report for NOI
- I. Construction SWPPP

- J. Water and Wastewater Management Plan
- K. Commissioning Plan
- L. Monitoring Plan
- M. Applications, supporting documents, notifications, surveys, and reports required for Governmental Approvals
- N. Record Drawings and Specifications

Such documents shall be submitted in accordance with the Document Submittal Procedures described in this Section.

Design-Construction Work Package Information

The Design-Builder shall have flexibility with how it organizes and performs design-construction work packages so that it can proceed with ordering any necessary equipment or commence with any necessary construction activities such as civil-site work prior to the 100% design provided such construction or ordering of equipment prior to the 100% design shall not negatively affect the remaining Design-Build Work, the Design-Build Price, or the Project Schedule. The Design-Builder shall provide the following: Specifications, Design Narratives, Lists, and Drawings in the appropriate design-construction work package.

COSD Reviews

The COSD shall review the Design-Builder's Design Documents and design-construction work package documents for compliance and consistency with the requirements of this Design-Build Contract. The COSD's input during finalization of the Design Documents and preparation and finalization of design-construction work packages shall be solicited by the Design-Builder on a timely basis so as to provide adequate periods for review by the COSD, revisions by the Design-Builder and final review by the COSD without negatively impacting the Project Schedule. The COSD shall make reasonable efforts to bring staff or representatives with review and decision-making authority to the work sessions as requested and scheduled by the Design-Builder. The Design-Builder shall provide the COSD with advance notice of the work sessions and agenda topics to facilitate the COSD's scheduling of the appropriate participants for the work sessions. Construction activities shall not vary from the Final Design Documents submitted to the COSD except where such variations are allowed, subject to the review and approval. Adherence to the Final Design Documents as well as to the Project Design during work completion shall be a factor used by the COSD in its review and approval of the Design-Builder's Payment Requests during construction.

Design Changes

Any change requested by the Design-Builder to the Project Design (regardless of prior oral discussion) must be clearly identified by the Design-Builder in its cover letter that transmits the submittal and must be fully documented with compelling justification of the Design-Builder's request for a change to the Project Design and the benefits to the COSD for consenting to such a change. The Design-Builder shall assume all risks associated with obtaining COSD approval of any change to the Project Design requested by the Design-Builder. Change orders will not be approved for work scope that was required to be provided under the RFP.

It is anticipated that there could be some redesign or design changes needed during construction. Additional design work by the Design-Builder shall be subject to the COSD's review for compliance and consistency with applicable Project Design. Design changes to a particular Design Document performed following the issuance of the Design Document for Construction shall be issued under a Design Change Notice (DCN) process that accurately tracks and documents changes to the design.

No later than 30 days prior to initiation of construction, the Design-Builder shall submit to the COSD additions to the Document Submittal Procedures to include the DCN. The COSD shall be provided with copies of all DCNs in a timely manner to allow review, comment, and, where appropriate, approval in the same manner as set forth with respect to the initial design. Design clarifications shall be issued in a timely manner using a similar procedure.

Project Commissioning, Monitoring, and Maintenance

Purpose

The purpose of Commissioning is to provide a systematic process of assuring, by verification and documentation throughout the Project, that all Project systems perform interactively in accordance with the Contract Standards. The parties acknowledge that because all Project systems are integrated, a deficiency in one or more components can result in sub-optimal operation and performance among other components. This section of the scope of work sets forth the minimum Commissioning requirements to be incorporated into the Commissioning Plan with which the Design-Builder is required to comply with respect to testing equipment and sub-systems.

Commissioning

The Design-Builder shall prepare and submit to the COSD for its approval a detailed Commissioning Plan for the conduct of Commissioning Tests that shall ensure:

- A. The planning, design, construction, and operational processes have achieved their intended outcome;
- B. All participants follow an approved plan to ensure the completed Project shall realize its intended operational efficiency by the Operational Readiness Date;
- C. All stakeholders in the Project understand their responsibilities for Commissioning Tests prior to the Operational Readiness Date and during the Commissioning period; and
- D. The COSD shall be fully familiar with the Project and shall understand their continuous role in its efficient operation.

Commissioning Plan Outline Sections

The Commissioning Plan shall provide for Commissioning Tests to be conducted with respect to major equipment and systems for the OPF. The following example sections are provided; however, the Design-Builder is responsible for preparing a comprehensive plan this is applicable for commission an organics processing facility. The outline shall include, but is not be limited to the following:

- A. Overview
- B. General Building and Equipment Requirements
- C. Roles and Responsibilities
- D. Commissioning Process

- E. Initial Submittal and Documentation
- F. Pre-functional Checklists, Test and Startup
- G. Development of Functional Test and Verification Procedures
- H. Execution of the Functional Testing Procedures
- I. Representative sampling (e.g., grinding size, screen product size, cured product), where appropriate
- J. Deficiency documentation and correction process
- K. Recorded media for demonstration and training for the COSD, where appropriate
- L. Preparation of O&M manuals and warranties, or supply operation and maintenance manuals and warranties from manufacturers, for each component of the Project and Project Equipment and each complete system to be tested in the Project

M. Warranty Period

The Design-Builder shall prepare the Commissioning Plan by taking into account the Contract Standards and the Commissioning Plan shall set forth how Commissioning Tests shall be handled and managed for the Project. In general, the Commissioning Plan shall include a discussion of the Commissioning process, schedule, team and team member responsibilities, communication structures, a general description of the systems to be tested, and criteria for passing each test. The Commissioning plan shall be submitted to COSD for review and approval prior to implementation.

The Commissioning Plan shall include, but not be limited to, the following:

- A. Identify the names, roles, and where appropriate, the qualifications of all persons proposed to perform a role in the Commissioning process.
- B. Contain provisions which ensure successful completion of all Commissioning Tests and all other Commissioning activities required for the proper Commissioning of the Project and all Project Equipment, to the satisfaction of the COSD.
- C. Contain provisions which shall ensure successful completion of all Commissioning Tests and other Commissioning activities required prior to the Operational Readiness Date, to the satisfaction of the COSD.
- D. Contain provisions which shall ensure employment by Design-Builder of commissioning procedures that are prescribed by Applicable Law using methodologies so prescribed and methodologies prescribed in the Contract Standards.

- E. Contain provisions which shall ensure that standards or results to be achieved in each test, for such tests to be successful, shall satisfy all standards or results applicable to such Commissioning Tests as contained in the Contract Standards and those recommended by the manufacturer of that part of the OPF or OPF Equipment with respect to which the Commissioning Tests is to be performed.
- F. Contain provisions which ensure that the Commissioning Plan shall not propose a test or procedure that deviates from any procedure, standard, or specification intended by the Contract Standards unless specifically approved in writing by the COSD.
- G. Contain provisions which require that all Commissioning Tests results and copies of all certificates and approvals received by the Design-Builder in connection with any Commissioning Tests shall be provided to the COSD.
- H. Ensure that there are no provisions which create greater burdens to be imposed on the COSD than is contemplated in this Design-Build Contract.
- I. Contain an achievable schedule for the Commissioning Tests which shows the name, timing, and dependencies of each step in the critical path schedule to achieve Operational Readiness.

Performance of Commissioning Tests

Under the direction of the Commissioning Agent, appropriately qualified personnel of the Design-Builder shall implement all Commissioning Tests as set forth in the Commissioning Plan. The Design-Builder shall give a minimum of 30 days' notice to the COSD to witness and to comment on each aspect of the Commissioning Tests up until all Commissioning Tests are fully complete. The Design-Builder shall, together with such notice to the COSD, provide them with all information they may reasonably require in relation thereto, including, without limitation: (i) tests proposed; (ii) test methodology; and (iii) expected test results. In addition, the COSD shall be provided with full and reasonable access to all Commissioning activities to ensure they remain fully informed of the process.

Within 15 days following the last day of the Commissioning Tests performed pursuant to this Section, the Design-Builder shall provide the COSD with 10 hard copies (and a copy in digital PDF) of a written Commissioning Test report setting forth the results of such Commissioning Tests, certified as true, complete and correct by the Design-Builder and the Engineer-of-Record.

Commissioning

The Design-Builder is responsible for commissioning the Project. The Design-Builder shall prepare a Commission Plan, conduct commissioning activities, and perform commissioning tests necessary to demonstrate the OPF has achieved operational readiness.

The Design-Builder is responsible for maintaining the Project improvements throughout commissioning and until operational readiness is achieved.

The Design-Builder shall prepare a Training Plan. The Design-Builder is responsible for training COSD employees who will operate the OPF. Training shall include operation and maintenance of all equipment selected and integrated into the final design. The Design-Builder shall provide all equipment service manuals for training. The Training Plan will also cover health and safety protocols to follow during use of any OPF systems and equipment.

The Design-Builder shall achieve operational readiness following training of COSD employees and commissioning.

Monitoring Period

The purpose of Monitoring is to provide a systematic process of assuring by verification and documentation that, once physically operational, the Project performs in accordance with the Contract Standards over the course of reasonably foreseeable seasonal variations in climatic conditions. This Section sets forth the minimum Monitoring requirements to be incorporated into the Monitoring Plan with which the Design-Builder is required to comply.

- A. The Warranty Period shall begin upon construction completion and when the systems are fully commissioned/operation/in use by the COSD.
- B. The Design-Builder shall perform warranty work and be on-call for the Monitoring Period.
- C. The Design-Builder shall perform any warranty work that may be required over the course of 1 year and warrantees for certain equipment that may have extended performance or parts warranties will be the responsibility of the equipment supplier or manufacturer following the construction completion date.
- D. The Design-Builder shall be on-call for any necessary work during the Monitoring Period following operational readiness.
- E. The Design-Builder shall confirm project performance following termination of the Monitoring Period.
- F. The Design-Builder shall achieve final completion of the Project following confirmation of project performance (post-commissioning and monitoring period).

Appendix C Performance Specifications

MIRAMAR ORGANICS PROCESSING FACILITY

APPENDIX C: PERFORMANCE SPECIFICATIONS

This appendix provides performance specifications for the Organics Processing Facility (OPF), which consists of an Intake Facility, a compost pad, a conveyor system, all stormwater and wastewater (leachate) facilities related to the OPF, and all associated infrastructure (roads, utilities, etc.). A list of acronyms is provided in Appendix A. Additional detail is provided in Appendix B, Scope of Work. The Design-Builder shall use both Appendix B and Appendix C in tandem when preparing their proposal.

1. Organic Material Volume

The current Greenery Compostable Materials Handling Facility Permit (Solid Waste Information System [SWIS] #37-AB-0003, Miramar Greenery, 2019, included in Appendix E) allows for handling and processing a maximum of 690 tons per day (tpd) of compostable materials. The OPF systems shall be designed to accept, process, transport, and store permitted compostable materials. Unpainted/untreated wood waste may be brought into the Intake Facility with a mixed load, whereas loads containing only unpainted/untreated wood waste may be directed to a separate designated area on the North Miramar Landfill for unloading. Appendix E provides site information and existing load and tonnage data from previous years for a breakdown of materials accepted at the existing Greenery.

No waste material shall be stored within the Intake Facility for more than 24 hours.

The Intake Facility, conveyors, and composting systems shall be designed to accommodate the maximum permitted tonnage of 690 tpd.

2. Organic Material Type and Source

The OPF will accept commercial and residential food waste and green waste. The OPF will also accept unpainted/untreated wood waste that is comingled in a mixed green waste load. Loads containing only unpainted/untreated wood waste may be directed to a separate designated area on the North Miramar Landfill for unloading near the unpainted/untreated wood processing area.

Green waste (non-food waste organic materials) includes yard trimmings, such as grass clippings, shrub and landscaping cuttings, tree limbs and trunks generally smaller than 3 inches in diameter. Green waste shall be ground and mixed with food waste, using existing City of San Diego (COSD) equipment, supplemented with additional equipment, if necessary, to use as compost feedstock. The larger green waste (larger branches and coarser foliage) may be processed (e.g., ground or chipped) using existing COSD equipment, supplemented with additional equipment, if necessary, to use as mulch feedstock. Unpainted/untreated wood waste includes yard trimmings (tree branches, trunks, and stumps generally larger than 3 inches in diameter), natural fiber product, and wood waste from silviculture, manufacturing,

construction, and demolition. Unpainted/untreated wood may be chipped using existing COSD equipment, supplemented with additional equipment, if necessary, to use as the chipping operation feedstock used to make dyed and un-dyed wood chips.

The Intake Facility shall be designed to accept all the organic compostable material types allowed in the existing permit. The Intake Facility shall be designed for compost preparation activities and chipping and grinding activities. The Intake Facility shall be designed so that food, green, and unpainted/untreated wood waste are accepted at separate designated intake areas for processing.

3. Contamination

Contamination of the incoming organic materials is expected. Contamination may be as high as 30 percent (%) of individual incoming loads. Contamination of product transferred to a composting system(s) (GORETM covered aerated static piles [CASPs] or other covered positive aeration type composting equipment/systems that meets the permitted throughput and final product specifications) shall be no greater than 5% by weight. Screening or picking of contamination from incoming organic materials shall be designed to reduce contamination in compost and wood waste feed stock materials. Contamination handling, storage, and systems for eventual removal from the Intake Facility for further processing (recyclable materials) or disposal shall be incorporated into the design. The Design-Builder shall describe in the proposal how the equipment/processes included in their design will meet this requirement. The Design-Builder shall also describe in the proposal how their design ensures employee safety during contaminant removal.

4. Material Drop-Off

The Intake Facility shall be designed to accommodate all vehicle types, including packer trucks, roll-off dump trucks, end dump trucks, walking floor trailers, self-dumping commercial trailers, and public vehicles/trailers.

The Intake Facility shall include the following:

- Permanent roof structure with as much natural lighting as possible through the use of skylights or solar tubes in the roof or through the use of translucent panels in the roof of a pre-engineered metal building (PEMB). The roof shall be able to support future solar panels (not included in this Request for Proposal [RFP]), an indoor/outdoor odor suppression system, as applicable, and life safety appurtenances.
- Walls on all four sides of the building with each of the four walls able to be opened a maximum of 75% through the use of roll-up doors or hanger-style (rolling) doors which would allow commercial vehicles and/or heavy equipment to pass unimpeded.

- Reinforced concrete floor of sufficient strength to withstand intended use of heavy
 equipment and material handling, including push walls where appropriate to aid in loading
 of processing equipment and steel rails embedded in concrete or steel floors to increase
 durability of floor in areas where materials will be scraped off floor surface.
- Air handling and treatment systems (e.g., building ventilation, any capture/odor mitigation systems) and equipment, along with life safety appurtenances, compliant with building codes and all local jurisdictional requirements.
- Interior and exterior lighting.
- Utilities (internet, electric, potable water, and recycled water).
- Stormwater management/collection, including collection of rainwater from roof.
- Odor monitoring and mitigation measure(s), as required by applicable regulations.
- Fire suppression, methane mitigation, and life safety elements meeting requirements of building codes and California Code of Regulations (CCR) Title 27 regulations for buildings within 1,000 feet of a landfill.

5. Traffic Queuing

The OPF design shall address how material drop-off traffic will be handled within the designated intake ingress/egress area, and how heavy equipment used to handle material will safely interact with traffic. The design shall reduce the interaction between traffic dropping off materials and material handling equipment pushing, transporting, and processing the received materials with minimal impacts to standard Miramar Landfill operations traffic such as waste traffic from the scales to the tipping face. The design shall include adequate queuing space for material drop-off. The queuing space shall meet the demands of the maximum permitted daily tonnage (690 tpd).

6. Equipment

The proposed design shall include stationary equipment for processing of incoming waste, handling and management of feedstocks, removal of feedstock contamination, transport of materials, composting, transport and handling of finished compost product, and overall site maintenance (this does not include mobile equipment such as articulating loaders as the COSD intends to continue leasing). The design shall address how the selected equipment will enable efficient and effective compost and mulch production and minimize site maintenance and product contamination. The design shall also address how material grinding will be done safely and away from customer areas. Existing owned equipment may be integrated into the design of the OPF. New equipment will be required to meet the demands of the OPF. A list of existing equipment owned or leased by the COSD for the current Greenery has been provided with the RFP in Appendix F.

The Design-Builder shall design the Intake Facility such that an additional 20% of floor space is available for future equipment that may be necessary based on how the incoming waste characteristics may change over time. The Design-Builder shall prepare a robust operation and maintenance (O&M) plan, including lists of appropriate spare parts and tools necessary to properly maintain and keep equipment functional and limit down time. The O&M plan shall include contingency planning items to provide COSD personnel with guidance to deal with unforeseen conditions and get system components operational as quickly as possible.

The COSD desires to use the existing 24, 100-foot long GORE™ CASPs currently active at the existing Greenery. Additional composting equipment needed to meet the demands of the maximum permitted daily tonnage (690 tpd, or 251,850 tons per year [tpy]) shall be a covered positive aeration type system. The positive aeration type system shall have appropriate emission certifications or performance demonstration information similar to those stipulated by the San Joaquin Valley Air Pollution Control District (APCD).

The Design-Builder shall be responsible for relocating stationary equipment; the COSD will be responsible for relocating the wheeled and tracked equipment. The Design-Builder shall only need to warranty new equipment, not the existing equipment.

7. Storage

Designated storage areas shall be provided at the Intake Facility and on the compost and finished product pad. The Intake Facility shall provide storage for up to 24 hours of delays due to equipment maintenance and/or repair. The compost pad shall have a total capacity for up to 74,000 cubic yards (cy) of finished compost and mulch product. The final product area may be excluded from the working surface hydraulic conductivity requirements under the following conditions: the area is isolated in a dedicated area away from the active and curing compost; the area is clearly marked as "final product;" and the area is identified in the Notice of Intent (NOI) and technical report, and approved by the Regional Water Quality Control Board (RWQCB). Management of stormwater in finished product storage areas shall be kept separate from composting areas that are required to treat stormwater as process water (leachate).

8. Composting

The OPF shall incorporate the existing 24, 100-foot long GORETM CASPs for active compost and incorporate additional covered positive aeration type composting equipment/systems, as necessary, to accommodate the 690 tpd design requirement (251,850 tpy). The CASP system the COSD currently owns and operates uses three phases of aeration: 1) 4 weeks "Active/High Rate Composting," 2) 2 weeks "Maturation," and 3) 2 weeks "Finishing." The compost then continues to cure but can be moved to a storage area to complete the curing process. The COSD is requesting that the Design-Builder propose on a covered positive aeration type composting system as described in the Scope of Work (Appendix B). Electrical and mechanical systems, and wastewater and grey water shall be provided for the composting system. COSD desires to

preferentially use wastewater (leachate), followed by stormwater collected on site, and recycled (purple pipe) water, for composting system operations, where permitted.

If the Design-Builder chooses to submit an alternate proposal in addition to the requested proposal, the Design-Builder shall propose a design for the OPF that uses a covered positive aeration type system and is able to meet the throughput/capacity requirements and produce a mature, stable compost product. The Design-Builder shall keep in mind the COSD's desire to make use of their existing 24, 100-foot long GORETM CASPs, to be modular, to reduce maintenance costs, and to enhance stormwater quality.

9. Compost Pad

Any portion of the compost pad in contact with the CASPs and/or other composting equipment/systems that meets the permitted throughput and final product specification and/or stormwater in contact with this composting equipment is considered a working surface under the State Water Resources Control Board (SWRCB) Order WQ 2020-0012-DWQ General Waste Discharge Requirements for Composting Operations (Compost WDR). Under the Compost WDR, the working surface must be designed with a hydraulic conductivity of 1 x 10 centimeters per second (cm/s) or less and be constructed with one of the following liner systems: minimum one-foot compacted soil; asphaltic concrete or Portland cement; or an equivalent engineered alternative specified in an NOI and/or a technical report and approved by the RWQCB.

The COSD is requesting that the Design-Builder propose on a compost pad as described in the Scope of Work (Appendix B). The compost pad shall consist of reinforced concrete paving with each CASP and/or other composting equipment/systems having an integrated drainage system, dedicated positive air injection system, protection from loading and unloading associated activities, and dedicated permanent walls with a pathway between each unit to facilitate operations and monitoring. The pad shall be designed to accommodate future settling of the landfill.

The COSD desires to place the existing GORETM CASPs and any other covered positive aeration type equipment/systems on a durable (e.g., concrete) surface with pony walls (short structural walls along three sides of each CASP and/or covered positive aeration type composting equipment/systems) to support cover system components for east of operation, in pad/floor aeration infrastructure, and reduced aerial requirements for material processing and wastewater collection. A pathway shall be placed between each unit to facilitate operations and monitoring.

Because the compost pad will be built on the North Miramar Landfill, the Design-Builder shall incorporate the existing landfill gas (LFG) collection system wells and piping into the design to allow the COSD to continue to operate and maintain the LFG collection system. The existing LFG system plans are included in this RFP as Appendix H-1. Any modifications to the LFG collection system that may be necessary shall be designed, as approved by COSD and regulatory agencies [Local Enforcement Agency (LEA) and San Diego Air Pollution Control

District (SDAPD)], and constructed, as coordinated with the COSD and LFG system operator, by the Design-Builder, with the intent that, at the completion of construction, operation and maintenance of the revised LFG collection system components will be handed over to the company conducting the LFG system operations for the COSD. The Design-Builder shall minimize disturbance and/or relocation of LFG system components.

Wastewater (leachate) collected from the composting area shall be handled separately from other areas of the OPF and in accordance with the Compost WDR.

If the Design-Builder chooses to submit an alternate proposal in addition to the requested proposal, the Design-Builder shall propose a design for the compost pad that meets all the requirements in this RFP.

10. Curing and Finished Product Processing Area

Material that has been composted and ready for curing but requires size reduction is processed using a trommel or star screen and is then pushed directly into a windrow or stockpiled, depending on operational needs at the time of production. Cured composted materials will be processed through screening and classification equipment, if necessary, to correctly size the finished product based on market demand or end use specifications/requirements. Over-sized material may be subject to further screening or grinding and then added back into the composting process, if necessary. Sale of finished organic processed material is made available to customers.

The COSD desires to use their existing screening equipment in the OPF, to the extent practical. The Design-Builder shall determine what equipment will be used and what, if any, additional equipment may be necessary to meet the targeted throughput of the OPF. Available equipment is listed in Appendix F.

Stormwater collected from the curing and finished product area shall be handled in accordance with the site Industrial General Permit.

11. Finished Product

The OPF shall be designed to produce United States Compost Council Seal of Testing Assurance (USCC STA) compost, mulch, and dyed and un-dyed wood chips.

12. Minimization of Contact with Material

The OPF shall be designed to minimize handling of material. The design shall address how the proposed material process flow will minimize contact.

13. Maximization of System Efficiency

The OPF shall be designed to operate as efficiently as possible, minimizing the amount of maintenance and equipment down time that will be required. The design shall address how the proposed material process flow and other facility elements will improve efficiency over time.

14. The Design-Builder shall provide full details of how the operations at the existing Greenery will be transitioned to the new OPF in the Transition Plan. The Design-Builder shall provide a narrative and timeline in the proposal on how this transition will occur.

15. Applicable Regulations

The Design-Builder shall be responsible for designing and building the OPF in accordance with all applicable building codes, all Federal, State, and local regulations for safe and proper handling of solid waste, current/proposed/forthcoming changes associated with Senate Bill 1383 and Assembly Bill 1826, and San Diego Air Pollution Control District (SDAPCD), California Department of Resources Recycling and Recovery (CalRecycle), and RWQCB regulations related to building on and adjacent to a landfill.

It should be noted that although there is no specific guidance to date from the SDAPCD regarding composting, the Design-Builder shall refer to general SDAPCD guidance and ensure that the OPF meets all applicable regulations, including modifications to the existing LFG system and potential excavation into the landfill.

All regulatory oversight will be coordinated and led by the COSD. The following sections provide a summary of the applicable regulations and code for design, which include Compost WDR, California Environmental Quality Act (CEQA), and CCR, and facility permits.

a. Compost WDR (Order WQ 2020-0012-DWQ)

Design the OPF to meet Compost WDR specifications for a Tier II Facility, as defined in the Compost WDR. The Compost WDR dictates feedstocks, additives, and amendments allowed at the OPF. The Compost WDR specifies requirements for working surfaces, stormwater management, including basins/detention ponds, berms, and water conveyance features.

b. California Environmental Quality Act

The Compost WDR contains mitigation measures to reduce environmental impacts outlined in the Public Resources Code 21000 Environmental Impact Report (EIR) No. 2015012021 for compliance with CEQA. The WDR General Order cites the following impacts: 6.5, 9.2, 11.1, 11.3 – 11.6, and 15.2. A composting facility that follows mitigation measures set by the WDR General Order is considered to be compliant with CEQA.

c. California Code of Regulations

Title 14 – Natural Resources, Division 7 Department of Resources Recycling and Recovery, Chapter 3.1 Compostable Materials Handling Operations and Facilities Regulatory Requirements.

Title 27 – Environmental Protection, Division 2 Solid Waste, Subdivision 1 Consolidated Regulations for Treatment, Storage, Processing or Disposal of Solid Waste, Chapter 3 Criteria for All Waste Management Units, Facilities, and Disposal Sites, Subchapter 5 Closure and Post-Closure Maintenance.

d. Current Facility Permits

The facility holds several permits including an Industrial General Permit, site Solid Waste Facility Permit, and Compostable Materials Handling Facility Permit. Regulations and restrictions contained in these permits must also be considered by the Design-Builder.

e. Federal Regulation Title 14 Part 77, Safe, Efficient Use and Preservation of the Navigable Airspace (Part 77)

The location of the OPF is just south of the Marine Corps Air Station (MCAS) Miramar airport (NKX), a Department of Defense (DOD) airport. Federal Aviation Administration (FAA) regulations for DOD airports must be followed with respect to allowable heights of structures and finished material storage along the flight path. The Design-Builder shall comply with all applicable FAA regulations.

Appendix D Waste Delineation Study





31 August 2020

Mr. Luis Campos City of San Diego Environmental Services Department Disposal & Environmental Protection Division 9601 Ridgehaven Court, Suite 310 San Diego, California 92123

Subject: North Miramar (West) Waste Delineation

Organics Processing Facility Development at Miramar Landfill

Task Order 22A, Agreement H1877003

Dear Mr. Campos:

Geosyntec Consultants, Inc. (Geosyntec) has prepared this letter for the City of San Diego (COSD) summarizing waste delineation activities in support of the Organics Processing Facility (OPF) Project at Miramar Landfill. The COSD is currently developing a Request for Proposal (RFP) for the proposed OPF for design-build bidding. The waste delineation presented herein is intended to serve as a bridging document to be included with the RFP. This letter summarizes the findings of the geophysical survey.

1. INTRODUCTION

The COSD is relocating the current greenery operation and developing a new OPF to comply with State Water Resources Control Board WQ2015-0121-DWR General Waste Discharge Requirements for Composting Operations (Composting WDR) and to address future operational needs. The COSD has identified North Miramar Landfill (closed and capped) and the adjacent area known as the East Mesa as the potential siting for the proposed OPF (collectively, the Site, Figure 1). The purpose of this study was to evaluate the western limit of North Miramar Landfill waste through geophysical survey to the support the development of the RFP for the OPF and future site design and construction.

2. INVESTIGATION

2.1 Site Conditions

The Site is located at Miramar Landfill approximately 0.8 miles north of the entrance at Convoy Street in San Diego, California. The East Mesa is bound to the west and north by Convoy Street, to the east by the western limits of the closed and capped North Miramar Landfill, and to the south by the approximately 15% slope to San Clemente Canyon. The COSD identified the East Mesa as the potential location for the intake under-roof structure and material drop-off for the proposed OPF. North Miramar has been identified as the location for the compost, chipping and

Mr. Luis Campos 31 August 2020 Page 2



grinding, and storage operations for the proposed OPF. A stormwater drainage currently runs between the East Mesa and the western slope of North Miramar Landfill.

2.2 Geophysical Survey

Geosyntec retained Southwest Geophysics (SW Geo) to provide geophysical survey services to assess the limits of waste shown on Figure 1 of Attachment A within the study area. SW Geo conducted its survey on 29 and 30 June 2020 utilizing Geonics EM31 MK2 terrain conductivity meter (EM31) and Geometrics G858 cesium vapor magnetometer (MAG) to identify changes in subsurface features indicative of waste. Data was collected at 10 to 15-ft traverses along the suspected limit of waste boundary, approximately 1400-ft long within the study area. The EM31 survey produced evidence of relatively conductive materials along the mid-eastern portion of the Site (Attachment A, SW Geo, 2020, Figure 3a and 3b) that are likely indicative of waste. This feature gradually turns into more resistive materials to the south and west of the site towards the ravine. The MAG data suggested several anomalous areas with a relatively high magnetic response that can be attributed to surficial metallic objects at the site (Attachment A, SW Geo, 2020, Figure 3c). The results of the EM31 and MAG data indicate the limit of waste follows the west grade of North Miramar Landfill near the toe of the slope. The limit of waste is east of the ravine with a range of offset distances (bottom of ravine to limit of waste), ranging from 50 to 90 feet along the study area. Figure 1 attached shows the approximate limits of waste within the study area.

3. CONCLUSIONS AND RECOMMENDATIONS

The purpose of this study was to evaluate the limits of waste utilizing geophysical surveys to assess the subsurface conditions at the proposed siting of the OPF.

Based on the results of the geophysical survey the limit of waste follows the North Miramar Landfill west toe slope and is approximately 50- to 90-ft east of the stormwater drainage. Based on the results, waste is not anticipated to be encountered within the footprint of the East Mesa nor within the stormwater drainage. The delineation identified a relatively clear waste delineation; therefore, review of aerial photographs, subsurface exploration, and/or additional geophysical survey(s) are not recommended at this time.

The thickness of cover soil over the waste was not evaluated in this study and should be further explored prior to construction of the proposed OPF.

Mr. Luis Campos 31 August 2020 Page 3



Prepared by:

Madeline Downing Senior Staff Engineer Rebecca Oliver, P.E. Principal Engineer

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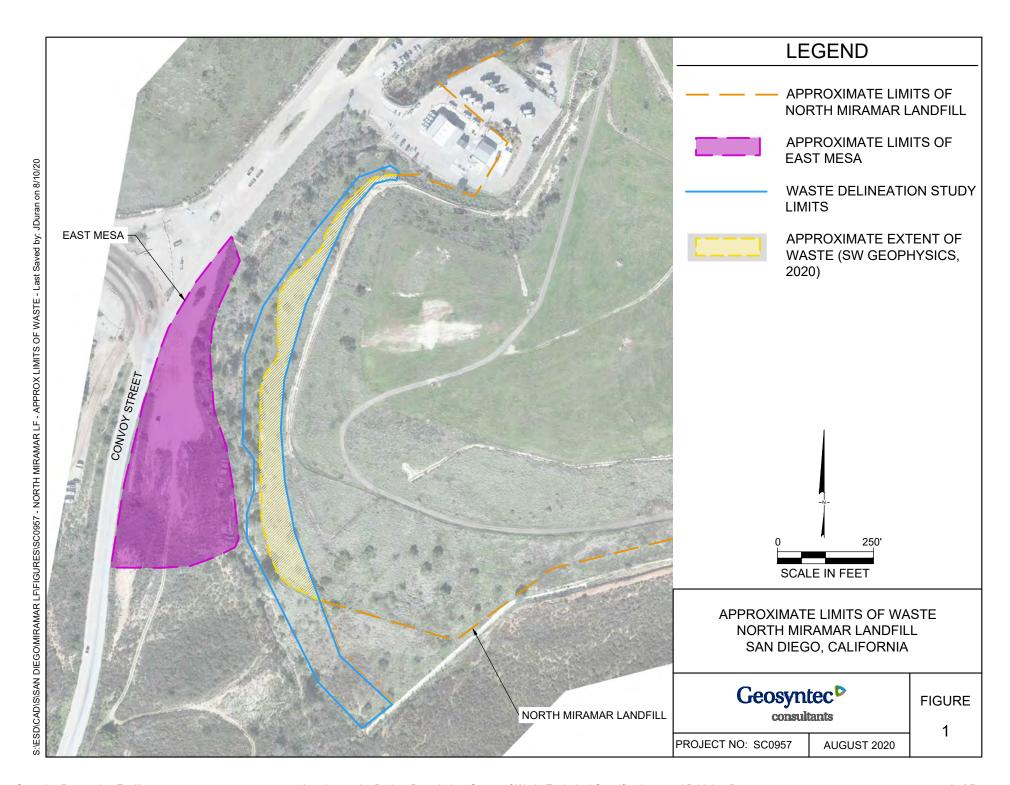
Attachments:

Figure 1 – Site Layout Attachment A – Geophysical Survey (SW Geo, 2020)

References

(SW Geo, 2020) Southwest Geophysics (SW Geo), 2020. Geophysical Evaluation, Miramar Greenery Relocation, Miramar Landfill, San Diego, CA, dated July 2020.

FIGURE 1





ATTACHMENT A GEOPHYSICAL SURVEY

SC0957 North Miramar (west side) waste delineation memo 08312020.md

GEOPHYSICAL EVALUATION

MIRAMAR GREENERY RELOCATION

San Diego, California

PREPARED FOR:

Ms. Madeline Downing Geosyntec Consultants 10875 Rancho Bernardo Road, Suite 200 San Diego, California 92127

PREPARED BY:

Atlas Technical Consultants, LLC 6280 Riverdale Street, Suite 200 San Diego, California 92120

July 20, 2020

July 20, 2020

Atlas No. 120136SWG Report No. 1

MS. MADELINE DOWNING
GEOSYNTEC CONSULTANTS
10875 RANCHO BERNARDO ROAD, SUITE 200
SAN DIEGO, CA 92120

Subject: Geophysical Evaluation

Miramar Greenery Relocation

San Diego, California

Dear Ms. Downing:

In accordance with your authorization, Atlas has performed a geophysical evaluation pertaining to the Miramar Greenery Relocation project located at Miramar Landfill in San Diego, California. Specifically, our services included the performance of electromagnetic (EM) and magnetic (MAG) evaluations over a portion of the property. The primary purpose of the study was to assess the limits and/or extent of landfill in the study area. Our services were conducted on June 29 and June 30, 2020. This report presents the methodology, equipment used, analysis, and findings.

We appreciate the opportunity to be of service on this project. Should you have any questions related to this report, please contact the undersigned at your convenience.

Sincerely,

Evan C. Anderson Senior Staff Geophysicist

ECA/AIS/PFL/pfl/ds

Distribution: Ms. Madeline Downing at Mdowning@Geosyntec.com

Patrick F. Lehrmann, P.G., P.Gp Senior Staff Geophysicist

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FIGURES

Figure 1 – Site Location Map

Figure 2 – Site Map

Figure 3a – Site Data Map, EM31 Quadrature Phase Data

Figure 3b - Site Data Map, EM31 In-Phase Data

Figure 3c - Site Data Map, MAG Data

Figure 4 – Site Photographs

1. INTRODUCTION

In accordance with your authorization, Atlas has performed a geophysical evaluation pertaining to the Miramar Greenery Relocation project located at Miramar Landfill in San Diego, California (Figure 1). Specifically, our services included the performance of electromagnetic (EM) and magnetic (MAG) evaluations over a portion of the property. The primary purpose of the study was to assess the limits and/or extent of landfill in the study area. Our services were conducted on June 29 and June 30, 2020. This report presents the methodology, equipment used, analysis, and findings.

2. SCOPE OF SERVICES

Our scope of services included delineation of landfill limit. Specifically, we conducted the following scope of services for the study:

- Performance of EM and MAG evaluations across the study area using a Geonics EM31 MK2 terrain conductivity meter and Geometrics G858 cesium vapor magnetometer with a Trimble Pro XRS global positioning system (GPS) for spatial control.
- Compilation and geophysical analysis of the data collected.
- Preparation of this data report presenting our findings and conclusions.

3. SITE AND PROJECT DESCRIPTION

The project site is located at Miramar Landfill about 0.8 mile north from the entrance at Convoy Street in San Diego, California (Figure 1). The site is an undeveloped portion of land to the east of Convoy Street. It is bounded by a ravine to west and north and extends up a gradual slope to the east. To the south, the study area is bounded by a storm drain culvert. Trees and chest high vegetation were present throughout the study area. Reportedly, the approximate waste limit extends from the east up to but not past the western ravine. Figures 2a, 3a through 3c, and 4 depict the general site conditions.

Based on our discussions with your office, it is our understanding that plans to redevelop the site are proposed, and that your office is conducting a site characterization study of the study area. The results of our EM and MAG evaluations will assist in the plan and development of the site.

4. GEOPHYSICAL INSTRUMENTATION AND APPLICATIONS

Our evaluation included the delineation of the horizontal extent of the landfill at the site. Specifically, the collection of EM and MAG data were used to assess the limits of the landfill.

The following sections provide a discussion of the methods and instrumentation used.

4.1 Electromagnetic (EM31)

EM data were collected at the site using a Geonics EM31 MK2 terrain conductivity meter in order to assess the presence of conductors and non-conductors in the subsurface. The EM31 is a frequency domain terrain conductivity meter that operates at a frequency of 9.8 kHz and has an effective exploration depth of roughly 20 feet. It is comprised of two coils: a transmitter coil and receiver coil. The transmitter coil induces circular eddy currents that generate a magnetic field in the subsurface, which is related to the terrain conductivity. There are two components of the magnetic field which are measured by the EM31; the quadrature phase (QP) and the in-phase (IP) components. The quadrature phase provides electrical conductivity measurement, in millimho per meter (mmho/m). The in-phase measurements are the ratio of the induced secondary magnetic field to the primary magnetic field in parts per thousand (ppt). The in-phase measurement is significantly more sensitive to large metallic objects than the quadrature phase. Before collection of EM31 datasets, calibration of the instrument was performed.

The EM31 data were collected in conjunction with a Trimble Pro XRS GPS along profile lines that were roughly spaced 10 to 15 feet apart, access permitting. The data were downloaded to a laptop computer and then processed and analyzed using DAT31W (Geonics, Inc., 2018) and Surfer (Golden Software, Inc., 2002).

4.2 Magnetic (MAG)

Magnetometer data was collected in the study area in order to assess the presence of ferromagnetic metals, which are typically contained in industrial and municipal waste. The MAG data were acquired using a Geometrics G-858 cesium vapor magnetometer, which measures the strength of the earth's magnetic field and the superposed magnetic field of ferromagnetic materials in its vicinity. The precision of the instrument is approximately 1/10th gamma. The earth's magnetic field strength at the project site's latitude was roughly 46,058 gammas (https://www.ngdc.noaa.gov/geomag-web/#igrfwmm). The earth's magnetic field is inclined in the direction of the north magnetic pole. Because of this inclination, a buried ferromagnetic object is typically expressed as a paired anomaly with a positive (above background) slightly to the south and a negative slightly in the direction of magnetic north. Solar geomagnetic activity for the magnetometer evaluation was predominantly quiet, according to the NOAA (National Oceanic and Atmospheric Administration) webpage (ftp://ftp.swpc.noaa.gov/pub/warehouse). In addition, pre and post-evaluation measurements were collected at a test station to assess diurnal variations. Variations less than 20 gammas were encountered. Due to these relatively small magnetic field variances, no diurnal corrections were made to the recorded magnetometer data.

The MAG data were collected in conjunction with a Trimble Pro XRS GPS along profile lines that were roughly spaced 10 to 15 feet apart, access permitting. The data were downloaded to a laptop computer and then processed and analyzed using Magmap (Geometrics, 2017) and Surfer (Golden Software, Inc. 2002).

5. FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

As previously discussed, the primary purpose of our study was to evaluate the limits and/or extent of landfill debris in the study area through the collection of EM31 and MAG data. The results of EM31 QP and IP are presented in Figures 3a and 3b, respectively. Figure 3c shows the results for the MAG data.

The QP results from the EM31 are illustrated in Figure 3a using both contour lines and a color gradient image in millimhos per meter (mmho/m). The cool colors (blue) represent low values and lower conductivity, whereas the warm colors (red/pink) represent high values and higher conductivity. The QP data results indicate several areas underlain by relatively conductive materials. Specifically, the areas along the mid-eastern portion of the site. As seen in the data, this feature gradually turns into more resistive materials to the south and west of the site towards the ravine. This feature could be related to the more conductive nature of landfill materials in comparison to the background soils.

The IP results from the EM31 are illustrated in Figure 3b which are also presented in both contour lines and a color gradient image in parts per thousand (ppt). The warm colors represent higher values and the cool colors represent lower values in ppt. Similar to the QP results, the IP data shows a slight increase in values towards the mid-eastern portion of the site. This feature is possibly related to buried metal debris at the site.

The MAG results are illustrated in Figure 3c using both contour lines and a color gradient image in gammas. Relatively significant features are revealed in the MAG data as hot (red/purple) and cool (blue) colors. Generally, the magnetic data revealed several anomalous areas with a relatively high magnetic response. Several of these anomalous features can be attributed to surficial metallic objects observed at the site, such as concrete debris with metal reinforcement.

In conclusion, the results of our geophysical evaluation provide a characterization of the site conditions. The MAG and EM31 study results delineate possible areas of buried metal debris and subsurface conductive materials typically associated with landfill materials. Slight variations and discrepancies in the response of the EM and MAG profiles to delineate the lateral limits of the landfill in the study exist. The cause and nature of these variations are unknown.

6. LIMITATIONS

The field evaluation and geophysical analyses presented in this report have been conducted in general accordance with current practice and the standard of care exercised by consultants performing similar tasks in the project area. No warranty, express or implied, is made regarding the conclusions and opinions presented in this report. There is no evaluation detailed enough to reveal every subsurface condition. Variations may exist and conditions not observed or described in this report may be present. Uncertainties relative to subsurface conditions can be reduced through additional subsurface exploration. Additional subsurface evaluation will be performed upon request.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Atlas should be contracted if the reader requires additional information or has questions regarding the content, interpretations presented, or completeness of this document. This report is intended exclusively for use by the client. Any use or reuse of the findings, conclusions, and/or recommendations of this report by parties other than the client is undertaken at said parties' sole risk.

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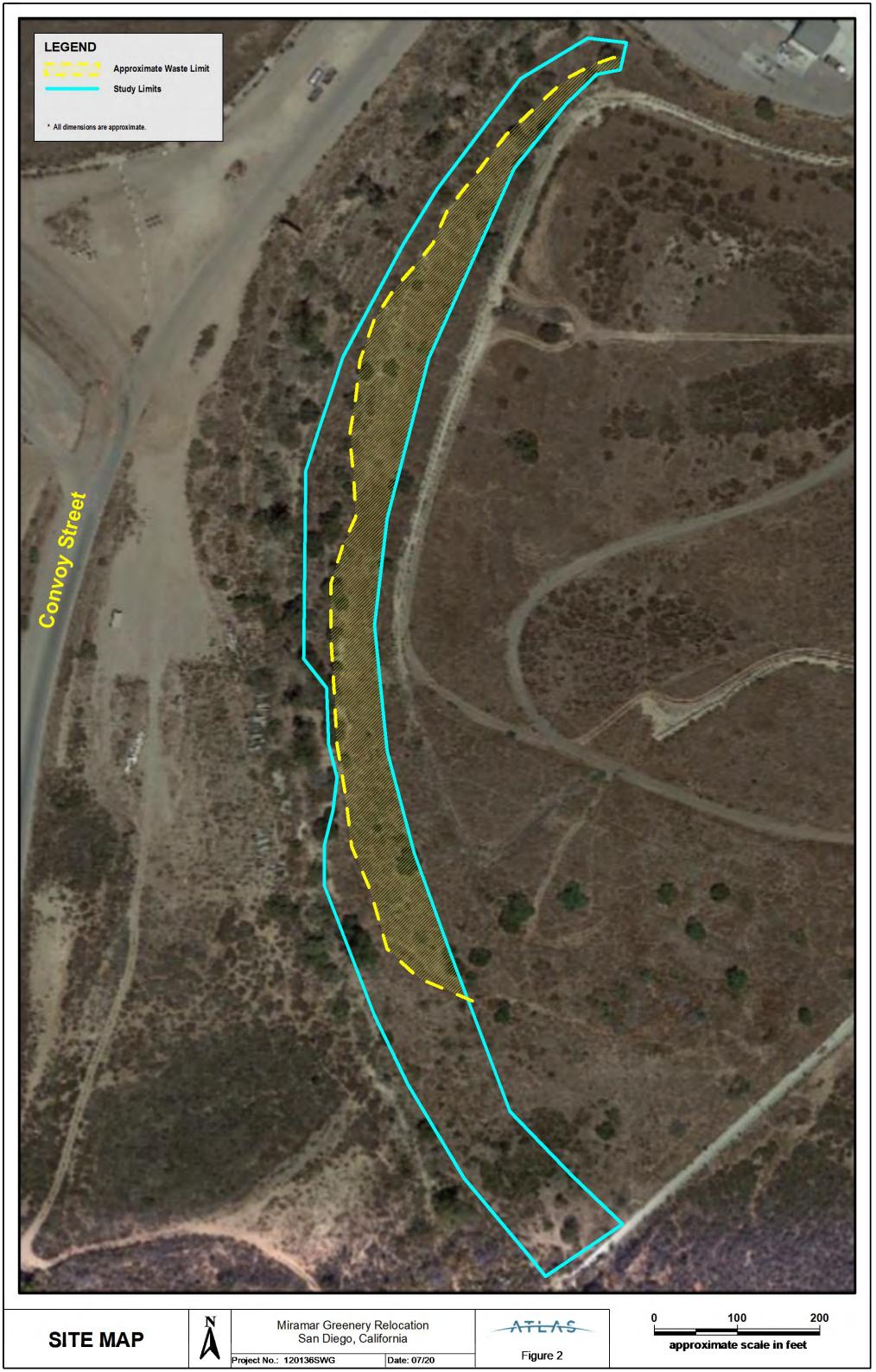
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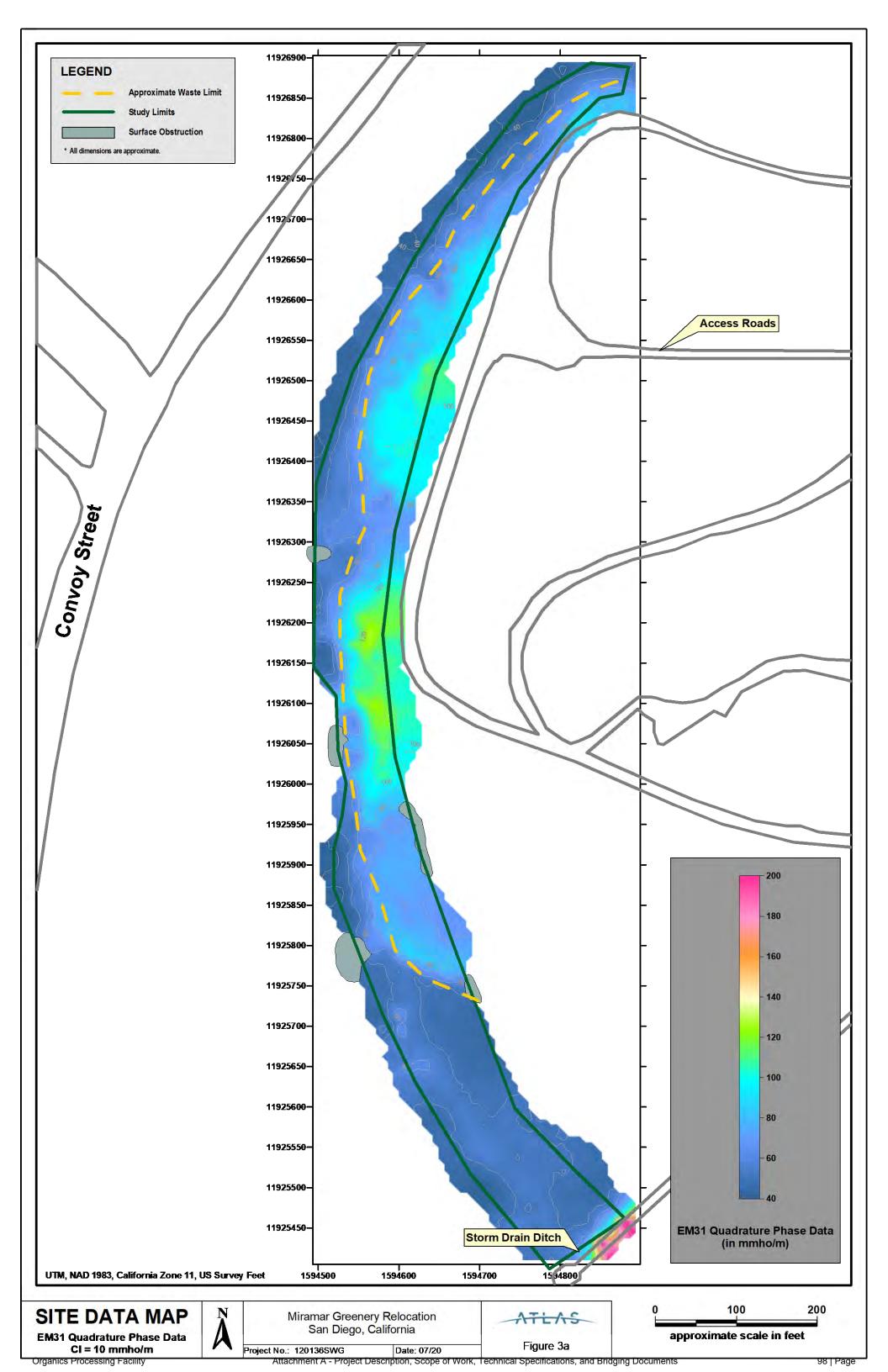
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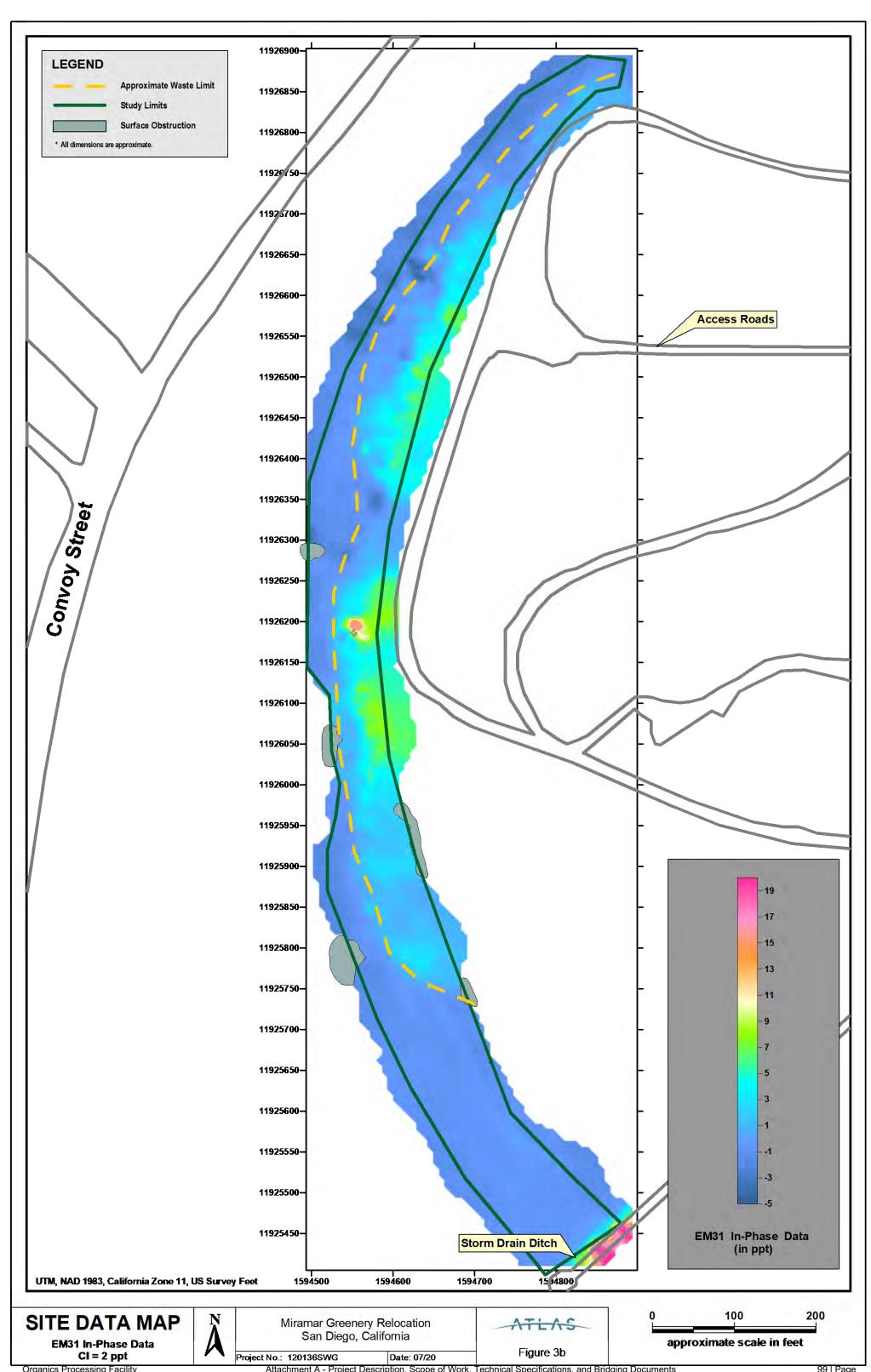
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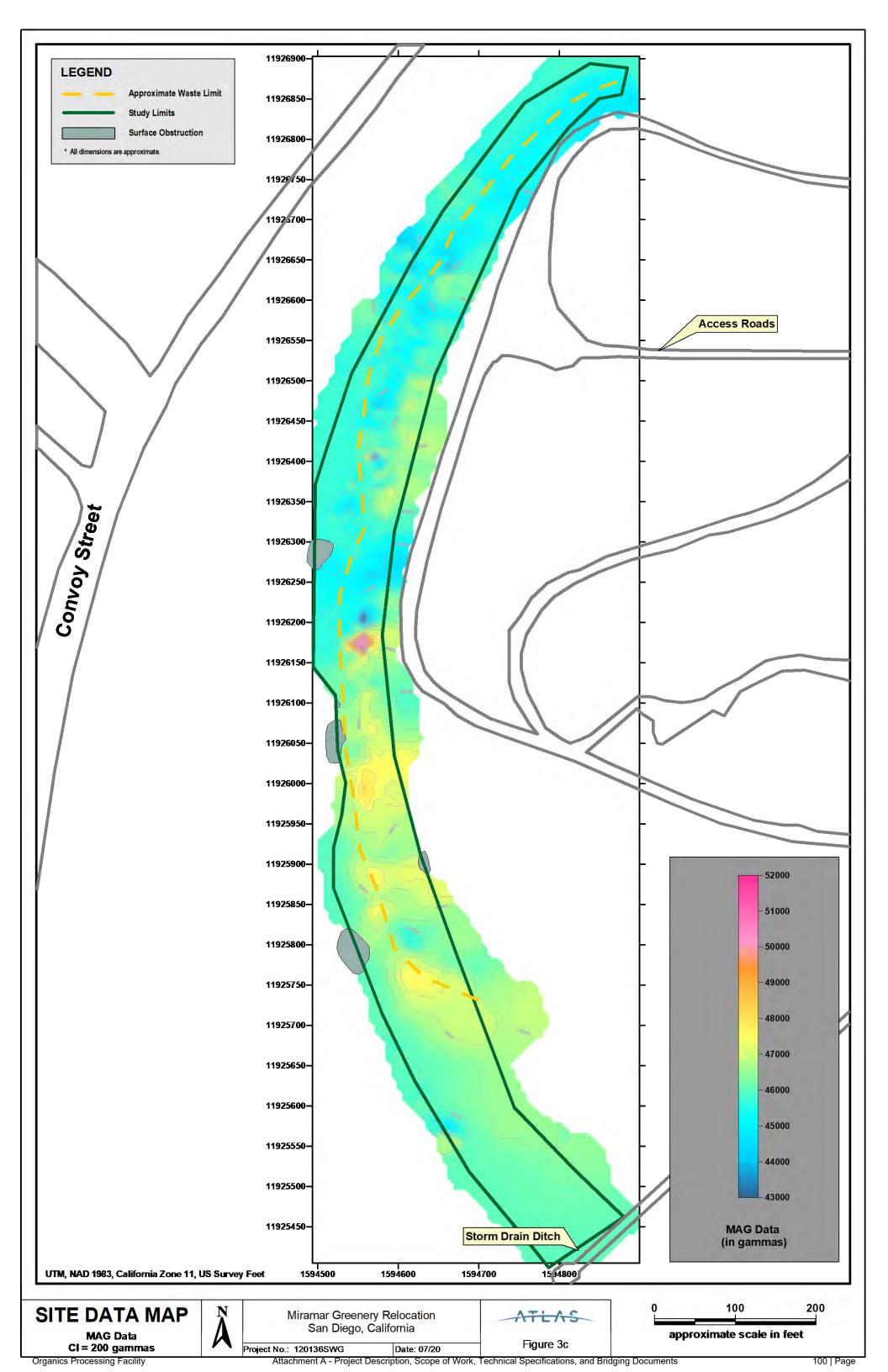
Telford, W.M., Geldart, L.P., Sheriff, R.E., and Keys, D.A., 1976, Applied Geophysics, Cambridge University Press.

















SITE PHOTOGRAPHS

Miramar Greenery Relocation San Diego, California

Project No.: 120136SWG Date: 07/20



Appendix E Site Composting Information

Appendix E-1 Compostable Materials Handling Facility Permit

Compostable Material	s Handling	Facility Pern	nit	37-AB-0003	
1. Name and Street Address of Facility: 2. Name and Mailing Address of Operator:				3. Name & Mailing Address of Owner:	
Miramar Greenery Composting Facility 5180 Convoy Street San Diego, CA 92111	City of San Die Environmental 9601 Ridgehav San Diego, CA	Services Department en Court	N P	United States of America Marine Corps Air Station Mirama Post Office Box 45007 San Diego, CA 92145	
4. Specifications:					
a. Permitted Operations:	Compostable M	aterials Handling Fac	ility		
b. Permitted Hours of Operation:	그는 사람들이 살아 있다면 그는 사람들이 되었다면 하는 사람들이 되었다면 하는 사람들이 되었다면 하는데 살아 되었다면 하는데 살아 없다면 하는데 살아 없었다면 하는데 살아 없다면 하는데 살아 없다면 하는데 살아 없다면 하는데 살아 없었다면 하는데 싶다면 하는데 하는데 싶다면 하는데 없었다면 하는데 싶다면 하는데 싶다면 하는데 없었다면 하는데 싶다면 하		Saturd	ay - Friday: 7AM - 4:30 PM ay - Sunday: 7:30 AM - 4:30 PM	
	Ancillary opera	tions:	Dawn	to dusk	
c. Permitted Tonnage/Volume:	690 tons per day	y maximum			
d. Key Parameters:	4		3		
Permitted area:	74.46 acres				
Design Capacity:	Site Storage: 301,000 cubic yard product on site		yards o	ds of feedstock, active compost and	
	Annual Capaci	ty: 1,000,000 cubi	c yards		
Upon a significant change in design or of The attached permit findings and condit issued solid waste facility permit.	operation from that ions are integral pa	described herein, this parts of this permit and st	ermit is apersed	s subject to revocation or suspension e the conditions of any previously	
5. Approval:		6. Local Enforceme	nt Age	ency (LEA) Name and Address:	
William E. Prinz, REHS, MPA LEA Program Manager Approving Officer Signature)	City of San Diego Development Services Department Solid Waste Local Enforcement Agency (LEA) 1010 Second Avenue, Suite 600, MS 606L San Diego, CA 92101			
7. Date Received by CalRecycle: May 13, 2014		8. CalRecycle Concurrence date: May 16, 2014			
O. Permit issuance date: May 22, 2014	10. Permit review date: May 22, 2019		1	1. Owner/Operator transfer date:	

Compostable Materials Handling Facility Permit

37-AB-0003

12. Legal Description of Facility:

Latitude and longitude: N 32° 51.363" W 117° 9.786
Township 15S, Range 3W Section 23 and 24 San Bernardino Meridian

13. Findings:

- a. This permit is consistent with the City of San Diego Non-Disposal Facility Element, Seventh Amendment approved by the California Integrated Waste Management Board (CIWMB) on December 16, 2008.
- b. The LEA finds that this permit is consistent with the standards adopted by the California Department of Resources Recycling and Recovery (CalRecycle), pursuant to Public Resources Code (PRC) 44010.
- c. The LEA has determined that the design and operation of the facility is consistent with the State Minimum Standards for Compostable Materials Handling Facilities pursuant to 44009.
- d. Negative Declaration No. 159323 was filed with the State Clearinghouse (SCH# 2008121119) and certified by the City of San Diego Development Services Department on February 24, 2009. The Negative Declaration describes and supports the design and operation, which will be authorized by the issuance of this permit.
- e. A consistency review was conducted by the City of San Diego Development Services Department for proposed permit revisions regarding extended storage times of feedstock and a letter issued on January 8, 2014 determined that the proposed revisions were consistent with the previously certified Negative Declaration No. 159323.

14. Prohibitions:

a. The permittee is prohibited from accepting the following wastes:

Hazardous, radioactive, medical (as defined in Chapter 6.1, Division 20 of the Health and Safety Code), liquid, designated or other hazardous wastes requiring special treatment or handling, except as identified in the Report of Composting Site Information and approved amendments thereto and as approved by the LEA and/or other federal, state and local agencies.

The Miramar Greenery is prohibited from accepting treated wood waste, painted wood waste, mammalian flesh, medical waste, mixed demolition debris and mixed construction debris.

The following documents describe and/or restrict the operation of this facility.

Document	Date Document		Date	
Report of Composting Site Information	Feb. 2014	Conformance with City of San Diego Non-Disposal Facility Element	Dec. 16, 2008	
Odor Impact Minimization Plan	Feb. 2014	Negative Declaration	Feb. 24, 2009	
Consistency Review	Jan. 8, 2014		1 10, 21, 2005	

Compostable Materials Handling Facility Permit

37-AB-0003

16. Self Monitoring:

The owner/operator shall submit the results of all self monitoring programs to the LEA within 30 days of the end of the reporting period.

	Program	Reporting Frequency
a.	The types and quantities (in tons or cubic yards) of green material, food scraps, grease, manure, source-separated woody material (including dimensional lumber), and dry wall.	Quarterly
ь.	The number of vehicles using the site per day.	Quarterly
c.	Results of load checking program including the quantities of physical contaminants disposed of at the landfill. Include quantities of hazardous and other prohibited wastes removed from feedstock, additives and amendments.	Quarterly
đ.	Copies of all complaints regarding this facility and the operator's actions taken to resolve these complaints.	Quarterly
e.	Sampling results for pathogenic organisms and metals as required by 14 CCR, Chapter 3.1, Article 7.	Quarterly
f.	A summary of special occurrences including, but not limited to, fires, explosions, the discharge and disposition of hazardous waste, and significant injuries, accidents or property damage.	Quarterly

17. Local Enforcement Agency (LEA) Conditions:

- The operator shall comply with all applicable state minimum standards for compostable materials handling facilities as specified in 14 CCR.
- Additional information concerning the design and operation of the facility shall be furnished upon request and within the timeframe specified by the LEA.
- c. This Solid Waste Facility permit is subject to review by the LEA and may be suspended or revoked at any time for sufficient cause in accordance with Division 30 of the PRC, Part 4, Article 2, Sections 44305 et seq. and associated regulations.
- d. The LEA reserves the right to suspend or modify feedstock receiving and handling operations when deemed necessary due to an emergency, a potential health hazard or the creation of a nuisance.
- e. A nuisance, as it applies to this facility, shall be defined as anything which is injurious to human health or is indecent or offensive to the senses and interferes with the comfortable enjoyment of life or property, and affects at the same time an entire community or neighborhood or any considerable number of persons although the extent of annoyance or damage inflicted upon the individual may be unequal, and which occurs as a result of the storage, removal, transport, or processing of compostable material.

Compostable Materials Handling Facility Permit

37-AB-0003

17. LEA Conditions (continued):

- f. The operator shall maintain a copy of this permit, the Report of Composting Site Information (RCSI), and a copy of (or easy access to) the State Minimum Standards for Compostable Material Handling Facilities at the site at all times.
- g. Any change that would cause the design or operation of the facility to not conform to the terms and conditions of this permit is prohibited. Such change may be considered a significant change, requiring a permit revision. In no case shall the operator implement changes without first submitting a written notice of the proposed change, in the form of a Report of Facility Information Amendment, to the LEA at least 180 days in advance of the proposed change.
- h. Processed green material shall be placed in active composting windrows at a frequency to minimize traffic flow problems, vector propagation and attraction, odor generation and to prevent fires.
- Windrows shall be managed to prevent process water (leachate) from percolating through windrows and flowing onto the ground. Efforts shall be taken to absorb liquid or excessive moisture from leaching out of active compost windrows or finished products.
- j. Traffic flow into, on, and out of the facility shall be controlled to minimize:
 - 1) Interference and safety problems with traffic on adjacent public streets or roads;
 - 2) On-site safety hazards, and
 - 3) Interference with facility operations.
- k. There shall be easily visible road signs and/or traffic control measures, including traffic spotters, which direct traffic to areas where wastes or recyclable materials will be unloaded and to where finished products are loaded. The LEA may require additional signs and/or measures to protect personnel and public health and safety.
- The operator shall implement a preventative maintenance program to monitor and promptly repair or correct deteriorated or defective facility conditions to maintain compliance with state minimum standards and LEA permit conditions. All other aspects of the facility shall be kept in a state of reasonable repair.
- m. Dust shall be minimized through the routine application of water along roadways to control dust generation by vehicles and prior to turning windrows. The LEA may require additional dust minimization measures, including but not limited to, spraying of feedstock or compost during grinding and screening processes, respectively.
- Windrows shall not be turned during periods of winds greater than 30 miles per hour to prevent the offsite migration of dust and odors.
- Additional measures may be required by the LEA to address specific public health and safety and nuisance issues including, but not limited to, traffic, odor, litter, physical contaminants, dust, particulates and pathogen and vector minimization.

Appendix E-2 Compost Site Information

Report of Compost Site Information

Miramar Greenery
Composting Facility

City of San Diego
Environmental Services Department
9601 Ridgehaven Court
San Diego, California
92123



Updated February 2019

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I. INTRODUCTION

The following Report of Composting Site Information (RCSI) describes the City of San Diego's municipal composting operation commonly referred to as the Miramar Greenery. The Greenery is located at the Miramar Landfill on the southwestern portion of Marine Corps Air Station Miramar, north of State Route 52, east of the Interstate 805 and west of State Route 163. The vicinity is referred to as West Miramar Landfill Phase I area. The Greenery was originally permitted under a "Standardized Tier" composting permit. Changes in Title 14 regulations in 2003 eliminated the Standardized Tier to a "Full" permit. At the time that change occurred, the City notified the agencies that it had plans to increase the volume of material processed at the Greenery in the future, which resulted in the 2009 permit expansion and revision. In 2012 the City implemented a managed competition process for the Miramar Greenery. In accordance with CalRecycle, this RCSI is an update to the 2014 RCSI. CalRecycle composting regulation (Title 14, CCR, Chapter 3.1) set forth design and operating standards for composting facilities. This RCSI is formatted in accordance with the regulations, (§ 18227 Report of Composting Site Information).

FACILITY NAME: Miramar Greenery Composting Facility

(West Miramar Landfill)

FACILITY LOCATION: Township 15S, Range 3W, Sections 23,24

San Bernardino Meridian

FACILITY ADDRESS: 5180 Convoy Street San Diego, California 92111

LANDOWNER: United State of America, Department of the Navy,

United States Marine Corps

OPERATOR: City of San Diego

Environmental Services Department

9601 Ridgehaven Court, Suite 310, MS 1103B

858-492-5010

REGULATORY CONTACTS: Bill Prinz

City of San Diego Developmental Services Department

1010 Second Avenue, Suite 600, MS 606L

San Diego, California 92101-4998

619-533-3696

- <u>A. Project Overview.</u> Since 1986, the City of San Diego Environmental Services Department (ESD) has operated the Miramar Greenery Composting Facility (Greenery), a green material processing program at the Miramar Landfill located on the southern portion of Marine Corps Air Station Miramar (MCAS), north of State Route 52, east of Interstate 805, and west of State Route 163. The program involves the diversion of a range of compostable materials from landfill disposal, including source-separated green material, wood, drywall, food scraps including cutlery made from food products, vegetable and animal-based grease, animal bedding, paper and manure. Material that needs to be size-reduced is processed through a grinder. The Process to Further Reduce Pathogens (PFRP) is managed through an aerobic degradation process (see section IIB). The Greenery processes source-separated wood material into various landscaping products. Several products are screened, and may be stockpiled prior to marketing. The finished products are marketed directly from the Greenery. The design of operations and Greenery layout involved input and review from civil engineers and other staff competent in compost facility designs.
- B. Project Location and Access. The Miramar Greenery occupies a graded, unpaved area of approximately 74.46 acres located on stabilized intermediate cover of West Miramar Phase I Landfill (Vicinity Map, Figure 1). Access to the site is provided via the existing landfill access road, Convoy Street, off State Route 52. A Site Plan is included in Appendix B (Figure 2) showing layout of loading, storage, processing, and unloading areas. Adequate parking is provided at the existing Operations Office area for personnel and visitors.
- <u>C.</u> <u>Surrounding Land Use</u>. The surrounding land use is dominated by the landfill. The Greenery is situated within the larger, approximately 1,400-acre, footprint of the Miramar Landfills. These areas are lease from Marine Corps Air Station Miramar.
- <u>D.</u> Hour of Operation. The Greenery receives compostable materials during landfill hours (7:00 a.m. to 4:30 p.m. Monday to Friday, and 7:30 to 4:30 on Saturday). Ancillary operations (such as maintenance, etc.) may occur beyond these hours and on Sundays, but within the limits of the lease. The lease specifies that lighting must not interfere with MCAS flight operations.
- E. <u>Permits and Approvals</u>. Several permits and approvals govern the design and operation of the Greenery. Copies of existing (or expected) permits are included in Appendix A.
 - 1. CEQA, City of San Diego Development Services Department.
 - 2. Conformance with San Diego Integrated Waste Management Plan, City of San Diego Non-Disposal Facility Element.

- 3. Compostable Materials Handling Permit, San Diego Development Services Department (LEA), CalRecycle.
- 4. Conditional Use Permit (10632-0), San Diego Planning Department, (June 1981).
- 5. Waste Discharge Requirements, Regional Water Quality Board, for the Miramar Landfill (WDR 93-86).
- 6. National Pollutant Discharge Elimination System Permit for the landfill (9-37S005556).

II. REPORT OF COMPOSTING SITE INFORMATION

A. Composting Processes. The Greenery is designed to receive 690 tons per day, about 2.325 cubic yards (one ton = 3.37 cubic yards). Materials are delivered by City curbside collection crews, commercial haulers, businesses, and residents (self-haul). Feedstocks accepted at the Greenery include source-separated green material, wood, drywall, food scraps including food-based cutlery, vegetable and animal grease, animal bedding, paper and manure. Food scraps (excluding coffee grounds) and grease are mixed and covered with appropriate bulking material by the end of the operating day they are received. Green material commingled with food scraps is processed and placed in windrows within three days of receipt.

Various feedstocks are blended to meet customer specifications and regulatory requirements. Additives, including minerals and sand, synthetic and organic fertilizers, may be added to adjust the moisture level, carbon to nitrogen ration, porosity, and/or market demand. "Amendments" may be added to stabilized or cured compost to provide for desirable attributes, including bulk density, nutrient value, pH, and soils blend. The amounts of additives and amendments are determined by feedstock supplies and market conditions.

- B. Operations and Handling. The operations conducted at the Greenery consist of eight processing steps: receiving, load checking, unprocessed material storage, processing, composting, screening, monitoring, curing and export. The Greenery uses fences and a night security guard to prevent unauthorized human or animal access while the Greenery is closed. During the hours of operation scale house personnel and spotters act as on duty attendants to provide information and safe traffic flow. Personnel are equipped with radios or cell phones for use in an emergency. There are no enclosed processing areas utilized at the Greenery. Restrooms, parking and office buildings are located adjacent to the operations areas.
 - Receiving. Upon entrance to the Miramar Landfill via the Fee Booth on Convoy Street, vehicles are directed by Fee Booth personnel to the Greenery operation. Fee Booth personnel visually screen incoming feedstock loads. Fee Booth personnel check for possible contamination with unacceptable or prohibited wastes, such as unprocessed mammalian tissue, medical waste and hazardous waste. Loads containing waste are sent to the landfill for disposal or referred to hazardous material inspectors. Signs are posted along the internal haul roads to guide customers to the designated

unloading areas. The location of the Greenery operation is designed to minimize traffic conflicts between Greenery and landfill-bound vehicles and heavy landfill equipment. Separate unloading areas are often provided for the self-haul (residents and businesses) and the City curbside loads to reduce safety hazards for customers, and to make unloading and load checking activities more efficient. A separate area is provided for the loading of the finished product. Incoming traffic carrying processed or unprocessed green material are received and weighed at the landfill's Fee Booth. Daily weight records maintained by ESD monitor the amount of feedstock entering the landfill.

Load Checking. All feedstocks processed at the Greenery are source-separated, thereby reducing contamination. Before materials proceed past the Fee Booth, materials are inspected to ensure that the load fits within Greenery feedstock specifications and does not contain any prohibited or hazardous materials. If materials are unsuitable for Greenery operations or are heavily contaminated, the load is directed to the landfill. Once a load arrives at the Greenery, ESD personnel inspect the feedstock while it is being unloaded. Any contaminated or unsuitable materials are separated and either returned to the customer or placed in a roll-off bin, which is disposed of at West Miramar Landfill at least every seven days. A running total of bins of contamination removed is maintained by Greenery personnel. Any customer loads that are rejected and sent from the Greenery to the disposal area are recorded in the Special Occurrence Log and the customer name and license plate information is recorded. One visual load check is recorded daily and load check records are kept onsite in the Operations Office. ESD also has onsite Hazardous Materials Inspectors who visit the Greenery on a routine basis. They are available throughout the day on an on-call basis to handle any hazardous waste that may be discovered. Spotters direct traffic into position to unload and have the responsibility to inspect loads before and during the unloading process. Pickers remove trash scattered throughout the Greenery and may remove materials not acceptable for processing or composting from the feedstock prior to grinding. Not only do these activities reduce contamination, they also reduce potential damage to grinding and processing equipment.

Loads are observed for litter, and more close examination is provided to loads from customers with a history of trying to conceal contaminants. The equipment operators also check feedstocks prior to grinding. If prohibited materials are identified, they are removed by either the customer, equipment operator, or a spotter/picker. Any contaminated or unsuitable materials are separated and either returned to the customer or placed in a waste receptacle.

• Tipping Areas and Unprocessed Material Storage. Unprocessed materials are windrowed prior to processing. Heavy equipment is used to push unprocessed material into windrows. Incoming material may also be subject to additional contaminant removal, using litter crews or other heavy equipment to spread the load before pushing it into a windrow. Multiple tipping areas are used for receiving green material. Loads are separated to tipping areas depending on vehicle and feedstock type, season, product specifications or product demand.

Green material commingled with food scraps is scheduled for processing within three days of receipt (food scrap ratio is less than 10% total weight of material). Green material commingled with greater than 10% food scraps by weight is scheduled for processing the day after receipt.

Unprocessed dimensional lumber and large logs are stockpiled separately and processed on an as needed basis.

- **Processing.** Material requiring size reduction is processed using a grinder. Front-end loaders and other loading equipment are used to feed the material into the grinder. Heavy equipment operators perform another visual load check prior to processing to ensure foreign object and material that may damage any equipment is not loaded into the grinder. During grinding a spray bar may be used to control dust and add pile moisture when appropriate. Once processed through the grinder, material is either pushed directly into a windrow or stockpiled depending on operational needs. Windrows can be open windrows, aerated static piles, and/or ag bags. Any materials requiring special handling, such as food waste and grease, are mixed and covered with appropriate bulking material by the end of the operating day they are received.
- Chipping and Grinding. Ground green material is sometimes marketed or used for adjacent landfill operations. The material is processed through the grinder and placed in a Windrow. Heavy equipment picks up the material for beneficial reuse on slopes on an as needed basis. When a windrow of ground green material is in use temperatures are monitored weekly, or as determined by the LEA. Unused material is reincorporated into windrows and composted. The Greenery anticipates using a primary chip and grind material storage area, but may phase in other areas as needed.
- Composting (Covered Aerated Static Pile CASP). Material destined to undergo the PFRP is windrowed. The Greenery uses both open aerated windrow method of composting and is currently implementing a forced air, covered aerated static pile (CASP) method, although bags or other processes may be used. Windrows are initially formed using loaders or other heavy equipment (see section G) and are turned using specialized windrow-turning equipment or front-end loaders. CASP will use positive aeration with 3 turning phases. An absorptive bed of previously composted overs material, plenum, will be applied at the base of the windrow in phase 1 and phase 2 to alleviate possible leachate. All tarps used to cover the CASP are counter weighed to minimize possible emissions from the piles. Water is added to the windrows by using a water truck to maintain moisture content that promotes microbial decomposition and pathogen reducing temperatures. Composted material is typically moved to a curing area and aged from 30 to 180 days, depending on product specifications, season and market demands. The curing area(s) are located upgradient from active compost areas.
- **Screening.** Compost may be processed through screening equipment to correctly size the finished product. Over-sized material may be subject to further screening or grinding, sale as finished product, reincorporated with incoming compostable material

or other beneficial landfill uses. The screened products are stockpiled and made available to customers.

- Monitoring and Testing. All compost is tested in accordance with the requirements of Title 14 CCR §17868.1. One composite sample is analyzed for every 5,000 CY of compost produced to ensure it does not exceed the maximum acceptable metal concentration limits specified in Title 14 CCR §17868.2, meets pathogen requirements specified in Title 14 CCR §17868.3, and does not exceed contamination requirements in Title 14 CCR §17868.3.1. Compost grab samples are pulled directly from finished windrows or from screened material stockpiles and are analyzed for presence and level of pathogen, metal concentration and contamination levels. Material that does not pass pathogen level requirements is put through additional processing and re-tested or sent for disposal or beneficial reuse. Micronutrient analysis are also conducted on screened compost to satisfy market needs and desires. Copies of all test results and monitoring activities are kept onsite for inspection by the LEA and other regulatory agencies. Windrow temperatures are monitored daily during PFRP, and weekly after that period. At least one temperature reading is taken every 150 feet of windrow. All active compost is maintained under aerobic conditions for at least 15 consecutive days in open aerated windrows and for 3 consecutive days in the CASP. Temperature probes are used to monitor temperatures. Moisture is determined by field experience, visual/hands-on examination, and verified periodically by laboratory analysis.
- Marketing and Export. Processed and screened materials are stockpiles in finished
 product areas for sale to customers. Finished material storage is up gradient from raw,
 unprocessed or processing materials. Some materials may be provided additional
 treatments, such as color enhancement. Greenery personnel may load finished product
 into both commercial and private vehicles.

Greenery products are sold to the general public, and large end-users such as City Departments, other governments agencies, landscape material brokers and private landscaping companies. The City disseminates information about the benefits of compost and mulch products at community events. As a service to its residents, the City allows residents to load their own compost and mulch at no cost.

• **Record Keeping**. Greenery operating records are kept or can be made available at the Operations Office. Computers in the office can be used to print out training data, windrow records, and tonnage data at any time.

Records are kept on any special occurrences encountered during operation and methods used to resolve problems arising from these events, including details of all incidents that required implementing emergency procedures. Records of temperatures and turnings during PFRP, and of visual load checks and rejections are kept in the Operations Office.

Records are also kept on any public complaints, including: 1) the nature of the complaint, 2) the date the complaint was received, 3) if available, the name, address,

and telephone number of the person or persons making the complaint, and 4) any actions taken to respond to the complaint.

Fee Booth operations provide in-coming quantity information, which is logged into the City computer system. Information gathered by Fee Booth operations on feedstock types and quantities is available at any time from the computers in the Operations Office. Information on sales of finished product is also retained in the Operations Office. The quantities of chipped and ground materials and compost produced varies as sales and operational needs vary, but information regarding volumes sold can be made available at any time in the Operations Office.

The Greenery Supervisor retains records of material testing including metal concentrations, fecal coliform and *Salmonella* species densities, temperature measurements, contaminant levels and dates of windrow turnings. Training records for operator training on physical contaminants, hazardous material recognition, odor impact management and emergency procedures are also kept by the Greenery Supervisor.

Records are kept on any serious injury to the public occurring at the Greenery and any complaint of adverse health effects to the public attributed to operations (Serious injury means any injury that requires inpatient hospitalization for some period more than 24 hours or in which a member of the public suffers a loss of any member of the body or suffers any degree of permanent disfigurement).

- C. Layout. A schematic drawing is provided in Appendix B. As shown in the drawing, there are areas provided for unloading and processing, windrows, chip and grind material storage and finished product storage and loading. How much is located where depends on product and operational constraints, such as weather, equipment availability, and staffing. The operation design allows for up to 30,000 CY of un-ground green material. Additionally, when chip and grind material windrows are in use they are expected to store up to 30,000 CY of material for a maximum of 90 days. The combined capacities of the processing and windrow areas are approximately 97,000 CY. There could be 74,000 CY of finished material on hand at any one time, although windrows will be expected to be slim in months when demand is high and larger when demand is low.
- <u>D.</u> <u>Nuisance Control and Health and Safety Methods</u>. The Greenery follows site-specific Best Management Practices (BMPs). General nuisance, health and safety measures include:
 - Reducing visible particulate emissions in accordance with San Diego County Air Pollution Control District regulations.
 - Maintaining the windrows in an aerobic condition by using appropriate particle size and providing regular mixing.
 - Maintaining windrow moisture content between 40 and 60 percent.
 - Maintaining adequate windrow temperatures (above 131° F) throughout the pathogen reduction process (as mandated by Title 14 CCR §17868.3).
 - Controlling dust by means of regular application of water to roads, alleyways, and pile surfaces.

- Properly maintaining operational equipment per manufacturer's specifications.
- Using equipment with enclosed, air-conditioned cabs for most operations.
- Monitoring wind patterns prior to and during screening and turning operations, and adjusting as necessary.
- Reducing and eliminating leachate from windrows and stockpiles. Water introduced to the windrows does not exceed the adsorptive capacity of the compost feedstock material, causing no increase to the amount of surface runoff. The site is graded to promote lateral run-off. Because compost operations occur on the surface of the landfill, stormwater runoff is regulated and controlled via BMPs required for the landfill surface. Adequate drainage control has been provided around the area to divert run-on surface water flows. Drainage patterns may be slightly modified within the Greenery to insure proper drainage away from windrows and to prevent ponding. Drainage berms along the top deck of the landfill direct surface water to a series of surface structures including cellular confinements and gabions, down drains, pipes and drainage channels. These devices convey stormwater to detention basins and energy dissipaters, when appropriate, before ultimately discharging into San Clemente Canyon. Prior to the rainy season, structural and non-structural BMPs are maintained and re-installed to maintain compliance with Miramar Landfill's NPDES and Waste Discharge Requirements, Regional Water Quality Control Board. These devices are monitored and maintained as necessary, especially during periods of wet weather to minimize runoff impacts.

In addition, the Greenery follows the following protocols for fire, litter, odor, dust, noise, vector and pathogen control.

- 1. Fire. Fire prevention for equipment and vehicles is provided by frequent and daily removal of debris and dust from under carriages and engine compartments, checking for and repairing oil and fuel leaks. Portable fire extinguishers are provided for the equipment. The operation has two 3,800-gallon water trucks and access to a large capacity water tanker and a high volume reclaimed water line to fill trucks and equipment. All personnel are trained in safety procedures and training records are kept. File lanes are maintained between sets of windrows and around stockpiles. Heavy equipment is available to control fire. All landfill gas wells and piping at the Greenery are clearly delineated and protected as necessary. When a chip and grind material stockpile is in use, temperatures are taken on a weekly basis, unless the LEA inspector waives this due to small quantities in the pile. The temperature data are kept by the Greenery Supervisor in the Operations Office.
- 2. **Litter Control**. Because the Greenery primarily accepts clean, source-separated feedstocks, litter generation at the site is minimal. Litter control measures built-in to Greenery design include:
 - Minimization of acceptance of litter-rich feedstocks.
 - Daily visual load checks.
 - Covering food scrap loads with clean green materials.
 - Regular patrolling of aisles, processing areas, access roads and the site perimeter to remove accumulated litter.

- Regular patrolling of those areas where litter fencing has been installed. (Litter fencing and/or redundant fencing is installed in areas where it is deemed necessary)
- Adjacent areas are patrolled regularly to check for blowing litter. Any accumulated litter is removed.
- 3. **Odor Control**. The Greenery has developed and maintains a site-specific Odor Impact Minimization Plan (OIMP) for the Greenery. Per Title 14 CCR §17863.4(d), the OIMP is reviewed annually to determine if any revisions are necessary. The OIMP is maintained at the Operations Office. The OIMP contains site-specific management practices and standard operating procedures for minimizing odors from the Greenery. A copy of the OIMP is contained in Appendix C. Personnel working at the Greenery are trained in odor management procedures on an annual basis and the operator shall provide names of personnel and date of training to the LEA upon request.
- 4. **Dust Control**. Potential dust emissions from the Greenery are from the handling, grinding, screening, windrow turning of the green material and road traffic. The Greenery access roads are watered as needed to minimize dust. The windrows are watered to maintain ideal moisture conditions and the grinders are each equipped with a spray bar to minimize dust. Water trucks and a pressure controlled drip irrigation system may help ensure that windrow moisture content in maintained throughout the composting process. In the event that it become necessary to handle dry material, the material will be moisture conditioned prior to grinding or screening. The primary source of dust at the Greenery are the transporting and unloading of processed material, processing of wood scraps and dry wall, material screening and material loading. The primary means to control dust during these operations are two 3,800-gallon water trucks, and may include misting turbines, and other control devices. Also, Greenery personnel practice good housekeeping measures such as regularly clearing roads and aisles of spilled material.
- 5. **Noise Control.** Noise is controlled through the proper use and maintenance of mufflers on equipment, both stationary and mobile. The primary sources of noise onsite are the grinders, which are located at the processing areas (see Site Plan, Appendix B). The nearest residences to a grinder are approximately 1.2 miles to the south and 1.4 miles to the west. Also, both housing communities are located on the opposite side of a major freeway, SR-52 and I-805 respectively.
- 6. Vector Control. Vectors, such as rodents and insects, are controlled through the various procedures designed to deter the introduction of vector populations from outside sources, or create hospitable breeding conditions. Food scrap loads from program participants are required to be hauled to the Greenery within a set time frame before the load can begin to produce noxious odors or vector problems associated with decaying food. Food scraps, grease and other materials requiring alternative handling are directed to the dedicated receiving area. The loads require spotter/operator signature for receipt, and are mixed with bulking agent by the end of the operating day they are received. In addition, when necessary, the food windrows are blanketed with clean green material. All surrounding areas are kept clean to avoid creating a food source for rodents and scavengers. If a vector problem develops onsite, additional control measures may include baited traps, biocontrol's such as release of fly

- predators, live traps, adjustments in moisture content and/or turning frequency, or other measures.
- 7. **Pathogenic Organism/Bioaerosols/Hazards.** Samples from the point of sale will be tested once for every 5,000 CY of product sold or given away to ensure that the compost does not exceed the maximum acceptable pathogen concentrations. *Salmonella* is a genus of rod-shaped bacteria that causes typhoid fever and foodborne illness. These bacteria may be present in compost. Another group of potential disease producing bacteria are fecal coliform bacteria. Fecal coliform bacteria include the genera that originate in feces, and some that do not. *Escherichia coli* is often used as an indicator species for this group of bacteria, though its presence does not necessarily indicate the presence of feces.

In the event that *Salmonella* and/or fecal coliform concentrations exceed limits set forth in Title 14, Division 7, Article 7, § 17868.3.b.1, the material will be further processed and re-tested. If it passes the subsequent test it will be release for use. If it fails a second time it may be used as approved or disposed at the West Miramar Landfill.

In the event that heavy metals exceed the limits set forth in Title 14, Division 7, Article 7, § 17868.2.a, the material will be re-tested. If it passes the subsequent test it will be released for consumption. If it fails the subsequent test, the test results will be reviewed by personnel for a determination as to appropriate disposal, reprocessing or use. If success is likely, it may be processed a second time, or handled in an alternate manner, as approved by the LEA. Options for consideration by the LEA may include use on slopes, burial in the West Miramar Landfill, or if it may be used in a manner approved by the LEA and in compliance with Title 27 CCR, § 20690(b)(8)(B), as Alternative Daily Cover at Miramar Landfill or another landfill.

In compliance with Title 14 CCR §17867(a)(4) equipment operators have been instructed to ensure that equipment used to handle finished product is free of any residue of raw product. In addition, separate areas of the Greenery are dedicated for the incoming product and the storage of the finished product. The finished product is stored up-gradient from the raw product.

- E. Emergency Procedures in the Event of Equipment Breakdown. In the event equipment break downs or increases in feedstock, ESD has access to equipment from the City's General Services and Water Utilities Departments and has special contractual agreements with local vendors. Supplemental equipment can be obtained by short-term lease from these City departments and local private sources. If major equipment breaks down or equipment loss occurs, to the point that operations cannot keep up with incoming volume, green waste can be diverted to other facilities for processing of in the worst-case scenario disposed at West Miramar Landfill.
- <u>F. Site Storage</u>. In its planned configuration, the Greenery has the capacity to store approximately 301,000 CY of material. This includes:

- 30,000 potential CY of un-ground material.
- Maximum 90 days and 30,000 potential CY of processed chipped and ground material.
- Windrows and processing providing 97,000 potential CY of material.
- 70,000 potential CY of curing/aging material.
- 74,000 CY of finished materials. The average length of finished material storage time is estimated to be two months and the maximum storage time is estimated to be six months. Actual storage times may vary and are dependent upon the maturity of the finished product and on market demand.
- G. Equipment. Greenery processing equipment is shown in Table 1. Equipment used includes grinders, screens, excavator, front-end loaders, air separators, windrow turners, water trucks, blowers, generators and colorizer. Equipment, such as a wheeled scraper, motor grater, and articulated dump truck can be borrowed from other operations located at the site if needed. Grinders have varying processing capacities, from 270 to 560 CY per hour or more. Trommel screens also have varying processing capacities, usually ranging from 22 to 40 tons per hour. The scraper can move 45 CY, while a track excavator with a grapple attachment can handle 4.5 CY. The front-end loaders have capacities ranging from 1 CY to 7 CY. The water trucks have a capacity of 3,800 gallons. The windrow turner can process windrows 20 feet wide by 8 feet high. The air separator can be used in tandem with either trommel screen and removes film contaminants and rocks form the oversized remains of the screening process. The operation also has access to a large capacity water tanker and high volume reclaimed water line, as well as a potable water hydrant for back up water supply if reclaimed water in temporarily off line. Types of equipment may be replaced and/or updated for efficiency, to meet regulatory requirements, or as technology advances. Additional and other equipment may be used on a short-term basis as appropriate, for example, to comply with permit requirements or as demonstration from vendors.

Table 1: Compost Facility Processing Equipment

Equipment Type	Capacity/Throughput*	Number
Small Grinder	270 CY/Hour	1
Large Grinder	560 CY/Hour	1
Start Screen	270 CY/Hour	1
Trommel Screen	225 CY/Hour	1
Air Separator	200 CY/Hour	1
Windrow Turner	3,000 CY/Hour	1
Front-end Loader	1-7 CY	4 - 6
Water Truck	3,800 Gallons	2

Tracked Excavator	4.5 CY	1
Articulated Dump Truck	25 CY	1
Colorizer	250 CY/Hour	1

^{*}According to manufacturer specifications

- <u>H.</u> Annual Capacity. The Greenery is designed to receive 690 tons per day with an annual throughput maximum of 1,000,000 CY.
- <u>I.</u> Peak Loading. To handle unusual peak loadings near the maximum planned daily throughput, ESD increases the use of processing equipment. In the past, rare incidents of peak volumes and traffic levels of nearly 650 trips have never caused congestion or unsafe windrows. If additional personnel or equipment are necessary to manage a peak loading situation, additional resources can be mobilized from other City operations or nearby vendors and contractors the same day. The processing capacity of the existing equipment is more than adequate to process incoming materials.
- J. Storage and Disposal of Residues. Any residues or non-recoverable materials encountered during daily operations are placed in roll-off bins, and transported to West Miramar Landfill for disposal at least every seven days, and recorded in the contaminant disposal log.
- K. Water Supplies. Water for process needs, dust control and fire protection is provided by two 3,800-gallon water trucks, and a high volume reclaimed water line. Reclaimed water comes from the City of San Diego's North City Water Reclamation Plant. A large capacity water tanker is available from the West Miramar Landfill operation in the event of emergencies. A back up potable water line is available adjacent to the Greenery footprint.
- <u>L.</u> <u>Persons Responsible for Oversight of Facility Operations</u>. The Deputy Director at the time of writing/updating this is Renee Robertson (858-573-1275), and this position is ultimately responsible for the composting operation. As an alternate, the Landfill Biologist, Burton Ewert may be reached at 858-518-8067.
- M. Site Restoration. Once the Greenery ceases operations, in compliance with Title 14 CCR §17870, 30 days prior to beginning site restoration, ESD will notify the LEA in writing of the intent to perform site restoration. The grounds and drainage areas will be cleaned of all residues and properly disposed. All machinery will be cleaned and removed or stored securely. Any remaining structures will be cleaned of compost materials, dust, particulate, or other residues related to the composting and site restoration operations. Because the operation is within the footprint of the West Miramar Landfill, the ESD will also be responsible for landfill closure and post-closure maintenance requirements.

III. DOCUMENT PREPARES,

The following people wrote the document, with review from James Hay, Environmental Services Department, Landfill Operations Program Manager.

Burton Ewert, Environmental Services Department, Biologist

APPENDIX A

FIGURES AND DRAWINGS

- 1. General Site Design Map
 - 2. Location Map

APPENDIX B ODOR IMPACT MINIMIZATION PLAN

APPENDIX C PERMITS AND APPROVALS

- 1. CEQA, City of San Diego Development Services Department
- 2. Conformance with the City of San Diego Non-Disposal Facility Element
- 3. Compostable Materials Handling Facility Permit, San Diego Development Services Department (LEA), Cal Recycle
- 4. Conditional Use Permit (10632-0), San Diego Planning Department (June 1981)
- 5. Waste Discharge Requirements, Regional Water Quality Control Board, for the Miramar Landfill (WDR 93-86)
- 6. National Pollutant Discharge Elimination System Permit, for Miramar Landfill (9-37S005556)

Appendix E-3 Existing Load and Tonnage Data

October 26, 2017

Bill Prinz, Program Manager Solid Waste Local Enforcement Agency (LEA) 1010 Second Avenue, Suite 600, MS 606L San Diego, CA 92101-4998

Dear Mr. Prinz:

Reference: Quarterly Report-July through September, 2017

The City of San Diego's Environmental Services Department is submitting this report in compliance with the Self-Monitoring requirements in Compostable Materials Handling Facility Permit number 37-AB-0003 for the Miramar Greenery. The reporting period is for July through September, 2017.

Attachment 1 reports the daily tonnage received by material type and number of vehicles using the site. Attachment 2 summarizes the Log of Special Occurrences, Load Check results and also includes quantities of "contaminants" hauled to the landfill. Attachment 3 summarizes the volume of product leaving the facility per month. Attachment 4 are the sampling results for pathogenic organisms and metals as required by 14 CCR, Chapter 3.1, and Article 7.

If you have any questions or comments regarding this report, please feel free to contact me at (858) 573-1275 or Burton Ewert at (858) 627-3320.

Sincerely,

Mark zu Hone Miramar Landfill Program Manager

MZ/bce

Enclosures: Attachments 1-4

cc: Mario X. Sierra, Director, Environmental Services Department Alex Garcia, Interim Deputy Director, Environmental Services Department Burton Ewert, Biologist III, Environmental Services Department

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 07/01/2017 To 09/30/2017

This document was last refreshed on October 1, 2017

	FOOD \	NASTE	FOOD \		GREE	NERY	WOOD	WASTE	TOTALS		
DATE									TOTAL # OF	TOTAL	
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	
07/01/2017	4	12.2	2	7.65	296	229.09	16	20.96	318	269.9	
07/02/2017					238	173.08	8	7.95	246	181.03	
07/03/2017	6	23.61	3	27.97	220	411.77	16	12.33	245	475.68	
07/04/2017	4	10.94			57	45.72	4	5.18	65	61.84	
07/05/2017	2	15.2	4	23.6	162	276.40	4	3.79	172	318.99	
07/06/2017	8	19.21	1	1.04	191	275.71	7	5.31	207	301.266	
07/07/2017	5	19.3	3	17.71	171	199.44	7	8.14	186	244.5855	
07/08/2017	2	3.95	1	3.67	298	356.83	12	11.11	313	375.56	
07/09/2017					209	158.03	3	3.39	212	161.42	
07/10/2017	4	17.7	3	22.53	187	342.31	6	9.75	200	392.29	
07/11/2017	4	15.41	1	3.93	193	331.15	6	5.1	204	355.59	
07/12/2017	2	4.53	3	17.08	207	252.84	16	18.82	228	293.27	
07/13/2017	6	19.49	2	3.77	179	223.98	10	13.84	197	261.08	
07/14/2017	5	19.74	3	16.77	203	271.66	16	21.4	227	329.57	
07/15/2017	3	9.9	1	1.82	262	211.93	5	2.62	271	226.27	
07/16/2017	1	2.91			207	146.86	9	6.95	217	156.72	
07/17/2017	3	21.53	1	10.1	216	420.09	16	23.97	236	475.69	
07/18/2017	6	19.05	1	4.56	189	320.38	9	11.74	205	355.73	
07/19/2017	2	7.43	4	22.78	197	244.70	9	12.17	212	287.075	
07/20/2017	10	37.12	2	3.99	211	249.54	12	14.37	235	305.02	
07/21/2017	4	16.35	2	13.43	230	309.52	10	15.59	246	354.89	
07/22/2017	2	5.06	2	8.74	291	224.75	11	10.86	306	249.41	
07/23/2017					224	163.93	2	1.38	226	165.31	
07/24/2017	4	14.16	3	23.79	182	343.60	8	12.14	197	393.69	
07/25/2017	7	24.84	1	3.76	229	381.42	16	19.82	253	429.84	
07/26/2017	1	3.17	3	16.41	225	321.72	13	14.9	242	356.2	
07/27/2017	8	33.38	2	4	184	217.51	20	25.44	214	280.33	
07/28/2017	3	11.02	2	12.95	191	274.85	13	14.1	209	312.92	
07/29/2017	3	11.36	2	7.86	279	215.88	9	8.64	293	243.74	
07/30/2017					206	155.50	10	6.88	216	162.38	
07/31/2017	7	35.39	3	23.28	226	460.05	16	19.39	252	538.11	
Totals	116	433.95	55	303.19	6560	8210.23	319	368.03	7050	9315.40	

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 07/01/2017 To 09/30/2017

This document was last refreshed on October 1, 2017

					iast refreshe	d on October				
	FOOD V	WASTE	MUL1	NASTE TIPLE	GREE	NERY	WOOD	WASTE	TOTA	LS
DATE									TOTAL # OF	TOTAL
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS
08/01/2017	2	4.43	1	3.54	192	324.04	17	22.02	212	354.03
08/02/2017	3	14.62	3	16.98	212	284.37	15	16.55	233	332.52
08/03/2017	8	29.6	2	3.89	202	241.81	12	8.93	224	284.23
08/04/2017	5	21.4	1	8.1	220	323.23	10	11.6	236	364.33
08/05/2017			2	9.4	286	227.44	11	9.51	299	246.35
08/06/2017					212	151.16	5	3.17	217	154.33
08/07/2017	3	17.18	3	22.47	196	371.08	10	12.36	212	423.09
08/08/2017	7	24.57	1	5.96	215	366.33	13	12.8	236	409.66
08/09/2017	3	6.14	2	10.93	196	261.39	13	22.9	214	301.36
08/10/2017	7	27.88	2	4.21	194	266.77	8	8.97	211	307.83
08/11/2017	3	11.22	4	21.1	239	293.92	14	19.59	260	345.83
08/12/2017	3	14.85	1	3.75	302	237.68	9	13.07	315	269.35
08/13/2017					198	141.53	4	2.76	202	144.29
08/14/2017	4	16.18	4	24.13	201	428.65	11	13.28	220	482.24
08/15/2017	5	13.37	1	5.96	188	317.73	10	9.21	204	346.27
08/16/2017	3	16.48	3	15.43	204	298.65	17	24.41	227	354.97
08/17/2017	8	28.87	2	4.05	182	235.90	4	10.44	196	279.26
08/18/2017	5	16.76	2	11.27	204	311.54	11	13.39	222	352.96
08/19/2017	1	3.54	2	9.52	270	204.03	5	3.92	278	221.01
08/20/2017	1	6.35			205	152.23	6	4.78	212	163.36
08/21/2017	5	22.15	3	22.16	205	390.32	8	9.95	221	444.58
08/22/2017	7	31.51	1	4.15	200	324.68	12	10.81	220	371.15
08/23/2017	2	4.53	3	15.68	208	290.75	10	8.3	223	319.26
08/24/2017	8	21.32	2	3.8	167	226.18	13	13.42	190	264.72
08/25/2017	3	14.68	3	16.24	191	270.22	11	13.25	208	314.39
08/26/2017	3	11.37	1	1.43	272	229.63	10	9.33	286	251.76
08/27/2017					180	136.27	6	4.14	186	140.41
08/28/2017	7	26.73	4	20.85	210	443.40	3	2.07	224	493.05
08/29/2017	4	11.27	1	6.54	210	330.36	5	7.35	220	355.52
08/30/2017	2	10.25	3	17.08	161	239.00	17	30.28	183	296.61
08/31/2017	8	21.74	2	3.96	178	226.82	6	5.66	194	258.18
Total	120	448.99	59	292.58	6500	8547.11	306	358.22	6985	9646.90

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 07/01/2017 To 09/30/2017

This document was last refreshed on October 1, 2017

	FOOD \	WASTE	FOOD \	WASTE		NERY	WOOD	WASTE	TOTA	LS
DATE									TOTAL # OF	TOTAL
00/040/0047	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS		LOADS	TONS
09/010/2017	5	19.06	1	4.11	199	323.67	10	14.49	215	361.33
09/02/2017	2	6.02	2	8.25	227	173.83	10	7.99	241	196.09
09/03/2017	1	5.27			150	114.94	7	4.27	158	124.48
09/04/2017	4	15.99	2	11.91	96	67.81	8	9.22	110	104.93
09/05/2017	6	17.07	1	12.26	173	343.45	7	6.13	187	378.91
09/06/2017	2	9.92	3	14.71	166	317.07	8	11.86	179	353.555
09/07/2017	8	23.46	1	1.71	181	284.82	9	9.91	199	319.9
09/08/2017	4	16.65	3	17.33	175	199.89	12	14.59	194	248.46
09/09/2017	3	9.64	1	2.65	257	293.99	4	3.57	265	309.85
09/10/2017	1	0.69			207	158.49	2	0.91	210	160.09
09/11/2017	5	16.92	4	21.24	182	380.27	7	10.57	198	429
09/12/2017	4	12.42	1	4.63	178	315.87	7	6.46	190	339.38
09/13/2017	4	25.4	3	15.73	182	281.08	8	11.45	197	333.66
09/14/2017	7	16.75	2	3.87	196	231.37	18	24.06	223	276.05
09/15/2017	3	11.56	3	16.81	205	304.99	9	9.66	220	343.02
09/16/2017	3	11.87	1	2.49	291	217.10	5	6.94	300	238.4
09/17/2017	1	4.81			199	155.26	5	4.09	205	164.16
09/18/2017	4	16.64	3	19.84	218	414.33	7	7.13	232	457.94
09/19/2017	4	17.34	1	4.2	221	343.53	7	4.67	233	369.74
09/20/2017	3	11.14	3	15.56	199	263.81	11	17.13	216	307.64
09/21/2017	8	27.26	2	4.73	191	237.91	9	10.82	210	280.72
09/22/2017	6	21.64	3	15.97	174	254.84	13	12.74	196	305.19
09/24/2017					227	171.44	6	4.04	233	175.48
09/25/2017	5	27.62	3	17.01	184	415.91	7	7.39	199	467.93
09/26/2017	5	18.04	1	4.12	188	297.62	8	13.24	202	333.02
09/27/2017	2	8.87	3	14.16	195	262.56	7	5.02	207	290.61
09/28/2017	9	19.03	2	4.49	188	245.01	13	11.79	212	280.32
09/29/2017	4	13.8	3	14.95	172	262.38	10	18.04	189	309.17
09/30/2017	4	15.52	1	2.42	249	195.28	18	16.41	272	229.63
Total	117	420.40	53	255.15	5670	7528.52	252	284.59	6092	8488.66
Sum:	353	1303.34	167	850.92	18730	24285.85	877	1010.8	20127	27450.95

DATE	OCCURRENCES	COMMENTS		Tons of Contaminants Removed
		AP	RIL 2017	
7/1/2017	NSO			6
7/2/2017	NSO			0
7/3/2017	NSO			0
7/4/2017		Closed (Holiday)		0
7/5/2017				9
7/6/2017	NSO			0
7/7/2017	NSO			0
7/8/2017	NSO			0
7/9/2017	NSO			0
7/10/2017	NSO			9
7/11/2017	NSO			0
7/12/2017	NSO			6
7/13/2017	NSO			0
7/14/2017				0
7/15/2017				0
7/16/2017				9
7/17/2017				0
7/18/2017				8
7/19/2017				0
7/20/2017				0
7/21/2017				5
7/22/2017				0
7/23/2017				0
7/24/2017				9
7/25/2017				0
7/26/2017				8
7/27/2017				0
7/28/2017				0
7/29/2017				9
7/30/2017				0
7/31/2017	NSO			0
		Monthly 1	Total	78

DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
		MAY 2017	
8/1/2017	NSO		0
8/2/2017	NSO		6
8/3/2017			0
8/4/2017			0
8/5/2017			6
8/6/2017			0
8/7/2017			8
8/8/2017			0
8/9/2017			0
8/10/2017			6
8/11/2017			0
8/12/2017			0
8/13/2017			0
8/14/2017			9
8/15/2017		Marijuana Load (Sheriff's Dept.)	0
8/16/2017			0
8/17/2017			0
8/18/2017			9
8/19/2017			0
8/20/2017			0
8/21/2017		Marijuana Load (Sheriff's Dept.)	0
8/22/2017			8
8/23/2017			0
8/24/2017			0
8/25/2017			0
8/26/2017			6
8/27/2017			0
8/28/2017			18
8/29/2017			0
8/30/2017			0
8/31/2017	NSO		0
		Monthly Total	76

DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
		JUNE 2017	
9/1/2017	NSO		12
9/2/2017	NSO		0
9/3/2017	NSO		0
9/4/2017	NSO		6
9/5/2017	NSO		0
9/6/2017	NSO		0
9/7/2017	NSO		9
9/8/2017	NSO		0
9/9/2017	NSO		0
9/10/2017	NSO		0
9/11/2017	NSO		9
9/12/2017	NSO		0
9/13/2017	NSO		0
9/14/2017	NSO		6
9/15/2017	NSO		0
9/16/2017	NSO		9
9/17/2017	NSO		0
9/18/2017	NSO		0
9/19/2017	NSO		0
9/20/2017	NSO		15
9/21/2017	NSO	Marijuana Load (Sheriff's Dept.)	0
9/22/2017	NSO		0
9/23/2017	NSO		6
9/24/2017	NSO		0
9/25/2017	NSO		0
9/26/2017	NSO		9
9/27/2017	NSO		0
9/28/2017	NSO		0
9/29/2017	NSO		6
9/30/2017	NSO		0
		Monthly Total	87

		Incom	ing Tons	5							Outgo	ing Yards			
Month/ Year	Clean Greens	Wood	X-Mas	Food	Drywall/ Animal	Total	Greens Trash	ADC	Miramar Slope Mulch	Other Internal Mulch	Other Internal Chips	Other Internal Compost		Sales (cubic	yards)
			Trees	Waste	Bedding in FY11		tons	yards	yards	yards	yards	yards	ALL Mulch	Compost & Overs	All Woodchips
								Y 06							
FY06 Totals	95,691	3,154	1,004		0	99,849	888		12,646	3,620	0	0	3,455	29,245	11,060
EVOT T	05 770	0.070	705			400.005		Y07	4.440	04.040	_		0.700	00.550	40.050
FY07 Totals	95,772	3,679	785		0	100,235	924	Y08	1,140	64,040	0	0	3,762	22,550	13,356
FY08 Totals	98,430	4,042	897	1,462	766	105,596	948	7,140	41,784	8,350	0	11,230	11,851	19,955	25,201
F100 Totals	30,430	4,042	091	1,402	700	103,390		Y09	41,704	0,330	U	11,230	11,001	13,333	23,201
FY09 Totals	94,078	4,361	922	2,162	73	101,596	912	2,545	38,178	11,330	0	0	28,993	20,102	22,817
	, , , , , , , , , , , , , , , , , , , ,	,,,,,,		, -		7		Y10		, , , , , ,			,		, -
FY10 Totals	97,041	3,344	983	1,896	0	103,264	800	4,445	25,710	5,000	0	0	29,911	25,328	19,828
							F	Y11							
FY11 Totals	91,799	3,121	1,037	2,409	12	98,379	792	32,644	13,754	0	0	0	24,060	19,175	16,878
								Y12							
FY12 Totals	88,507	3,419	1,035	3,689	60	96,710	676	52,068 Y13	18,304	3,950	0	0	27,015	26,731	17,168
FY13 Totals	90,555	3,339	1,085	5,396	127	100,502	881	65,370	16,520	0	0	0	45,676	29,546	17,764
F113 Totals	90,555	3,339	1,000	5,396	121	100,502		Y14	10,320	U	U	U	45,070	29,546	17,704
FY14 Totals	90,198	3,753	1,040	7,481	310	102,782	653	54,840	8,360	0	0	2,106	52,894	30,302	13,369
	00,100	0,700	1,040	1,101	0.0	102,702		Y15	0,000			2,100	02,004	00,002	10,000
FY15 Totals	87,292	4,368	857	9,388	166	102,071	911	31,940	6,932	0	0	0	56,516	30,667	15,648
								Y16							
FY16 Totals	92,590	4,645	1,096	7,605	0	105,935	1,020	15,356	5,021	175	0	0	78,828	24,901	16,103
								Totals							
FY17 Totals	89,727	4,554	986	7,786	0	103,052	858	33,124	3,164	2,044	0	0	68,671	22,823	14,011
1 1 47	0040	000	0	707		0045		Totals		_	1	ı	7.050	4.005	4.505
Jul-17 Aug-17	8210 8547	368 358	0		0		78 76	1,116 7,100		-			7,050 3,602	1,885 2,606	1,565 1,670
Sep-17	7529		0			8490	87	4,144		 			5,943	474	1,070
Oct-17	1329	200	0	070	0	0490	01	7,177					0,040	717	1,411
Nov-17															
Dec-17															
Jan-18															
Feb-18															
Mar-18 Apr-18		1					.			 		ļ			
Apr-18 May-18							-			-					
Jun-18															
FY18 Totals	24,286	1,011	0	2,154	0	27,452	241	12,360	0	0	0	0	16,595	4,965	21,560

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Environmental Services Department

Disposal and Environmental Protection Division

January 17, 2018

Mr. Bill Prinz Program Manager Solid Waste Local Enforcement Agency (LEA) 1010 Second Avenue, Suite 600, MS 606L San Diego, CA 92101-4998

Dear Mr. Prinz:

Reference: Quarterly Report-October through December, 2017

The City of San Diego's Environmental Services Department is submitting this report in compliance with the Self-Monitoring requirements in Compostable Materials Handling Facility Permit number 37-AB-0003 for the Miramar Greenery. The reporting period is for October through December, 2017.

Attachment 1 reports the daily tonnage received by material type and number of vehicles using the site. Attachment 2 summarizes the Log of Special Occurrences, Load Check results and also includes quantities of "contaminants" hauled to the landfill. Attachment 3 summarizes the volume of product leaving the facility per month. Attachment 4 is the sampling results for pathogenic organisms and metals as required by 14 CCR, Chapter 3.1, and Article 7.

If you have any questions or comments regarding this report, please feel free to contact me at (858) 492-6151 or Burton Ewert at (858) 627-3320.

Sincerely,

Mark zu Mone

Miramar Landfill Program Manager

MZ/bce

Enclosures: Attachments 1-4

cc: Mario X. Sierra, Director, Environmental Services Department

Alex Garcia, Interim Deputy Director, Environmental Services Department

Burton Ewert, Biologist III, Environmental Services Department

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 10/01/2017 To 12/31/2017

This document was last refreshed on January 01, 2018

dell	CHRIS'		FOOD V	NASTE	FOOD W		GREE	NERY	WOOD	WASTE	TOTALS		
DATE	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS	
10/01/2017							206	157.3	7	5.7	213	163	
10/02/2017	Ī		4	18.48	2	11.79	234	390.18	8	8.77	248	429.22	
10/03/2017			4	16.74	2	11.54	201	361.95	12	9.19	219	399.42	
10/04/2017			1	2.51	2	12.65	178	243.18	9	13.49	190	271.83	
10/05/2017			7	26.32	2	3.94	193	260.85	6	6.81	208	297.92	
10/06/2017			4	14.65	3	17.32	184	267.18	8	7.96	199	307.11	
10/07/2017			3	7.18	1	5.5	227	203.18	6	6.01	237	221.87	
10/08/2017							170	128.82	5	4.22	175	133.04	
10/09/2017			4	18.81	2	10.42	206	381.32	16	16.04	228	426.59	
10/10/2017			5	21.72	1	7.01	213	320.82	15	19.01	234	368.56	
10/11/2017			4	16.22	4	19.34	183	234.88	10	13.02	201	283.46	
10/12/2017			5	14.31	2	4.14	198	244.37	15	21.35	220	284.17	
10/13/2017			3	9.36	2	11.63	205	308.88	16	24.08	226	353.95	
10/14/2017			3	9.59	1	3.2	285	241.7	15	20.8	304	275.29	
10/15/2017							214	155.23	4	3.33	218	158.56	
10/16/2017			3	13.59	4	21.85	197	391.89	9	9.8	213	437.13	
10/17/2017			7	24.62	1	3.68	209	322.11	10	11.87	227	362.28	
10/18/2017			4	23.13	3	16.6	166	215.38	8	9.34	181	264.45	
10/19/2017			5	9.21	2	4.5	214	242.25	14	17.36	235	273.32	
10/20/2017			4	10.86	3	14.95	193	251	17	19.79	217	296.6	
10/21/2017			2	9.59	1	2.2	305	259.32	7	5.26	315	276.37	
10/22/2017			1	0.69			207	150.52	5	4.83	213	156.04	
10/23/2017			5	24.41	3	20.15	187	389.38	11	10.49	206	444.43	
10/24/2017			5	22.5	1	5.06	156	276.36	12	17.91	174	321.83	
10/25/2017			3	5.71	2	12.41	147	210.98	11	14.37	163	243.47	
10/26/2017			6	17.27	2	3.08	166	216.7	10	16.31	184	253.36	
10/27/2017			5	19.98	4	19.12	170	242.4	5	6.83	184	288.33	
10/28/2017			4	14.67	1	1.27	236	207.33	13	10.09	254	233.36	
10/29/2017							204	145.92	1	0.69	205	146.61	
10/30/2017			3	16.7	3	20.44	199	348.585	13	14.85	218	400.575	
10/31/2017	1		5	16.5	1	5	216	362.95	16	21.29	238	405.74	
TOTAL	0	0	109	405.32	55	268.79	6269	8132.92	314	370.86	6747	9177.885	

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 10/01/2017 To 12/31/2017

This document was last refreshed on January 01, 2018

	CHRIS TRE		FOOD V	VASTE	FOOD V		GREE	NERY	WOOD	NASTE	TOTALS	
DATE	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
11/01/2017			3	17.38	3	14.76	178	249.36	7	11.33	191	292.83
11/02/2017			8	24.69	2	3.89	189	234.42	15	24.84	214	287.84
11/03/2017	1		4	7.31	3	15.39	207	322.15	4	6.37	218	351.22
11/04/2017			4	9.13	1	1.51	263	207.75	12	13.59	280	231.98
11/05/2017			1	0.69			215	160.49	9	9.18	225	170.36
11/06/2017			3	14.69	3	17.43	209	422.95	11	19.06	226	474.13
11/07/2017			8	33.78	1	6.2	197	314.27	14	16.45	220	370.7
11/08/2017			1	3.69	3	15.63	177	249.21	11	8.84	192	277.37
11/09/2017			5	16.37	2	4.04	186	238.46	10	7.14	203	266.01
11/10/2017			4	9.52	2	11.69	204	301.1	8	9.09	218	331.4
11/11/2017			4	16.23	2	5.15	287	225.24	2	3.76	295	250.38
11/12/2017							198	150.56	7	4.92	205	155.48
11/13/2017			5	19.63	3	19.56	191	356.31	5	8.96	204	404.46
11/14/2017			4	11.15	1	4.65	189	324.93	12	15.49	206	356.22
11/15/2017			2	8.78	3	13.61	173	229.05	9	7.68	187	259.12
11/16/2017			7	18.05	1	2.47	172	239.64	12	18.67	192	278.83
11/17/2017			5	19.87	3	14.64	199	279.74	7	10.8	214	325.05
11/18/2017			4	12.35			259	201.67	10	10.72	273	224.74
11/19/2017			1	0.59			200	144.51	5	3.78	206	148.88
11/20/2017			5	13.37	3	17.54	215	425.74	7	7.81	230	464.46
11/21/2017			6	18.35	1	4.22	187	302.56	9	11.09	203	336.22
11/22/2017			7	26.82	3	17.63	167	204.78	4	3.05	181	252.28
11/24/2017			6	24.4	2	8.78	151	171.81	12	9.59	171	214.58
11/25/2017			3	8.85	3	13.53	222	255.68	7	9.2	235	287.26
11/26/2017							179	137.24	4	2.19	183	139.43
11/27/2017			3	10.8	3	15.7	154	307.3	8	7.42	168	341.22
11/28/2017			5	19.25	1	3.38	195	313.19	10	14.93	211	350.75
11/29/2017			1	4.06	3	11.55	186	266.11	9	11.74	199	293.46
11/30/2017			6	18.72	2	2.78	165	236.03	16	24.4	189	281.93
TOTAL	0	0	115	388.52	54	245.73	5714	7472.25	256	312.09	6139	8418.59

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 10/01/2017 To 12/31/2017

This document was last refreshed on January 01, 2018

	CHRIS TRE	A STATE OF THE PARTY OF THE PAR	FOOD	WASTE	FOOD V		GREE	NERY	WOOD	WASTE	тот	ALS
DATE	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
12/01/2017			4		2	12.38	183	264.15	5	8	194	296.38
12/02/2017			3		1	2.47	228	176.48	8	11.71	240	200.8
12/03/2017							198	157.94	3	1.87	201	159.81
12/04/2017			5	14.66	3	18.05	172	380.12	11	10.79	191	423.62
12/05/2017			4	15.16	1	2.52	173	295.96	8	8	186	321.64
12/06/2017			2	6.24	3	11.89	178	250.97	9	12.47	192	281.57
12/07/2017			5	7.11	2	2.75	147	207.07	7	4.99	161	221.92
12/08/2017	1	2	5	20.48	3	13.16	182	241.22	8	25.16	199	302.02
12/09/2017			3	11.72	1	2.26	257	218.34	9	8	270	240.32
12/10/2017	-1	1.45					182	144.78	2	1.38	185	147.61
12/11/2017			4	17.21	3	15.48	183	365.71	5	8.1	195	406.5
12/12/2017	1	1.08	5	14.46	1	2.64	178	290.83	9	7.65	194	316.66
12/13/2017			3	21.14	2	6.85	166	252.76	5	7.13	176	287.88
12/14/2017			5	19.84	2	3.62	147	185.65	8	9.85	162	218.96
12/15/2017	2	2.47	3	11.76	2	9.24	179	284.94	13	21	199	329.41
12/16/2017	2	2.67	3	10.95	2	8.11	219	171.71	14	16.28	240	209.72
12/17/2017							181	142.53	10	8.81	191	151.34
12/18/2017	2	2.89	4	14.67	2	9.81	185	384.02	10	10.1	203	421.49
12/19/2017	1	1.18	4	11.1	1	1.8	192	309.24	14	11.95	212	335.27
12/20/2017	1	1.99	3	12.89	2	7.03	169	213.6	7	5.74	182	241.25
12/21/2017	3	0.68	6	26.45	2	3.06	154	202.74	9	16.47	174	249.4
12/22/2017	3	1.76	5	6.1	2	7.53	162	242.35	10	28.53	182	286.27
12/23/2017			2	4.13	1	0.83	159	139.201	7	13.86	169	158.0205
12/24/2017							54	40.24	2	1.38	56	41.62
12/26/2017	20	21.53	8	30.13	3	15.91	123	247.79	6	3.9	160	319.26
12/27/2017	8	6.55	2	6.51	2	4.09	152	252.49	8	13.51	172	283.15
12/28/2017	18	17.28	6	15.01	4	11.42	162	238.12	10	27.63	200	309.46
12/29/2017	14	9.73	4	8.95	1	2.41	142	159.13	13	16.44	174	196.66
12/30/2017	41	43.51	4	10.66	3	7.71	199	238.135	3	3.47	250	303.485
12/31/2017	25	28.09					85	67.24	4	2.91	114	98.24
TOTAL	143	144.86	102	339.32	51	183.02	5091	6765.46	237	327.08	5624	7759.7355
Sum:	143	144.86	326	1133.16	160	697.54	17074	22370.6	807	1010.03	18510	25356.211

DATE	OCCURRENCES	COMMENTS		Tons of Contaminants F	Removed
		ОСТО	DBER 2017		
10/1/2017	' NSO	· · · · · · · · · · · · · · · · · · ·	delen in traditione de produceratification de la figural par extraversor en programment de la company de centr	(Consideration Special Consideration Special Consideration Special Consideration Special Consideration Special	9
10/2/2017	NSO				0
10/3/2017	NSO				0
10/4/2017	NSO				12
10/5/2017	NSO				0
10/6/2017	NSO				0
10/7/2017	NSO				6
10/8/2017	NSO NSO				0
10/9/2017					0
10/10/2017					0
10/11/2017					0
10/12/2017					15
10/13/2017					0
10/14/2017					6
10/15/2017					0
10/16/2017					0
10/17/2017					0
10/18/2017					12
10/19/2017					0
10/20/2017					0
10/21/2017					0
10/22/2017					0
10/23/2017					9
10/24/2017					0
10/25/2017					0
10/26/2017					0
10/27/2017					6
10/28/2017					0
10/29/2017					0
10/30/2017					3
10/31/2017	NSO		s was first and the confidence of the contraction o		
		Monthly 7	[otal		78

SPECIAL		
OCCURRENCES	COMMENTS	T

DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
		NOVEMBER 2	017
11/1/2017	7 NSO		0
11/2/2017	7 NSO		12
11/3/2017	7 NSO		0
11/4/2017	7 NSO		0
11/5/2017	NSO NSO		6
11/6/2017	NSO NSO		0
11/7/2017	NSO NSO		0
11/8/2017	NSO NSO		15
11/9/2017	NSO NSO		0
11/10/2017	NSO		0
11/11/2017	NSO NSO		0
11/12/2017	NSO NSO		9
11/13/2017	NSO		0
11/14/2017	NSO NSO		0
11/15/2017	NSO		0
11/16/2017	NSO		18
11/17/2017	NSO		0
11/18/2017	NSO		0
11/19/2017	NSO		0
11/20/2017	NSO		6
11/21/2017	NSO		0
11/22/2017	NSO		0
11/23/2017	NSO		9
11/24/2017	NSO		0
11/25/2017	NSO		0
11/26/2017	NSO		6
11/27/2017			0
11/28/2017	NSO		0
11/29/2017	NSO		9
11/30/2017	NSO		0
		Monthly Total	90

SPECIAL	
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DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
		DECEMBER 2017	
12/1/2017	NSO		0
12/2/2017	NSO		0
12/3/2017	NSO		12
12/4/2017	NSO		0
12/5/2017	NSO		0
12/6/2017	NSO	•	6
12/7/2017	NSO		0
12/8/2017	NSO		9
12/9/2017	NSO		0
12/10/2017	NSO		0
12/11/2017	NSO		0
12/12/2017	NSO		0
12/13/2017	NSO		15
12/14/2017	NSO		0
12/15/2017	NSO		0
12/16/2017	NSO		0
12/17/2017	NSO		9
12/18/2017	NSO		0
12/19/2017	NSO		3
12/20/2017	NSO		0
12/21/2017	NSO		18
12/22/2017	NSO		0
12/23/2017	NSO		0
12/24/2017	NSO		0
12/25/2017	NSO.	Fire in Mulch ext. Armstrong	9
12/26/2017	NSO		0
12/27/2017	NSO	Fire in Mulch ext. Armstrong	0
12/28/2017	NSO		0
12/29/2017	NSO		6
12/30/2017			0
12/31/2017	NSO	The state of the sta	
		Monthly Total	87

Historical Incoming and Outgoing Greens Report

		Incoming to	ing lons								Outgo	Outgoing Yards			
Month/ Year	Clean Greens	Wood	X-Mas	Food	Drywall/ Animal	Total	Greens Trash	ADC	Miramar Slope Mulch	Other Internal Mulch	Other Internal Chips	Other Internal Compost		Sales (cubic yards)	yards)
			Lees	waste	in FY11		tons	yards	yards	yards	yards	yards	ALL Mulch	Compost & Overs	All Woodchips
							FY 06	FY 06 Totals							
FY06 Totals	95,691	3,154	1,004		0	99,849	888		12,646	3,620	0	0	3.455	29.245	11.060
							FY07	FY07 Totals							
FY07 Totals	95,772	3,679	785		0	100,235	924		1,140	64,040	0	0	3,762	22,550	13,356
		-		N.			FY08	FY08 Totals							
FY08 Totals	98,430	4,042	897	1,462	992	105,596	948	7,140	41,784	8,350	0	11,230	11,851	19,955	25,201
							FY09	FY09 Totals							
FY09 Totals	94,078	4,361	922	2,162	73	101,596	912	2,545	38,178	11,330	0	0	28,993	20,102	22,817
							FY10	FY10 Totals							
FY10 Totals	97,041	3,344	983	1,896	0	103,264	800	4,445	25,710	5,000	0	0	29,911	25,328	19,828
							FY11	FY11 Totals							
FY11 Totals	91,799	3,121	1,037	2,409	12	98,379	792	32,644	13,754	0	0	0	24,060	19,175	16,878
							FY12	FY12 Totals							
FY12 Totals	88,507	3,419	1,035	3,689	09	96,710	929	52,068	18,304	3,950	0	0	27,015	26,731	17,168
							FY13	FY13 Totals							
FY13 Totals	90,555	3,339	1,085	5,396	127	100,502	881	65,370	16,520	0	0	0	45,676	29,546	17,764
							FY14	FY14 Totals							
FY14 Totals	90,198	3,753	1,040	7,481	310	102,782	653	54,840	8,360	0	0	2,106	52,894	30,302	13,369
							FY15	FY15 Totals							
FY15 Totals	87,292	4,368	857	9,388	166	102,071	911	31,940	6,932	0	0	0	56,516	30,667	15,648
							FY16	FY16 Totals							
FY16 Totals	92,590	4,645	1,096	7,605	0	105,935	1,020	15,356	5,021	175	0	0	78,828	24,901	16,103
							FY17	FY17 Totals							
FY17 Totals	89,727	4,554	986	7,786	0	103,052	858	33,124	3,164	2,044	0	0	68,671	22,823	14,011
							FY18	FY18 Totals							
Jul-17	8210	368	0	737	0	9315	78	1,116	0				7,050	1,885	1,565
Aug-17	8547		0			9647	76	7,100	0				3,602	2,606	1,670
Sep-17	7529	285	0		0	8490	87	4,144	0				5,943	1397	1,211
Oct-17	8133		0			9178	78	0	9264				3683	1737	837
Nov-17	7472		0	635		8419	06	0	132				3807	1574	573
Dec-17	6765	327	145	522	0	7759	87	0	0			1340	3730	1164	472
Jan-18															
Feb-18															
Mar-18												4			
Apr-18															
May-18															
Jun-18														4	
FY18 Totals	46.656	2,021	145	3.985	0	52.808	496	12,360	9.396	0	0	1.340	27 815	10 363	28 178

1/16/2018

ANALYTICAL CHEMISTS and BACTERIOLOGISTS reproved by State of California TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 7110377-1/1-6671 Group: Nov17B #47 Reporting Date: November 28, 2017

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received:

10 Nov. 17

Sample Identification: Red 1-3 Compost Sample ID #:

7110377 - 1/1

Nutrients	Dry wt.	As Rovd.	units
Total Nitrogen:	1.8	1.4	%
Ammonia (NH ₄ -N):	710	560	mg/kg
Nitrate (NO ₃ -N):	13	11	mg/kg
Org. Nitrogen (OrgN):	1.7	1.3	%
Phosphorus (as P2O5):	0.55	0.43	%
Phosphorus (P):	2400	1900	mg/kg
Potassium (as K ₂ O):	1.1	0.89	%
Potassium (K):	9400	7400	mg/kg
Calcium (Ca):	1.5	1.2	%
Magnesium (Mg):	0.31	0.25	%
Sulfate (SO ₄ -S):	750	590	mg/kg
Boron (Total B):	34	27	mg/kg
Moisture:	0	20.9	%
Sodium (Na):	0.31	0.25	%
Chloride (CI):	0.51	0.41	%
pH Value:	NA	4.57	unit
Bulk Density:	27	34	lb/cu ft
Carbonates (CaCO ₃):	< 0.1	<0.1	lb/ton
Conductivity (EC5):	7.7	NA	mmhos/cm
Organic Matter:	54.1	42.8	%
Organic Carbon:	32.0	25.0	%
Ash:	45.9	36.3	%
C/N Ratio	18	18	ratio
AgIndex	4	4	ratio

Stability Inc			Biologically
CO2 Evolut		Respirometery	Available C
mg CO ₂ -C/g		8.3	9.4
mg CO ₂ -C/g	TS/day	4.5	5.1
Stability I	Rating	unstable	unstable
	r - r - A - 5 - 5	6.0 6 0.0 / 25	
		nber Bioassay	
	rmiculite(v:v)	1:2	
Emergence		87	
Seedling Vig		102	
Description	on of Plants	fungus	
Pathogens	Results	Units	Rating
Fecal Colifor	rm < 7.5	MPN/g	pass
Salmonella	< 3	MPN/4g	pass
Date Tested:	10 Nov. 17		
Inerts	% by weigh	nt.	
Plastic	< 0.5		
Glass	< 0.5		
Metal	< 0.5		
Sharps	ND		

. 19			
Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4200		mg/kg
Arsenic (As):	3.3	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	13	1200	mg/kg
Cobalt (Co)	2.4	1.2	mg/kg
Copper (Cu):	27	1500	mg/kg
Iron (Fe):	7700		mg/kg
Lead (Pb):	11	300	mg/kg
Manganese (Mn):	160	(4)	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	2.0	75	mg/kg
Nickel (Ni):	5.2	420	mg/kg
Selenium (Se):	< 1.0	36	mg/kg
Zinc (Zn):	88	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	1.2	
2.0 to 4.0	6.7	
< 2.0	92.1	

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No .: Date Received 10 Nov. 17 Red 1-3 Compost 7110377 - 1/1 - 6671 Sample i.d. Sample I.d. No. 1/1 7110377 Page Group: Nov17B No. 47 INTERPRETATION: Page 1 of 3 Is Your Compost Stable? Biodegradation Rate of Your Pile Respiration Rate 8.3 mg CO2-C/ Unstable >|< High For Mulch g OM/day < Stable >|<Moderately Unstable>|< Biologically Available Carbon (BAC) Optimum Degradation Rate 9.4 mg CO2-C/ +++++++ ++++++++++++++++++++++ >|< High For Mulch < Stable > | < Moderately Unstable> | < Unstable g OM/day Is Your Compost Mature? AmmoniaN/NitrateN ratio 55 Ratio VeryMature>|< Mature >|< |mmature Ammonia N ppm 710 mg/kg >|< Immature dry wt. VeryMature>|< Mature Nitrate N ppm 13 mg/kg +++++++++ Immature >|< Mature dry wt. pH value 4.57 units >|< Mature >|< Immature Immature **Cucumber Emergence** 86.7 percent >|< Mature Is Your Compost Safe Regarding Health? **Fecal Coliform** < 1000 MPN/g dry wt. ++++++ >|< High Fecal Coliform Salmonella Less than 3 /4g dry wt. ++++++ >|< High Salmonella Count(> 3 per 4 grams) <Safe (none detected) Metals US EPA 503 Pass dry wt. >|< One or more Metals Fail <All Metals Pass Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O) ++++++++++++++++++++++++++ 3.5 Percent >|< High Nutrient Content >|< Average dry wt. ((N+P2O5+K2O) / (Na + CI)) AgIndex (Nutrients / Sodium and Chloride Salts) +++++++++++++++++++ 4 Ratio >|< Nutrient Provider Na & Cl > | Nutrient and Sodium and Chloride Provider Plant Available Nitrogen (PAN) Estimated release for first season 9 lbs/ton Average Nitrogen Provider >|<High Nitrogen Provider Low Nitrogen Provider>|< wet wt. C/N Ratio 18 Ratio < Nitrogen Release > | < N-Neutral > | < N-Demand> | < High Nitrogen Demand Soluble Available Nutrients & Salts (EC5 w/w dw) 7.7 mmhos/cm SloRelease>|< Average Nutrient Release Rate >|<High Available Nutrients dry wt. Lime Content (CaCO3) 0 Lbs/ton < Low >|< Average >|< High Lime Content (as CaCO3) dry wt. What are the physical properties of your compost? Percent Ash +++++++++++++++++++++++++++++++++++++ 45.9 Percent dry wt. < High Organic Matter >|< Average >|< High Ash Content Sieve Size % > 6.3 MM (0.25")

0.0 Percent

dry wt.

All Uses

> | Size May Restrict Uses for Potting mix and Golf Courses

Account No.:

7110377 - 1/1 - 6671

Group:

Nov17B No. 47

Date Received

10 Nov. 17

Sample i.d. Sample I.d. No. Red 1-3 Compost 1/1

7110377

Page 2 of 3

INTERPRETATION:

Is Your Compost Stable?

Respiration Rate

Moderate-selected use 8.3

mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

Moderate-selected use

mg CO2-C/g OM/day

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate form, lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN: NitrateN ratio immature

55

Ammonia N ppm				
710	immature			
Nitrate N ppn	n			
13	immature			
pH value	ras -			
4.57	immature			

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

86.7 Percent Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health?

Fecal Coliform

/ g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial < 1000 compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.:

Group:

Date Received

10 Nov. 17

1/1

Red 1-3 Compost

7110377 - 1/1 - 6671

Nov17B No. 47

Sample i.d. Sample I.d. No.

7110377

INTERPRETATION:

AgIndex (Nutrients/Na+CI)

Page 3 of 3

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

- Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

 C/N Ratio
- Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 7.7 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

45.9 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Particle Size Distribution

Each size fraction is measured by weight, volume and bulk density. These results are particularly relevent with decisions to screen or not, and if screening, which size screen to use. The bulk density indicates if the fraction screened is made of light weight organic material or heavy mineral material. Removing large mineral material can greatly improve compost quality by increasing nutrient and organic concentrations.

Appendix:	Estimated available nutrients for use whe	n calculating application rates
Plant Available Nitrogen (PAN) calculations: PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))	Estimated available matients for ass will	lbs/ton (As Rcvd.)
X value = If BAC < 2 then X = 0.1	Plant Available Nitrogen (PAN)	9.2
If BAC =2.1 to 5 then X = 0.2	Ammonia (NH4-N)	1.12
If BAC =5.1 to 10 then X = 0.3	Nitrate (NO3-N)	0.02
If BAC > 10 then X = 0.4	Available Phosphorus (P2O5*0.64)	5.5
Note: If C/N ratio > 15 additional N should be applied.	Available Potassium (K2O)	17.8



Date Sampled/Received: 09 Nov. 17 / 10 Nov. 17

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego

CA 92123

Product Identification Compost

Red 1-3 Middles

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 950	76 <i>tel:</i> 831.724.5422	2 fax: 831.724.3188	
Compost Parameters	Reported as (units of measure)	Test Results	Test Results	
Plant Nutrients:	%, weight basis	Not reported	Not reported	
Moisture Content	ent %, wet weight basis			
Organic Matter Content	%, dry weight basis	89.4		
pH	units	4.58		
Soluble Salts (electrical conductivity EC 3)	dS/m (mmhos/cm)	3.2	3.2	
Particle Size or Sieve Size	maxium aggregate size, inches	1.00		
Stability Indicator (respirometry	v)		Stability Rating:	
CO ₂ Evolution	mg CO ₂ -C/g OM/day	3.8	Stable	
	mg CO ₂ -C/g TS/day	3.4	Statione	
Maturity Indicator (bioassay)				
Percent Emergence	average % of control	100.0		
Relative Seedling Vigor	average % of control	117.9		
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform	
		Pass	Salmonella	
Trace Metals	PASS/FAIL: per US EPA Class A	2	As,Cd,Cr,Cu,Pb,Hg	
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn	

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Nov17B	Laboratory Number: 7110375-1/1	
Analyst: Assaf Sadeh	Clary Sobel	www.compostlab.com	



Date Sampled/Received: 09 Nov. 17 / 10 Nov. 17

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego

CA 92123

Product Identification Compost Red 1-3 Middles

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	76 <i>tel:</i> 831.724.5422 <i>l</i>	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	Total N	0.77	1.0
Phosphorus	P ₂ O ₅	0.22	0.30
Potassium	K ₂ O	0.70	0.93
Calcium	Ca	0.70	0.93
Magnesium	Mg	0.16	0.21
Moisture Content	%, wet weight basis	25.1	
Organic Matter Content	%, dry weight basis	89.4	
pH	units	4.58	
Soluble Salts (electrical conductivity EC ₃)	dS/m (mmhos/cm)	3.2	
Particle Size or Sieve Size	% under 9.5 mm, dw basis	21.2	
Stability Indicator (respirometry	")		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day mg CO ₂ -C/g TS/day	3.8 3.4	Stable
Maturity Indicator (bioassay)	Ing cop org rorally	5.17	
Percent Emergence	average % of control	100.0	
Relative Seedling Vigor	average % of control	117.9	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A		As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Nov17B	Laboratory Number: 7110375-1/1	
Analyst: Assaf Sadeh	Clay Salel	www.compostlab.com	



US COMPOSTING

Seal of Testing Assurance

Caltrans

Attachment 4

City of San Diego Environmental Services

Burton Ewert 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego CA 92123

Product Identification:

Red 1-3 Middles

Date Sampled/Received:

09 Nov. 17 / 10 Nov. 17

COMPOST TECHNICAL DATA SHEET for Caltrans

LABORATORY: Soil Control Lab, 42 Hangar Way, Watsonville, CA 95076 tel (831) 724-5422 fax (831) 724-3188 www.compostlab.com

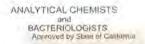
Compost Parameters	Test Results	Reported as (units of measure)	TMECC Test Method	
pH	4.58	Unitless	04.11-A 1:5 Sluny pH	
Soluble Salts (electrical conductivity)	3.2	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method Mass Basis	
Moisture content	25.1	%, wet weight basis	03.09-A - Total Solids and Moisture	
Organic Matter Content	89.4	%, dry weight basis	05.07-A Loss-on-Ignition Organic Matter Method (LOI)	
Maturity Indicator (bioassay)	, . ,			
Percent Emergence	100.0	average % of control	05.05-A Germination and vigor	
Relative Seedling Vigor	117.9	average % of control		
Stability Indicator	3.8	mg CO2-C/g OM/day	05.08-B Carbon Dioxide Evoultion Rate	
Particle Size	21.2	%, dry weight passing through 9.5 mm	02.02-B Sample Sieving for Aggregate Size Classification	
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.01-B Fecal coliforms	
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.02 Samonella	
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Total content	
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Sharps content	
Tanan Matala Cantant	D	PASS/FAIL: Per US EPA Class A	04.06-Heavy Metals standard,	
Heavy Metals Content	Pass	40 CFR 503.13, tables 1 and 3.	and Hazardous Elements	

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org.

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality. or suitability for any particular use.

Laboratory Group: Laboratory Number: 7110375-1/1 Analyst: Assaf Sadeh www.compostlab.com



TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

SOIL CONTROL LAB

Account #: 7110375-1/1-6671 Group: Nov17B #45

Reporting Date: November 28, 2017

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 10 Nov. 17
Sample Identification: Red 1-3 Middles
Sample ID #: 7110375 - 1/1

Metals	Drv wt.	EPA Limit	units	Size Distribution	on		
AgIndex	4	4	ratio	Sharps	ND		
C/N Ratio	41	41	ratio	Metal	< 0.5		
Ash:	10.6	7.9	%	Glass	< 0.5		
Organic Carbon:	42.0	32.0	%	Plastic	< 0.5		
Organic Matter:	89.4	67.0	%	Inerts	% by weigh	nt -	
Conductivity (EC5):	3.2	NA	mmhos/cm				
Carbonates (CaCO ₃):	2.8	2.1	lb/ton	7 - A			
Bulk Density:	12	16	lb/cu ft	Date Tested: 10 N	lov. 17		
pH Value:	NA	4.58	unit	Salmonella	< 3	MPN/4g	pass
Chloride (CI):	0.25	0.19	%	Fecal Coliform	4.8	MPN/g	pass
Sodium (Na):	0.30	0.22	%	Pathogens	Results	Units	Rating
Moisture:	0	25.1	%	Yes to the second			
Boron (Total B):	31	23	mg/kg	10.00			
Sulfate (SO ₄ -S):	160	120	mg/kg	Description	of Plants	healthy	
Magnesium (Mg):	0.21	0.16	%	Seedling Vigor	(%)	118	
Calcium (Ca):	0.93	0.70	%	Emergence (%))	100	
Potassium (K):	7700	5800	mg/kg	Compost:Vermi	iculite(v:v)	1:2	
Potassium (as K ₂ O):	0.93	0.70	%	Maturity Indica	ator: Cucun	nber Bioassay	
Phosphorus (P):	1300	970	mg/kg	100000000000000000000000000000000000000			
Phosphorus (as P ₂ O ₅):	0.29	0.22	%				
Org. Nitrogen (OrgN):	0.96	0.72	%	Stability Rat	ing	stable	stable
Nitrate (NO ₃ -N):	6.0	4.5	mg/kg	mg CO ₂ -C/g TS	S/day	3.4	3.4
Ammonia (NH ₄ -N):	390	290	mg/kg	mg CO ₂ -C/g OM/day		3.8	3.8
Total Nitrogen:	1.0	0.77	%	CO2 Evolution		Respirometery	Available C
Nutrients	Dry wt.	As Rcvd.	units	Stability Indica	ator:		Biologically

Metals	Dry wt.	EPA Limit	units	Size Distribution		
Aluminum (AI):	1200	-	mg/kg	MM	% by weight	
Arsenic (As):	1.6	41	mg/kg	> 50	0.0	
Cadmium (Cd):	< 1.0	39	mg/kg	25 to 50	0.0	
Chromium (Cr):	4.0	1200	mg/kg	16 to 25	53.8	
Cobalt (Co)	1.1	-	mg/kg	9.5 to 16	24.9	
Copper (Cu):	11	1500	mg/kg	6.3 to 9.5	12.7	
Iron (Fe):	1700	4	mg/kg	4.0 to 6.3	3.0	
Lead (Pb):	3.7	300	mg/kg	2.0 to 4.0	1.1	
Manganese (Mn):	88	-	mg/kg	< 2.0	4.4	
Mercury (Hg):	< 1.0	17	mg/kg			
Molybdenum (Mo):	1.0	75	mg/kg			

mg/kg

mg/kg

Zinc (Zn): 44 2800 mg/kg *Sample was received and handled in accordance with TMECC procedures.

420

36

2.6

< 1.0

Analyst: Assaf Sadeh

Nickel (Ni):

Selenium (Se):

Account No.: 7110375 - 1/1 - 6671 Group: Nov17B No. 45

Date Received 10 Nov. 17 Sample i.d. Red 1-3 Middles Sample I.d. No. 1/1 7110375

INTERPRETATION:

Page 1 of 3

Is Your Compost Stable?

Respiration Rate	
	Biodegradation Rate of Your Pile
3.8 mg CO2-C/	++++++++++
g OM/day	< Stable > <moderately unstable=""> < Unstable > < High For Mulch</moderately>
Biologically Available Carb	on (BAC) Optimum Degradation Rate
3.8 mg CO2-C/ g OM/day	
g Olvirday	Stable > Swidderately distable> Offstable > Striight of World
s Your Compost Mature?	2
AmmoniaN/NitrateN ratio	
65 Ratio	+++++++++++++++++++++++++++++++++++++++
	VeryMature> < Mature > < Immature
Ammonia N ppm	
390 mg/kg	+++++++++++++++++++++++++++++++++++++++
dry wt.	VeryMature> < Mature > < Immature
Nitrate N ppm 6.0 mg/kg	++++
dry wt.	< Immature > < Mature
pH value	Time to the second seco
4.58 units	+++++++++++++++++++++++++++++++++++++++
	< Immature > < Mature > < Immature
Cucumber Emergence	
100.0 percent	++++++++++++++++++++++++++++++++++++++
	< Immature > < Mature
s Your Compost Safe Re	garding Health?
Fecal Coliform	
< 1000 MPN/g dry wt.	+++++
1000 IVII 14/9 dry Wt.	< Safe > < High Fecal Coliform
Salmonella	
Less than 3 /4g dry wt.	+++++
	<safe (none="" detected)=""> < High Salmonella Count(> 3 per 4 grams)</safe>
Metals US EPA 503	
Pass dry wt.	+++++++ <all metals="" pass=""> < One or more Metals Fail</all>
	All Metals Fass
Does Your Compost Prov	ride Nutrients or Organic Matter?
	ride Nutrients or Organic Matter?
Nutrients (N+P2O5+K2O)	ride Nutrients or Organic Matter?
Nutrients (N+P2O5+K2O) 2.2 Percent	+++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt.	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt.	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt.	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt. C/N Ratio	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt.	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt. C/N Ratio 41 Ratio	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt. C/N Ratio 41 Ratio Soluble Available Nutrients	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt. C/N Ratio 41 Ratio Soluble Available Nutrients 3.2 mmhos/cm	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt. C/N Ratio 41 Ratio Soluble Available Nutrients 3.2 mmhos/cm dry wt.	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt. C/N Ratio 41 Ratio Soluble Available Nutrients 3.2 mmhos/cm dry wt.	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt. C/N Ratio 41 Ratio Soluble Available Nutrients 3.2 mmhos/cm dry wt. Lime Content (CaCO3)	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt. C/N Ratio 41 Ratio Soluble Available Nutrients 3.2 mmhos/cm dry wt. Lime Content (CaCO3) 2.8 Lbs/ton dry wt.	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt. C/N Ratio 41 Ratio Soluble Available Nutrients 3.2 mmhos/cm dry wt. Lime Content (CaCO3) 2.8 Lbs/ton dry wt. What are the physical pro	++++++++++++++++++++++++++++++++++++++
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Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (Pr 4 lbs/ton wet wt. C/N Ratio 41 Ratio Soluble Available Nutrients 3.2 mmhos/cm dry wt. Lime Content (CaCO3) 2.8 Lbs/ton dry wt. What are the physical pro Percent Ash 10.6 Percent	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (P/ 4 lbs/ton wet wt. C/N Ratio 41 Ratio Soluble Available Nutrients 3.2 mmhos/cm dry wt. Lime Content (CaCO3) 2.8 Lbs/ton dry wt. What are the physical pro Percent Ash 10.6 Percent dry wt.	++++++++++++++++++++++++++++++++++++++
Nutrients (N+P2O5+K2O) 2.2 Percent dry wt. AgIndex (Nutrients / Sodium 4 Ratio Plant Available Nitrogen (Pr 4 lbs/ton wet wt. C/N Ratio 41 Ratio Soluble Available Nutrients 3.2 mmhos/cm dry wt. Lime Content (CaCO3) 2.8 Lbs/ton dry wt. What are the physical pro Percent Ash 10.6 Percent	++++++++++++++++++++++++++++++++++++++

Account No.:

Group:

7110375 - 1/1 - 6671

Date Received

10 Nov. 17 Red 1-3 Middles

Nov17B No. 45

Sample i.d. Sample I.d. No.

1/1

7110375

INTERPRETATION:

Is Your Compost Stable?

Page 2 of 3

Respiration Rate

Low: Good for all uses 3.8

mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

Low: Good for all uses

mg CO2-C/g OM/day

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate form, lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active. Is

Your Compost Mature?

AmmoniaN:NitrateN ratio 65 immature

Ammonia N	opm
390	mature
Nitrate N ppn	n
6.0	immature
pH value	
4.58	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0 Percent Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? **Fecal Coliform**

Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial < 1000 / g dry wt. compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process. Salmonella Bacteria

3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the Less than 3 case of biosolids industry to determine adequate pathogen reduction. Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to agland and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.:

Date Received Sample i.d.

10 Nov. 17 Red 1-3 Middles

1/1

Group:

Nov17B No. 45

Sample I.d. No.

7110375

INTERPRETATION:

7110375 - 1/1 - 6671

AgIndex (Nutrients/Na+CI)

Page 3 of 3

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied. C/N Ratio

- Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates 41 immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable. Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)
- This value refers to all soluble ions including nutrients, sodium, chloride and some Average salts soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

2.8 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

10.6 Low ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter 91.5 mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Particle Size Distribution

Each size fraction is measured by weight, volume and bulk density. These results are particularly relevent with decisions to screen or not, and if screening, which size screen to use. The bulk density indicates if the fraction screened is made of light weight organic material or heavy mineral material. Removing large mineral material can greatly improve compost quality by increasing nutrient and organic concentrations

organio ochoona adono.			
Appendix:			
		Estimated available nutrients for use wh	en calculating application rates
Plant Available Nitrogen	(PAN) calculations:		lbs/ton (As Rcvd.)
PAN = (X * (organic N)) -	- ((NH4-N) + (NO3-N))		
X value = If BAC <	2 then X = 0.1	Plant Available Nitrogen (PAN)	3.6
If BAC =2	2.1 to 5 then X = 0.2	Ammonia (NH4-N)	0.58
if BAC =5	5.1 to 10 then X = 0.3	Nitrate (NO3-N)	0.01
If BAC >	10 then X = 0.4	Available Phosphorus (P2O5*0.64)	2.8
Note: If C/N ratio > 15 ad	ditional N should be applied.	Available Potassium (K2O)	14.0

ANALYTICAL CHEMISTS and BACTERIOLOGISTS Approved by State of California TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

SOIL CONTROL LAB

Account #: 7110374-1/1-6671 Group: Nov17B #44

Reporting Date: November 28, 2017

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123

Attn: Burton Ewert

Date Received: 10 Nov. 17 Sample Identification: Red 6-9 Compost Sample ID #: 7110374 - 1/1

Nutrients	Dry wt.	As Rcvd.	units	Stability Indica			Biologically
Total Nitrogen:	1.6	1.2	%	CO2 Evolution		Respirometery	Available C
Ammonia (NH ₄ -N):	610	480	mg/kg	mg CO2-C/g ON	Λ/day	13	14
Nitrate (NO ₃ -N):	15	12	mg/kg	mg CO2-C/g TS	/day	6.8	7.4
Org. Nitrogen (OrgN):	1.5	1.2	%	Stability Rati	ing	unstable	unstable
Phosphorus (as P ₂ O ₅):	0.54	0.43	%	100000000000000000000000000000000000000			
Phosphorus (P):	2400	1900	mg/kg	by a Direct of			
Potassium (as K ₂ O):	1.1	0.85	%	Maturity Indica	tor: Cucum	ber Bioassay	
Potassium (K):	9000	7100	mg/kg	Compost:Vermi		1:2	
Calcium (Ca):	1.4	1.1	%	Emergence (%)		100	
Magnesium (Mg):	0.31	0.24	%	Seedling Vigor		107	
Sulfate (SO ₄ -S):	680	540	mg/kg	Description of		healthy	
Boron (Total B):	33	26	mg/kg				
Moisture:	0	21.2	%				
Sodium (Na):	0.28	0.22	%	Pathogens	Results	Units	Rating
Chloride (CI):	0.42	0.33	%	Fecal Coliform	< 7.5	MPN/g	pass
pH Value:	NA	4.30	unit	Salmonella	< 3	MPN/4g	pass
Bulk Density:	25	32	lb/cu ft	Date Tested: 10 N	ov. 17		
Carbonates (CaCO ₃):	< 0.1	< 0.1	lb/ton				
Conductivity (EC5):	7.7	NA	mmhos/cm				
Organic Matter:	53.6	42.3	%	Inerts	% by weigh		
Organic Carbon:	29.0	23.0	%	Plastic	< 0.5		
Ash:	46.4	36.5	%	Glass	< 0.5		
C/N Ratio	18	18	ratio	Metal	< 0.5		
AgIndex	5	5	ratio	Sharps	ND		
Metals	Dry wt.	EPA Limit	units	Size Distribution	on		
Aluminum (AI):	4500	1	mg/kg	MM	% by weight		
Arsenic (As):	3.0	41	mg/kg	> 50	0.0		
Cadmium (Cd):	< 1.0	39	mg/kg	25 to 50	0.0		
Chromium (Cr)	8 1	1200	malka	16 to 25	0.0		

Metals	Dry wt.	EPA Limit	units	Size Distrib	ution	
Aluminum (AI):	4500	2	mg/kg	MM	% by weight	
Arsenic (As):	3.0	41	mg/kg	> 50	0.0	
Cadmium (Cd):	< 1.0	39	mg/kg	25 to 50	0.0	
Chromium (Cr):	8.1	1200	mg/kg	16 to 25	0.0	
Cobalt (Co)	2.4	(4)	mg/kg	9.5 to 16	0.0	
Copper (Cu):	22	1500	mg/kg	6.3 to 9.5	0.0	
Iron (Fe):	6600	100	mg/kg	4.0 to 6.3	1.5	
Lead (Pb):	9.2	300	mg/kg	2.0 to 4.0	7.3	
Manganese (Mn):	160	162	mg/kg	< 2.0	91.2	1
Mercury (Hg):	< 1.0	17	mg/kg			
Molybdenum (Mo):	1.4	75	mg/kg			
Nickel (Ni):	4.1	420	mg/kg			Analyst: Assaf Sadeh

mg/kg

mg/kg *Sample was received and handled in accordance with TMECC procedures.

< 1.0

80

36

2800

Selenium (Se):

Date Received 10 Nov. 17 Account No.: 7110374 - 1/1 - 6671 Sample i.d. Red 6-9 Compost Sample I.d. No. 7110374 Group: Nov17B No. 44 1/1 **INTERPRETATION:** Page 1 of 3 Is Your Compost Stable? Respiration Rate Biodegradation Rate of Your Pile 13 mg CO2-C/ +++++++ ┿╊╋╇╋╋╋╋╇╋╋╋╋╇╇╇╇╇╇ >|< High For Mulch g OM/day < Stable Unstable >|<Moderately Unstable>|< Biologically Available Carbon (BAC) Optimum Degradation Rate 14 mg CO2-C/ ++++++++++++++++ < Stable Unstable > | High For Mulch g OM/day ><Moderately Unstable>< Is Your Compost Mature? AmmoniaN/NitrateN ratio 41 Ratio Ammonia N ppm 610 mg/kg VeryMature>|< Mature >< Immature dry wt. Nitrate N ppm ++++++++ 15 mg/kg Immature >|< Mature dry wt. pH value ++++++++++++++++++++++++++++++ 4.30 units > < Mature >< Immature Immature **Cucumber Emergence** 100.0 percent < Immature Is Your Compost Safe Regarding Health? **Fecal Coliform** < 1000 MPN/g dry wt. < Safe >|< High Fecal Coliform Salmonella Less than 3 /4g dry wt. <Safe (none detected) >|< High Salmonella Count(> 3 per 4 grams) Metals **US EPA 503** Pass dry wt. <All Metals Pass >|< One or more Metals Fail Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O) 3.2 Percent dry wt. <Low >|< Average >|< High Nutrient Content AgIndex (Nutrients / Sodium and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl)) 5 Ratio +++++++++++++++++++++++++ Na & Cl > < Nutrient and Sodium and Chloride Provider >< Nutrient Provider Plant Available Nitrogen (PAN) Estimated release for first season ********** 10 lbs/ton Low Nitrogen Provider>|< Average Nitrogen Provider >|<High Nitrogen Provider wet wt. C/N Ratio 18 Ratio < Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand Soluble Available Nutrients & Salts (EC5 w/w dw) 7.7 mmhos/cm SioRelease>|< Average Nutrient Release Rate > < High Available Nutrients dry wt. Lime Content (CaCO3) 0 Lbs/ton < Low >|< > |< High Lime Content (as CaCO3) dry wt. Average What are the physical properties of your compost? Percent Ash +++++++++++++++++++ 46.4 Percent High Organic Matter >< Average > | High Ash Content dry wt. Sieve Size % > 6.3 MM (0.25")

0.0 Percent

dry wt.

All Uses

>|< Size May Restrict Uses for Potting mix and Golf Courses

Account No.:

Group:

7110374 - 1/1 - 6671

Nov17B No. 44

Date Received

10 Nov. 17

Red 6-9 Compost Sample i.d.

Sample I.d. No.

1/1

7110374

INTERPRETATION:

Is Your Compost Stable?

Respiration Rate

High-for mulch

mg CO2-C/g OM/day

Page 2 of 3

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

High-for mulch

mg CO2-C/g OM/day

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate form, lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active. Is

Your Compost Mature?

AmmoniaN:NitrateN ratio immature

41

Ammonia N	ppm
610	immature
Nitrate N ppr	n
15	immature
pH value	
4.30	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content _ can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0 Percent Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health?

Fecal Coliform

Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial < 1000 / g dry wt. compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process. Salmonella Bacteria

Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the Less than 3 3 / 4g dry wt. case of biosolids industry to determine adequate pathogen reduction. Metals

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Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.:

Date Received

Sample I.d. No.

10 Nov. 17

1/1

7110374 - 1/1 - 6671

Sample i.d.

Red 6-9 Compost

Group:

Nov17B No. 44

7110374

INTERPRETATION: AgIndex (Nutrients/Na+CI)

Page 3 of 3

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

- Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

 C/N Ratio
- 18 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 7.7 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

46.4 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Particle Size Distribution

Each size fraction is measured by weight, volume and bulk density. These results are particularly relevent with decisions to screen or not, and if screening, which size screen to use. The bulk density indicates if the fraction screened is made of light weight organic material or heavy mineral material. Removing large mineral material can greatly improve compost quality by increasing nutrient and organic concentrations.

Appendix:		
	Estimated available nutrients for use when	n calculating application rates
Plant Available Nitrogen (PAN) calculations:		lbs/ton (As Rcvd.)
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		
X value = If BAC < 2 then X = 0.1	Plant Available Nitrogen (PAN)	10.2
If BAC =2.1 to 5 then X = 0.2	Ammonia (NH4-N)	0.96
If BAC =5.1 to 10 then X = 0.3	Nitrate (NO3-N)	0.02
if BAC > 10 then $X = 0.4$	Available Phosphorus (P2O5*0.64)	5.5
Note: If C/N ratio > 15 additional N should be applied.	Available Potassium (K2O)	17.1



Date Sampled/Received: 09 Nov. 17 / 10 Nov. 17

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego CA 92123

Product Identification Compost
Red 6-9 Middles

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	76 <i>tel:</i> 831.724.5422	fax: 831.724.3188	
Compost Parameters	Reported as (units of measure)	Test Results	Test Results	
Plant Nutrients:	%, weight basis	Not reported	Not reported	
Moisture Content	%, wet weight basis	26.4		
Organic Matter Content	%, dry weight basis	92.8		
pН	units	4.15		
Soluble Salts (electrical conductivity EC 5)	dS/m (mmhos/cm)	dS/m (mmhos/cm) 5.1		
Particle Size or Sieve Size	maxium aggregate size, inches	1.00		
Stability Indicator (respirometry	·)		Stability Rating:	
CO ₂ Evolution	mg CO ₂ -C/g OM/day	4.2 Moderately Un-Stable		
	mg CO ₂ -C/g TS/day	O ₂ -C/g TS/day 3.9		
Maturity Indicator (bioassay)				
Percent Emergence	average % of control	93.3		
Relative Seedling Vigor average % of control		116.8		
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform	
		Pass	Salmonella	
Trace Metals	PASS/FAIL: per US EPA Class A	D	As,Cd,Cr,Cu,Pb,Hg	
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn	

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Nov17B	Laboratory Number: 7110376-1/1
Analyst: Assaf Sadeh	asy Salel	www.compostlab.com



US COMPOSTING

Seal of Testing Assurance

Date Sampled/Received: 09 Nov. 17 / 10 Nov. 17

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego

CA 92123

Product Identification Compost

Red 6-9 Middles

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control La	b; 42 Hangar Way; Watsonville, CA 9507	76 <i>tel:</i> 831.724.5422	fax: 831.724.3188	
Compost Parameters Reported as (units of measure)		Test Results	Test Results	
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis	
Nitrogen	Total N	0.54	0.73	
Phosphorus	P ₂ O ₅	0.16	0.21	
Potassium	K ₂ O	0.60	0.82	
Calcium	Ca	0.54	0.73	
Magnesium	Mg	0.13	0.18	
Moisture Content	%, wet weight basis	26.4		
Organic Matter Content	%, dry weight basis	92.8		
pH	units	4.15		
Soluble Salts (electrical conductivity EC 3)	dS/m (mmhos/cm)	5.1		
Particle Size or Sieve Size	% under 9.5 mm, dw basis	26.6		
Stability Indicator (respirometr	עי		Stability Rating:	
CO ₂ Evolution	mg CO ₂ -C/g OM/day mg CO ₂ -C/g TS/day	4.2 Moderately Un-Stab		
Maturity Indicator (bioassay)				
Percent Emergence	average % of control	93.3		
Relative Seedling Vigor	average % of control	116.8		
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform	
		Pass	Salmonella	
Trace Metals PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.13, Tables 1 and 3.		Pass	As,Cd,Cr,Cu,Pb,Hg Mo,Ni,Se,Zn	

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Nov17B	Laboratory Number: 7110376-1/1	
Analyst: Assaf Sadeh	May Salel	www.compostlab.com	



US COMPOSTING

Seal of Testing Assurance

Seal of Testing

Caltrans

Attachment 4

City of San Diego Environmental Services

Burton Ewert 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego CA 92123

Product Identification:

Red 6-9 Middles

Date Sampled/Received:

09 Nov. 17 / 10 Nov. 17

COMPOST TECHNICAL DATA SHEET for Caltrans

LABORATORY: Soil Control Lab, 42 Hangar Way, Watsonville, CA 95076 tel (831) 724-5422 fax (831) 724-3188 www.compostlab.com

Compost Parameters	Test Results	Reported as (units of measure)	TMECC Test Method	
pH	4.15	Unitless	04.11-A 1:5 Slurry pH	
Soluble Salts (electrical conductivity)	5.1	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method Mass Basis	
Moisture content	26.4	%, wet weight basis	03.09-A - Total Solids and Moisture	
Organic Matter Content	92.8	%, dry weight basis	05.07-A Loss-on-Ignition Organic Matter Method (LOI)	
Maturity Indicator (bioassay)				
Percent Emergence	93.3	average % of control	05.05-A Germination and vigor	
Relative Seedling Vigor	116.8	average % of control		
Stability Indicator	4.2	mg CO2-C/g OM/day	05.08-B Carbon Dioxide Evoultion Rate	
Particle Size	article Size 26.6		02.02-B Sample Sieving for Aggregate Size Classification	
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.01-B Fecal coliforms	
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.02 Samonella	
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Total content	
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Sharps content	
Heavy Metals Content	y Metals Content Pass		04.06-Heavy Metals standard, and Hazardous Elements	

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org.

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality. or suitability for any particular use.

Laboratory Group:

Nov17B

Laboratory Number:

7110376-1/1

Analyst: Assaf Sadeh

Clay Sobel

www.compostlab.com

ANALYTICAL CHEMISTS
and
BACTERIOLOGISTS
Approved by State of California

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

SOIL CONTROL LAB

Account #: 7110376-1/1-6671 Group: Nov17B #46 Reporting Date: November 28, 2017

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 10 Nov. 17
Sample Identification: Red 6-9 Middles
Sample ID #: 7110376 - 1/1

$ \begin{array}{llllllllllllllllllllllllllllllllllll$	Biologically
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	Available C
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4.3
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	4.0
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	oderately unstable
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Calcium (Ca): 0.73 0.54 % Magnesium (Mg): 0.18 0.13 % Sulfate (SO ₄ -S): 410 300 mg/kg Boron (Total B): 26 19 mg/kg Moisture: 0 26.4 % Sodium (Na): 0.26 0.19 % Chloride (CI): 0.34 0.25 % pH Value: NA 4.15 unit Bulk Density: 10 14 lb/cu ft Carbonates (CaCO ₃): <0.1	
Calcium (Ca): 0.73 0.54 % Magnesium (Mg): 0.18 0.13 % Sulfate (SO ₄ -S): 410 300 mg/kg Boron (Total B): 26 19 mg/kg Moisture: 0 26.4 % Sodium (Na): 0.26 0.19 % Chloride (CI): 0.34 0.25 % pH Value: NA 4.15 unit Bulk Density: 10 14 lb/cu ft Carbonates (CaCO ₃): <0.1	
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Sulfate (SO ₄ -S): 410 300 mg/kg Boron (Total B): 26 19 mg/kg Moisture: 0 26.4 % Sodium (Na): 0.26 0.19 % Chloride (Cl): 0.34 0.25 % Pathogens Results Units Fecal Coliform < 7.5	
Boron (Total B): 26 19 mg/kg Moisture: 0 26.4 % Sodium (Na): 0.26 0.19 % Chloride (Cl): 0.34 0.25 % Pathogens Results Units Fecal Coliform < 7.5	
Moisture: 0 26.4 % Sodium (Na): 0.26 0.19 % Chloride (Cl): 0.34 0.25 % pH Value: NA 4.15 unit Bulk Density: 10 14 lb/cu ft Carbonates (CaCO ₃): <0.1	
Chloride (CI): 0.34 0.25 % Fecal Coliform < 7.5 MPN/g pH Value: NA 4.15 unit Salmonella < 3	
Chloride (CI): 0.34 0.25 % pH Value: NA 4.15 unit Bulk Density: 10 14 lb/cu ft Carbonates (CaCO3): <0.1	Rating
Bulk Density: 10 14 lb/cu ft Date Tested: 10 Nov. 17 Carbonates (CaCO3): <0.1	pass
Carbonates (CaCO3): <0.1	pass
Carbonates (CaCO3): <0.1	-X >>>
Organic Matter: 92.8 68.3 % Inerts % by weight Organic Carbon: 44.0 33.0 % Plastic < 0.5	
Organic Matter: 92.8 68.3 % Inerts % by weight Organic Carbon: 44.0 33.0 % Plastic < 0.5	
Organic Carbon: 44.0 33.0 % Plastic < 0.5	
Ash: 7.2 5.3 % Glass < 0.5	
C/N Ratio 61 61 ratio Metal < 0.5	
AgIndex 3 3 ratio Sharps ND	

Metals	Dry wt.	EPA Limit	units	Size Distrib	ution	
Aluminum (AI):	730	7-7	mg/kg	MM	% by weight	
Arsenic (As):	0.91	41	mg/kg	> 50	0.0	
Cadmium (Cd):	< 1.0	39	mg/kg	25 to 50	0.0	
Chromium (Cr):	2.6	1200	mg/kg	16 to 25	36.7	
Cobalt (Co)	< 1.0		mg/kg	9.5 to 16	36.7	
Copper (Cu):	5.9	1500	mg/kg	6.3 to 9.5	12.0	
Iron (Fe):	900		mg/kg	4.0 to 6.3	5.4	
Lead (Pb):	2.2	300	mg/kg	2.0 to 4.0	3.3	
Manganese (Mn):	71		mg/kg	< 2.0	5.8	
Mercury (Hg):	< 1.0	17	mg/kg			
Molybdenum (Mo):	< 1.0	75	mg/kg			

mg/kg

mg/kg

Zinc (Zn): 31 2800 mg/kg *Sample was received and handled in accordance with TMECC procedures.

420

36

1.6

< 1.0

Nickel (Ni):

Selenium (Se):

Account No.: 7110376 - 1/1 - 6671 Group: Nov17B No. 46 Date Received Sample i.d.

10 Nov. 17 Red 6-9 Middles

Sample I.d. No.

1/1 7110376

INTERPRETATION:

Page 1 of 3

Is You	r Compost	Stable?

Respiration Rate	Biodegradation Rate of Your Pile
4.2 mg CO2-C/	++++++++++++
g OM/day	< Stable > <moderately unstable=""> < Unstable > < High For Mulch</moderately>
Biologically Available Carb	
4.3 mg CO2-C/	++++++++++++++++++++++++++++++++++++++
g OM/day	Stable > < Moderately Unstable> < Unstable > < High For Mulch
Is Your Compost Mature?	
AmmoniaN/NitrateN ratio	
54 Ratio	+++++++++++++++++++++++++++++++++++++++
	VeryMature> < Mature > < Immature
Ammonia N ppm	
540 mg/kg	+++++++++++++++++++++++++++++++++++++++
dry wt.	VeryMature> < Mature > < Immature
Nitrate N ppm	
10 mg/kg	++++++
dry wt.	< Immature > < Mature
pH value	+++++++++++++++++++++++++++++++++++++++
4.15 units	<pre> Immature Imma</pre>
Cucumber Emergence	- unitiatule
93.3 percent	**************************************
Solo porconi	< Immature > < Mature
Is Your Compost Safe Re	garding Health?
Fecal Coliform	
< 1000 MPN/g dry wt.	++++++
	< Safe >< High Fecal Collform
Salmonella	
Less than 3 /4g dry wt.	++++++
	<safe (none="" detected)=""> < High Salmonella Count(> 3 per 4 grams)</safe>
Metals US EPA 503	
Metals US EPA 503 Pass dry wt.	++++++
Pass dry wt.	++++++
Pass dry wt. Does Your Compost Prov	++++++++ <all metals="" pass=""> < One or more Metals Fail</all>
Pass dry wt. <u>Does Your Compost Prov</u> Nutrients (N+P2O5+K2O)	+++++++++ <all metals="" pass=""> < One or more Metals Fail ide Nutrients or Organic Matter?</all>
Pass dry wt. <u>Does Your Compost Prov</u> Nutrients (N+P2O5+K2O) 1.8 Percent	+++++++++ All Metals Pass"> < One or more Metals Fail ide Nutrients or Organic Matter? +++++++++++++++++++++++++++++++++++
Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt.	++++++++ <ali metals="" pass<="" td=""></ali>
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Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. AgIndex (Nutrients / Sodium 3 Ratio	+++++++++ All Metals Pass"> < One or more Metals Fail." All Metals Pass
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Pass dry wt. Does Your Compost Prov. Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. Aglndex (Nutrients / Sodium 3 Ratio Plant Available Nitrogen (P/ 3 lbs/ton wet wt. C/N Ratio	++++++++ < One or more Metals Fail ide Nutrients or Organic Matter? +++++++++++++++++++++++++++++++++++
Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. AgIndex (Nutrients / Sodium 3 Ratio Plant Available Nitrogen (P/ 3 lbs/ton wet wt.	+++++++++ All Metals Pass
Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. Aglndex (Nutrients / Sodium 3 Ratio Plant Available Nitrogen (P/ 3 lbs/ton wet wt. C/N Ratio 61 Ratio	++++++++
Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. Aglndex (Nutrients / Sodium 3 Ratio Plant Available Nitrogen (P/ 3 lbs/ton wet wt. C/N Ratio 61 Ratio Soluble Available Nutrients	++++++++
Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. Aglndex (Nutrients / Sodium 3 Ratio Plant Available Nitrogen (P/ 3 lbs/ton wet wt. C/N Ratio 61 Ratio Soluble Available Nutrients 5.1 mmhos/cm	++++++++ ++++++++++++++++++++++++++++++++++++
Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. Aglndex (Nutrients / Sodium 3 Ratio Plant Available Nitrogen (P/ 3 lbs/ton wet wt. C/N Ratio 61 Ratio Soluble Available Nutrients	++++++++ ++++++++++++++++++++++++++++++++++++
Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. Aglndex (Nutrients / Sodium 3 Ratio Plant Available Nitrogen (P/ 3 lbs/ton wet wt. C/N Ratio 61 Ratio Soluble Available Nutrients 5.1 mmhos/cm dry wt.	+++++++++
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Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. Aglndex (Nutrients / Sodium 3 Ratio Plant Available Nitrogen (P/ 3 lbs/ton wet wt. C/N Ratio 61 Ratio Soluble Available Nutrients 5.1 mmhos/cm dry wt. Lime Content (CaCO3) 0 Lbs/ton dry wt.	++++++++
Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. Aglndex (Nutrients / Sodium 3 Ratio Plant Available Nitrogen (Provent) 3 lbs/ton wet wt. C/N Ratio 61 Ratio Soluble Available Nutrients 5.1 mmhos/cm dry wt. Lime Content (CaCO3) 0 Lbs/ton	++++++++
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Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. Aglndex (Nutrients / Sodium 3 Ratio Plant Available Nitrogen (Provent) 3 lbs/ton wet wt. C/N Ratio 61 Ratio Soluble Available Nutrients 5.1 mmhos/cm dry wt. Lime Content (CaCO3) 0 Lbs/ton dry wt. What are the physical provent Percent Ash 7.2 Percent dry wt. Sieve Size % > 6.3 MM (0.25	++++++++++++++++++++++++++++++++++++++
Pass dry wt. Does Your Compost Prov Nutrients (N+P2O5+K2O) 1.8 Percent dry wt. Aglndex (Nutrients / Sodium 3 Ratio Plant Available Nitrogen (P/ 3 lbs/ton wet wt. C/N Ratio 61 Ratio Soluble Available Nutrients 5.1 mmhos/cm dry wt. Lime Content (CaCO3) 0 Lbs/ton dry wt. What are the physical pro Percent Ash 7.2 Percent dry wt.	++++++++++++++++++++++++++++++++++++++

Account No.:

7110376 - 1/1 - 6671

Nov17B No. 46 Group:

Date Received Sample i.d.

10 Nov. 17 Red 6-9 Middles

Sample I.d. No.

1/1

7110376

INTERPRETATION:

Is Your Compost Stable?

Page 2 of 3

Respiration Rate

Moderate-selected use 4.2

mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

Moderate-selected use

mg CO2-C/g OM/day

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate form, lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active. Is

Your Compost Mature?

AmmoniaN:NitrateN ratio 54 immature

Ammonia N	ppm
540	immature
Nitrate N ppr	n
10	immature
pH value	
4.15	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health?

Fecal Coliform

Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial < 1000 compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

low nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.:

Date Received

10 Nov. 17 Red 6-9 Middles

1/1

7110376 - 1/1 - 6671 Group: Nov1

Nov17B No. 46

Sample i.d. Sample I.d. No.

7110376

INTERPRETATION:

AgIndex (Nutrients/Na+CI)

Page 3 of 3

Low nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

- Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

 C/N Ratio
- Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 5.1 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

" 0 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

7.2 Low ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

85.4 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Particle Size Distribution

Each size fraction is measured by weight, volume and bulk density. These results are particularly relevent with decisions to screen or not, and if screening, which size screen to use. The bulk density indicates if the fraction screened is made of light weight organic material or heavy mineral material. Removing large mineral material can greatly improve compost quality by increasing nutrient and organic concentrations.

Appendix:	Estimated available nutrients for	use when calculating application rates
Plant Available Nitrogen (PAN) calculation	ns:	lbs/ton (As Rcvd.)
PAN = (X * (organic N)) + ((NH4-N) + (NC)))3-N))	
X value = If BAC < 2 then $X = 0.1$	Plant Available Nitrogen (PAN)	2.8
If BAC =2.1 to 5 then X =	: 0.2 Ammonia (NH4-N)	0.80
If BAC =5.1 to 10 then X	= 0.3 Nitrate (NO3-N)	0.02
If BAC > 10 then X = 0.4	Available Phosphorus (P2O5*0.6	34) 2.0
Note: If C/N ratio > 15 additional N should	d be applied. Available Potassium (K2O)	12.0

April 17, 2018

Mr. Bill Prinz Program Manager Solid Waste Local Enforcement Agency (LEA) 9601 Ridghaven Court, Suite 220, MS 1102B San Diego, CA 92123

Dear Mr. Prinz:

Reference: Quarterly Report-January through March, 2018

The City of San Diego's Environmental Services Department is submitting this report in compliance with the Self-Monitoring requirements in Compostable Materials Handling Facility Permit number 37-AB-0003 for the Miramar Greenery. The reporting period is for January through March, 2018.

Attachment 1 reports the daily tonnage received by material type and number of vehicles using the site. Attachment 2 summarizes the Log of Special Occurrences, Load Check results and also includes quantities of "contaminants" hauled to the landfill. Attachment 3 summarizes the volume of product leaving the facility per month. Attachment 4 is the sampling results for pathogenic organisms, metals and contaminants as required by 14 CCR, Chapter 3.1, and Article 7.

If you have any questions or comments regarding this report, please feel free to contact me at (858) 492-6151 or Burton Ewert at (858) 627-3320.

Sincerely,

James Hay Interim Program Manager

JH/bce

Enclosures: Attachments 1-4

cc: Mario X. Sierra, Director, Environmental Services Department Hassan Yousef, Assistant Director, Environmental Services Department Alex Garcia, Deputy Director, Environmental Services Department Burton Ewert, Biologist III, Environmental Services Department

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 01/02/2018 To 03/31/2018

This document was last refreshed on April 01, 2018

	CHRIS	TMAS			FOOD \	NASTE							
	TREES		FOOD WASTE		MULT		GREE	NERY	WOOD	WASTE	тот	ALS	
DATE	LOADS	TONG	LOADS	TONG	LOADC	TONG	LOADC	TONG	LOADC	TONG	TOTAL	TOTAL	
	LOADS	TONS	LOADS	TONS	LUADS	IUNS	LOADS	IUNS	LOADS	TONS	# OF LOADS	TOTAL TONS	
01/02/2018	34	35.23	2	10.27	3	15.88	165	310.77	8	15.91	212	388.06	
01/03/2018	28	29.85	1	2.75	1	3	156	248.11	9	13.19	195	296.9	
01/04/2018	29	27.04	9	27.61	3	3.81	154	241.42	5	12.19	200	312.07	
01/05/2018	12	7.62	4	14.55	1	2.31	138	178.25	7	5.08	162	207.81	
01/06/2018	42	60.09	5	9.7	3	10.52	202	217.8	6	7.37	258	305.48	
01/07/2018	36	38.26					180	154.52	8	7.63	224	200.41	
01/08/2018	24	36.19	4	13.24	3	10.97	198	357.01	5	5.36	234	422.77	
01/09/2018	10	18.155	4	8.26	1	2.34	54	208.87	3	5.43	72	243.06	
01/10/2018	13	7.91	3	13.2	3	11.9	83	192.35	1	1.3	103	226.66	
01/11/2018	12	18.62	8	27.34	2	2.5	130	201.6	11	11.66	163	261.72	
01/12/2018	21	23.15	3	6.1	2	8	171	311.54	11	10.33	208	359.12	
01/13/2018	37	58.97	3	10.04	1	2.43	256	217.95	10	8.37	307	297.76	
01/14/2018	26	20.31	1	0.12			173	141.08	2	1.38	202	162.89	
01/15/2018	18	11.47	6	25.97	3	15.61	211	435.45	10	9.01	248	497.51	
01/16/2018	16	18.34	5	9.58	1	1.92	195	313.19	9	9.75	226	352.78	
01/17/2018	5	3.61	4	14.94	2	7.04	180	249.36	9	17.4	200	292.35	
01/18/2018	8	4.37	7	21.16	3	9.45	186	266.91	7	8.39	211	310.28	
01/19/2018	5	1.48	4	13.09	3	11.87	166	279.27	13	10.72	191	316.43	
01/20/2018	25	24.57	3	17.89	1	0.54	253	217.34	8	11.13	290	271.47	
01/21/2018	9	4.51					195	157.58	10	14.19	214	176.28	
01/22/2018	3	3.66	5	17.76	3	15.03	193	375.11	8	7.24	212	418.8	
01/23/2018	6	3.56	3	10.21	1	2.94	191	319.2	12	15.41	213	351.32	
01/24/2018	4	1.26	3	9.25	3	11.77	178	259.31	6	9.23	194	290.82	
01/25/2018	11	5.52	9	35.26	3	10.19	153	201.33	7	5.37	183	257.67	
01/26/2018	4	2.48	3	9.57	3	12.76	139	220.81	7	7.71	156	253.33	
01/27/2018	13	11.45	3	10.85	1	2.37	228	202.73	5	7.71	250	235.11	
01/28/2018	4	2.2					181	145.34	8	8.2	193	155.74	
01/29/2018	4	1.63	4	14.13	3	15.61	210	391.57	10	20.09	231	443.03	
01/30/2018	3	1.79	5	19.41	1	2.15	158	267.37	7	6.92	174	297.64	
01/31/2018	2	1.38	3	12.62	3	8	178	259.52	8	9.51	194	291.03	
Monthly Total	464	484.68	114	384.87	57	200.91	5255	7542.7	230	283.18	6120	8896.3	

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 01/02/2018 To 03/31/2018

This document was last refreshed on April 01, 2018

	CHRIS TRE		FOOD \	WASTE	FOOD \		GREE	NERY	WOOD	WASTE	ТОТ	ALS
DATE							LOADS		LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
02/01/2018	3	1.5	7	15.71	2	3.49	156	208.22	12	13.51	180	242.43
02/02/2018	3	1.51	3	7.1	3	15.02	173	280.18	6	4.83	188	308.64
02/03/2018	12	5.66	5	21.87	1	1.14	254	205.56	11	12.66	283	246.89
02/04/2018	10	5.77					164	122.47	2	6.3	176	134.54
02/05/2018	4	1.63	4	15.09	3	14.55	160	285.49	20	22.6	191	339.36
02/06/2018	2	1.1	5	17.44	2	5.22	169	299.31	12	14.37	190	337.44
02/07/2018	1	0.69	3	10.41	3	11.54	175	259.14	11	17.37	193	299.15
02/08/2018	3	2.08	8	27.73	2	2.96	186	222.57	9	8.17	208	263.51
02/09/2018	4	2.48	3	10.65	3	12.73	166	224.28	9	11.14	185	261.28
02/10/2018	6	2.72	3	7.67	1	1.92	213	179.25	12	8.92	235	200.48
02/11/2018	10	6.05					182	144.9	6	3.74	198	154.69
02/12/2018	2	1.38	6	20.51	3	13.88	165	357.58	15	16.4	191	409.75
02/13/2018	1	0.41	4	16.89	1	2.39	141	236.4	11	12.8	158	268.89
02/14/2018	1	0.69	3	11.18	3	11.63	163	274.13	11	14.1	181	311.73
02/15/2018			6	17.89	2	3.04	156	201.38	10	10.75	174	233.06
02/16/2018	1	0.69	4	13.72	3	11.69	130	222.66	8	15.76	146	264.52
02/17/2018	5	1.75	4	9.19	1	2.21	233	182.08	7	11.08	250	206.31
02/18/2018	1	0.69					157	125.55	6	6.63	164	132.87
02/19/2018	1	0.69	5	22.54	3	14.17	168	329.9	11	10.95	188	378.25
02/20/2018	1	0.69	3	8.14	1	3.25	150	242.45	9	9.16	164	263.69
02/21/2018			1	4.69	2	6.55	181	253.65	7	12.68	191	277.57
02/22/2018			10	45.42	3	7.53	144	189.84	13	14.41	170	257.2
02/23/2018			3	9.27	3	11.37	135	214.47	9	8.5	150	243.61
02/24/2018	2	1.1	2	5.52	1	2.12	193	146.29	8	5.54	206	160.57
02/25/2018							145	118.09	5	2.89	150	120.98
02/26/2018			4	15.65	2	8.11	184	357.23	8	8.75	198	389.74
02/27/2018	1	0.12	6	19.34	2	11.34	76	203.42	6	3.98	91	238.2
02/28/2018	1	0.12	4	22.96	2	8.6	109	155.61	12	26.27	128	213.56
Monthly Totals	75	39.52	106	376.58	52	186.45	4628	6242.1	266	314.26	5127	7158.9

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 01/02/2018 To 03/31/2018

This document was last refreshed on April 01, 2018

	CHRIS TRE		FOOD \	NASTE	FOOD WASTE		GREE	NERY	WOOD	WASTE	ТОТ	ALS
DATE	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
03/01/2018			7	18.48	2	3.49	137	193.63	7	12.7	153	228.3
03/02/2018	2	1.38	2	6.29	3	10.24	148	232.86	5	8.5	160	259.27
03/03/2018			4	16.95	1	3.32	83	74.01	7	4.82	95	99.1
03/04/2018	2	0.24					103	81.67	7	4.26	112	86.17
03/05/2018			5	17.79	3	14.67	153	313.18	5	3.74	166	349.38
03/06/2018	3	2.38	4	10.71	1	2.15	140	260.49	9	9.1	157	284.83
03/07/2018			3	20.64	3	12.01	157	214.09	8	8.47	171	255.21
03/08/2018			8	30.2	2	3.54	146	194.54	10	10.19	166	238.47
03/09/2018			3	8.34	3	11.05	149	222.9	12	15.51	167	257.8
03/10/2018			1	3.14	1	1.57	123	92.67	3	1.82	128	99.2
03/11/2018							82	62.22	2	1.39	84	63.61
03/12/2018			5	13.28	3	10.57	187	349.03	13	10.64	208	383.52
03/13/2018			7	27.84	1	4.48	163	250.9	6	14.56	177	297.78
03/14/2018			2	9.02	3	10.86	133	225.9	5	2.93	143	248.71
03/15/2018	1	0.69	7	27.28	2	3.08	92	168.24	4	3.11	106	202.4
03/16/2018			3	8.68	3	12.07	156	266.5	7	12.51	169	299.76
03/17/2018	1	0.12	3	11.11	1	2.31	98	69.78	3	4.74	106	88.06
03/18/2018							110	88.49	2	2.53	112	91.02
03/19/2018	1	0.12	6	29.15	2	8.82	154	310.35	10	7.25	173	355.69
03/20/2018			6	24	1	1.66	187	318.17	7	4.26	201	348.09
03/21/2018			3	3.66	3	11.76	164	250.84	13	14.33	183	280.59
03/22/2018			7	29.5	2	3.01	122	177.6	5	6.6	136	216.71
03/23/2018			3	8.99	2	7.8	99	176.48	5	3.07	109	196.34
03/24/2018	1	0.69	2	9.68	1	2.03	190	152.03	10	7.13	204	171.56
03/25/2018							148	119.76	8	5.24	156	125
03/26/2018			6	24.49	3	17.78	176	365.85	11	8.17	196	416.29
03/27/2018			5	15.02	1	2.03	165	275.48	4	11.77	175	304.3
03/28/2018			1	2.46	3	11.54	162	266.71	9	9.82	175	290.53
03/29/2018			6	15.47	2	2.61	162	199.53	9	16.08	179	233.69
03/30/2018	1	0.69	5	15.06	3	13.7	151	245.37	11	16.86	171	291.68
03/31/2018			3	9.5	1	1.71	198	165.37	8	7.69	210	184.27
Monthly	10	6 24	447	416.73	EC	100.00	4420	6204.6	225	249.79	4040	7047 0
Totals FY18	12	6.31	117	410.73	56	189.86	4438	6384.6	225	249.19	4848	7247.3
Quarterly Sum:	551	530.51	337	1178.2	165	577.22	14321	20169	721	847.23	16095	23303

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

SPECIAL

DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
		JANUARY 20	18
1/1/2018	;	Closed	0
1/2/2018	NSO		9
1/3/2018	NSO	LEA Inspection	0
1/4/2018	NSO		9
1/5/2018			0
1/6/2018	NSO		12
1/7/2018	NSO		0
1/8/2018			0
1/9/2018		Rain, no trailers	6
1/10/2018		Rain, muddy conditions.	0
1/11/2018	NSO		0
		Customer cut himself load	
1/12/2018		Refused service	12
1/13/2018			0
1/14/2018			0
1/15/2018			6
1/16/2018			0
1/17/2018			9
1/18/2018			0
1/19/2018			0
1/20/2018			6
1/21/2018			0
1/22/2018			0
1/23/2018			9
1/24/2018			0
1/25/2018			0
1/26/2018			0
1/27/2018			3
1/28/2018			0
1/29/2018			0
1/30/2018			3
1/31/2018	NSO		0
		Monthly Total	84

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

SPECIAL

DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
		FEBRUARY 2017	
2/1/2018			0
2/2/2018			9
2/3/2018			0
2/4/2018			0
2/5/2018			3
2/6/2018			0
2/7/2018		LEA Inspection	0
2/8/2018			12
2/9/2018			0
2/10/2018			0
2/11/2018	B NSO		9
2/12/2018			0
2/13/2018			0
2/14/2018			12
2/15/2018			0
2/16/2018		Traffic accident at Fee Booth. Police	0
2/17/2018			6
2/18/2018			0
2/19/2018			0
2/20/2018			0
2/21/2018			6
2/22/2018			0
2/23/2018			0
2/24/2018			6
2/25/2018			0
2/26/2018			0
2/27/2018			0
2/28/2018	B NSO		9
		Monthly Total	72

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

SPECIAL

DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
		MA	CH 2018
3/1/2018	NSO		0
3/2/2018	NSO		6
3/3/2018	NSO		0
3/4/2018	NSO		0
3/5/2018	NSO		15
3/6/2018	NSO		0
3/7/2018	NSO		0
3/8/2018	NSO		0
3/9/2018	NSO		9
3/10/2018	NSO		0
3/11/2018	NSO		6
3/12/2018	NSO		0
3/13/2018	NSO		0
3/14/2018	NSO	LEA Inspection	9
3/15/2018		Rainy conditions	0
3/16/2018			0
3/17/2018			0
3/18/2018			6
3/19/2018			0
3/20/2018			0
3/21/2018			0
3/22/2018		Spotty rain	15
3/23/2018		Spotty rain early	0
3/24/2018			0
3/25/2018			0
3/26/2018			6
3/27/2018			0
3/28/2018			3
3/29/2018			0
3/30/2018			0
3/31/2018	NSO		0
		Monthly ⁻	otal 75

		Incom	ing Tons	3							Outgo	ing Yards			
Month/ Year	Clean Greens	Wood	X-Mas	Food	Drywall/ Animal	Total	Greens Trash	ADC	Miramar Slope Mulch	Other Internal Mulch	Other Internal Chips	Other Internal Compost		Sales (cubic	yards)
			Trees	Waste	Bedding in FY11		tons	yards	yards	yards	yards	yards	ALL Mulch	Compost & Overs	All Woodchips
							FY 06	6 Totals							
FY06 Totals	95,691	3,154	1,004		0	99,849	888		12,646	3,620	0	0	3,455	29,245	11,060
					_			Totals							
FY07 Totals	95,772	3,679	785		0	100,235	924		1,140	64,040	0	0	3,762	22,550	13,356
E)(00 T ()	22.422	1 4 6 4 6 1	207	4 400	700	405 500		Totals	44.704	0.050	•	44.000	44.054	40.055	05.004
FY08 Totals	98,430	4,042	897	1,462	766	105,596	948	7,140	41,784	8,350	0	11,230	11,851	19,955	25,201
FY09 Totals	94,078	4,361	922	2,162	73	101,596	912	Totals 2,545	20.470	44 220	0	0	28,993	20,102	22,817
F109 Totals	94,078	4,361	922	2,162	73	101,596	_	Totals	38,178	11,330	U	U	20,993	20,102	22,017
FY10 Totals	97,041	3,344	983	1,896	0	103,264	800	4.445	25,710	5,000	0	0	29,911	25,328	19,828
1 1 10 Totals	97,041	3,344	903	1,090	U	103,204		Totals	25,710	5,000	U	U	29,911	25,326	19,020
FY11 Totals	91,799	3,121	1,037	2,409	12	98.379	792	32.644	13.754	0	0	0	24,060	19.175	16,878
TTTT TOtals	31,733	3,121	1,037	2,403	12	30,373		Totals	13,734	U	U	U	24,000	19,173	10,676
FY12 Totals	88,507	3,419	1,035	3,689	60	96,710	676	52.068	18,304	3,950	0	0	27,015	26,731	17,168
	00,001	0,410	1,000	0,000		00,710		Totals	10,004	0,000			21,010	20,101	17,100
FY13 Totals	90,555	3,339	1,085	5,396	127	100,502	881	65,370	16,520	0	0	0	45,676	29,546	17,764
	,		7				FY14	Totals							, -
FY14 Totals	90,198	3,753	1,040	7,481	310	102,782	653	54,840	8,360	0	0	2,106	52,894	30,302	13,369
							FY15	Totals							
FY15 Totals	87,292	4,368	857	9,388	166	102,071	911	31,940	6,932	0	0	0	56,516	30,667	15,648
							FY16	Totals							
FY16 Totals	92,590	4,645	1,096	7,605	0	105,935	1,020	15,356	5,021	175	0	0	78,828	24,901	16,103
								' Totals							
FY17 Totals	89,727	4,554	986	7,786	0	103,052	858	33,124	3,164	2,044	0	0	68,671	22,823	14,011
								Totals							
Jul-17	8210		0		0	9315	78	1,116	0				7,050	1,885	1,565
Aug-17	8547	358	0	742	0	9647	76	7,100	0				3,602	2,606	1,670
Sep-17	7529	285 371	0		0	8490	87	4,144	0 9264				5,943	1397 1737	1,211 837
Oct-17 Nov-17	8133 7472	3/1	0	635	0	9178 8419	78 90	0	132				3683 3807	1/3/	837 573
Dec-17	6765	312	145	522	0	7759	90 87	0	0			1340	3730	1164	472
Jan-18	7543	283	485	585	0	8896	84	704	0			1040	2638	1326	261
Feb-18	6242	314	403	563	0	7159	72	168	2548				2193	1113	1383
Mar-18	6345	250	6	607	0	7208	75	2332	484				2850	1089	519
Apr-18															
May-18															
Jun-18															
FY18 Totals	66,786	2,868	676	5,740	0	76,071	727	15,564	12,428	0	0	1,340	35,496	13,891	49,387

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TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 8010563-1/1-6671 Group: Jan18D #6 Reporting Date: February 9, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 23 Jan. 18

Sample Identification: Compost Green 1&2

Sample ID #: 8010563 - 1/1

Nutrients	Dry wt.	As Rcvd.	units	Sta
Total Nitrogen:	1.8	1.5	%	CO
Ammonia (NH ₄ -N):	390	330	mg/kg	mg
Nitrate (NO ₃ -N):	12	9.9	mg/kg	mg
Org. Nitrogen (OrgN):	1.8	1.5	%	
Phosphorus (as P_2O_5):	0.55	0.46	%	
Phosphorus (P):	2400	2000	mg/kg	Ма
Potassium (as K ₂ O):	1.1	0.93	%	Co
Potassium (K):	9200	7700	mg/kg	Em
Calcium (Ca):	1.4	1.2	%	See
Magnesium (Mg):	0.34	0.29	%	
Sulfate (SO ₄ -S):	670	560	mg/kg	
Boron (Total B):	24	20	mg/kg	Pat
Moisture:	0	15.9	%	Fed
Sodium (Na):	0.29	0.24	%	Sal
Chloride (CI):	0.4	0.34	%	Da
pH Value:	NA	4.37	unit	
Bulk Density:	28	34	lb/cu ft	Ph
Carbonates (CaCO ₃):	<0.1	<0.1	lb/ton	Hai
Conductivity (EC5):	7.0	NA	mmhos/cm	Filr
Organic Matter:	51.3	43.2	%	Gla
Organic Carbon:	31.0	26.0	%	Ме
Ash:	48.7	40.9	%	Sha
C/N Ratio	17	17	ratio	Tot
AgIndex	5	5	ratio	101

Stability Indicat	or:		Biologically
CO2 Evolution		Respirometery	Available C
mg CO ₂ -C/g OM	/day	8.1	13.0
mg CO ₂ -C/g TS/	day	4.2	6.8
Stability Ratir	ng	unstable	unstable
Maturity Indicat	or: Cucun	nber Bioassay	
Compost:Vermic	ulite(v:v)	1:2	
Emergence (%)		93	
Seedling Vigor (%)	61	
Description o	f Plants	stunted	
Pathogens	Results	Units	Rating
Fecal Coliform	< 7.5	MPN/g	pass
Salmonella	< 3	MPN/4g	pass
Date Tested: 23 Ja	n. 18		
Physical Contai	minants	% by weight	
Hard Plastic		< 0.1	
Film Plastic		< 0.1	
Glass		< 0.1	
Metal		< 0.1	
Sharps		ND	
Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Alumnium (Al)	5800	-	mg/kg
Arsenic (As):	2.8	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	10	1200	mg/kg
Cobalt (Co)	2.5	-	mg/kg
Copper (Cu):	20	1500	mg/kg
Iron (Fe):	7900	-	mg/kg
Lead (Pb):	10	300	mg/kg
Manganese (Mn):	160	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.5	18	mg/kg
Nickel (Ni):	5.1	420	mg/kg
Selenium (Se):	< 1.0	36	mg/kg
Zinc (Zn):	76	2800	mg/kg

Size Distribu	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	1.7	
2.0 to 4.0	8.6	
< 2.0	89.7	
-		

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

23 Jan. 18 Account No.: Date Received

8010563 - 1/1 - 6671 Sample i.d. Compost Green 1&2 Jan18D No. 6 Sample I.d. No. 1/1 8010563 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile	
8.1 mg CO2-C/	+++++++	++++++++++++++++	
g OM/day	< Stable	> < Moderately Unstable > < Unstable	> < High For Mulch
Biologically Available Carbo	n (BAC)	Optimum Degradation Rate	
13.0 mg CO2-C/	++++++++	+++++++++++++++++++++++++++++++++++++++	
g OM/day	< Stable	> < Moderately Unstable > < Unstable	> < High For Mulch

Is Your Compost Mature?	2			
AmmoniaN/NitrateN ratio				
32 Ratio	++++++++++++++++	+++++++++++++++	++++++++++++++++++++	+++++++++++++++++++++++++
	VeryMature> <	Mature	>	< Immature
Ammonia N ppm				
390 mg/kg	+++++++++++++++	+++++++++++++++	++++++++	
dry wt.	VeryMature> <	Mature	> < ।	nmature
Nitrate N ppm	Pass			
12 mg/kg	+++++++			
dry wt.	< Immature		> < Mature	
pH value				
4.37 units	+++++++++++++++	++++++++++++++	+	
	< Immature		> < Mature	> < Immature
Cucumber Emergence				
93.3 percent	+++++++++++++++	++++++++++++++	+++++++++++++++++++	+++++++++++++
	< Immature			> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform		
< 1000 MPN/g dry wt.	++++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
3 ,	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" td=""><td>> < One or more Metals Fail</td></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)	
3.5 Percent	++++++
dry wt.	<low> < Average > < High Nutrient Content</low>
AgIndex (Nutrients / Sodiun	and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
5 Ratio	+++++++++++++++++++++++++++++++++++++++
	Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider
Plant Available Nitrogen (P.	N) Estimated release for first season
12 lbs/ton	+++++++
wet wt.	Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>
C/N Ratio	
17 Ratio	+++++++
	< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
Soluble Available Nutrients	& Salts (EC5 w/w dw)
7.0 mmhos/cm	++++++
dry wt.	SloRelease> < Average Nutrient Release Rate
Lime Content (CaCO3)	
0 Lbs/ton	+
dry wt.	< Low > < Medium > < High Lime Content (as CaCO3)

What are the physical properties of your compost?

Percent Ash		
48.7 Percent	+++++++++++++++++++++++++++++++++++++++	++++
dry wt.	< High Organic Matter > < Average	e > < High Ash Content
Sieve Size % > 6.3 MM (0.25	5")	
0.0 Percent	+	
dry wt.	All Uses > < Size May Restrict Uses f	or Potting mix and Golf Courses
***	All Uses > < Size May Restrict Uses f	or Potting mix and Golf Courses

Account No.: Date Received 23 Jan. 18

8010563 - 1/1 - 6671 Sample i.d. Compost Green 1&2 Group: Jan18D No. 6 Sample I.d. No. 1/1 8010563

INTERPRETATION:

Is Your Compost Stable?

Page two of three

Respiration Rate

8.1 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

13 High-for mulch mg CO2-C/g OM/day

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio 32 immature

Ammonia N	ppm
390	mature
Nitrate N ppr	n
12	immature
pH value	
4.37	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

 $Less than 3 \quad 3 \ / \ 4g dry \ wt. \quad Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.$

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.5 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 23 Jan. 18

8010563 - 1/1 - 6671 Sample i.d. Compost Green 1&2 Group: Jan18D No. 6 Sample I.d. No. 1/1 8010563

INTERPRETATION: AgIndex (Nutrients/Na+CI)

Page three of three

5 Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

17 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

7.0 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

0 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

48.7 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Particle Size Distribution

Each size fraction is measured by weight, volume and bulk density. These results are particularly relevent with decisions to screen or not, and if screening, which size screen to use. The bulk density indicates if the fraction screened is made of light weight organic material or heavy mineral material. Removing large mineral material can greatly improve compost quality by increasing nutrient and organic concentrations.

Appendix:		
	Estimated available nutrients for use when	calculating application rates
Plant Available Nitrogen (PAN) calculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		, ,
X value = If BAC < 2 then X = 0.1	Plant Available Nitrogen (PAN)	12.4
If BAC =2.1 to 5 then X = 0.2	Ammonia (NH4-N)	0.66
If BAC =5.1 to 10 then X = 0.3	Nitrate (NO3-N)	0.02
If BAC > 10 then X = 0.4	Available Phosphorus (P2O5*0.64)	5.8
Note: If C/N ratio > 15 additional N should be applied.	Available Potassium (K2O)	18.5



Date Sampled/Received: 22 Jan. 18 / 23 Jan. 18

City of San Diego Environmental Services

Burton Ewert 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego

CA 92123

Product Identification Compost
Middles Green 1&2

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab; 42 Hangar Way; Watsonville, CA 95076 tel: 831.724.5422 fax: 831.724.3188			
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	Not reported	Not reported
Moisture Content	%, wet weight basis	21.7	
Organic Matter Content	%, dry weight basis	85.7	
рН	units	4.14	
Soluble Salts (electrical conductivity EC ₅)	dS/m (mmhos/cm)	7.3	
Particle Size or Sieve Size	maxium aggregate size, inches	1.00	
Stability Indicator (respirometry	ν)		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day	4.9 Moderately Un-Stable	
	mg CO ₂ -C/g TS/day	4.2	Wioderatery On-Stable
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	100.0	
Relative Seedling Vigor	average % of control	95.6	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	As, Cd, Cr, Cu, Pb,	
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Jan18D	Laboratory Number: 8010564-1/1	
Analyst: Assaf Sadeh	any Sakel	www.compostlab.com	



Date Sampled/Received: 22 Jan. 18 / 23 Jan. 18

City of San Diego Environmental Services

Burton Ewert 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego

CA 92123

Product Identification Compost
Middles Green 1&2

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab; 42 Hangar Way; Watsonville, CA 95076 tel: 831.724.5422 fax: 831.724.3188			
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	Total N	1.1	1.4
Phosphorus	P_2O_5	0.21	0.27
Potassium	K ₂ O	0.78	1.0
Calcium	Ca	0.075	0.096
Magnesium	Mg	0.22	0.27
Moisture Content	%, wet weight basis	21.7	
Organic Matter Content	%, dry weight basis	85.7	
рН	units	4.14	
Soluble Salts (electrical conductivity EC 5)	dS/m (mmhos/cm)	7.3	
Particle Size or Sieve Size	% under 9.5 mm, dw basis	66.5	
Stability Indicator (respirometry	·)	•	Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day mg CO ₂ -C/g TS/day	4.9	Moderately Un-Stable
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	100.0	
Relative Seedling Vigor	average % of control	95.6	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Pass	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	rass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Jan18D	Laboratory Number:	8010564-1/1
Analyst: Assaf Sadeh	any Sakel	www.compostlab.com	



City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego CA 92123

Product Identification:

Middles Green 1&2

Date Sampled/Received: 22 Jan. 18 / 23 Jan. 18

COMPOST TECHNICAL DATA SHEET for Caltrans

LABORATORY: Soil Control Lab, 42 Hangar Way, Watsonville, CA 95076 tel (831) 724-5422 fax (831) 724-3188 www.compostlab.com

Compost Parameters	Test Results	Reported as (units of measure)	TMECC Test Method	
pН	4.14	Unitless	04.11-A 1:5 Slurry pH	
Soluble Salts	7.3	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method	
(electrical conductivity)	7.3	ds/iii (iiiiiiiios/ciii)	Mass Basis	
Moisture content	21.7	%, wet weight basis	03.09-A - Total Solids and Moisture	
Organic Matter Content	85.7	%, dry weight basis	05.07-A Loss-on-Ignition	
	03.7	70, dry weight basis	Organic Matter Method (LOI)	
Maturity Indicator (bioassay)				
Percent Emergence	100.0	average % of control	05.05-A Germination and vigor	
Relative Seedling Vigor	95.6	average % of control		
Stability Indicator			05.08-B Carbon Dioxide	
	4.9	mg CO2-C/g OM/day	Evoultion Rate	
		%, dry weight passing through	02.02-B Sample Sieving for	
Particle Size	66.5	9.5 mm	Aggregate Size Classification	
Dothorono	D	PASS/FAIL: Per US EPA Class A	07.01 B E11:f	
Pathogens	Pass	standard, 40 CFR 503.32(a)	07.01-B Fecal coliforms	
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.02 Samonella	
Physical Contaminants	0.88	%, dry weight basis	03.08-A - Man-Made Inerts Total content	
Physical Contaminants	None Detected	%, dry weight basis	03.08-A - Man-Made Inerts Sharps content	
H. Marala Cantana	D	PASS/FAIL: Per US EPA Class A	04.06-Heavy Metals standard,	
Heavy Metals Content	Pass	40 CFR 503.13, tables 1 and 3.	and Hazardous Elements	

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org.

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality. or suitability for any particular use.

Laboratory Group: Jan18D Laboratory Number: 8010564-1/1

Analyst: Assaf Sadeh

www.compostlab.com



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 8010564-1/1-6671 Group: Jan18D #7 Reporting Date: February 9, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 23 Jan. 18

Middles Green 1&2 Sample Identification: Sample ID #: 8010564 - 1/1

Nutrients	Dry wt.	As Rcvd.	units	Stability Indicator:		Biologically
Total Nitrogen:	1.4	1.1	%	CO2 Evolution	Respirometery	Available C
Ammonia (NH₄-N):	440	350	mg/kg	mg CO ₂ -C/g OM/day	4.9	8.5
Nitrate (NO ₃ -N):	19	15	mg/kg	mg CO ₂ -C/g TS/day	4.2	7.2
Org. Nitrogen (OrgN):	1.4	1.1	%	Stability Rating	moderately unstable	unstable
Phosphorus (as P_2O_5):	0.27	0.21	%			
Phosphorus (P):	1200	930	mg/kg	Maturity Indicator: Cucumber Bioassay		
Potassium (as K ₂ O):	0.99	0.78	%	Compost:Vermiculite(v:v) 1:2		
Potassium (K):	8300	6500	mg/kg	Emergence (%) 100		
Calcium (Ca):	0.096	0.075	%	Seedling Vigor (%)	96	
Magnesium (Mg):	0.27	0.22	%	Description of Plants	fungus	
Sulfate (SO ₄ -S):	640	500	mg/kg	,	Ü	
Boron (Total B):	25	19	mg/kg	Pathogens Resu	lts Units	Rating
Moisture:	0	21.7	%	Fecal Coliform < 7.5	5 MPN/g	pass
Sodium (Na):	0.32	0.25	%	Salmonella < 3	MPN/4g	, pass
Chloride (Cl):	0.5	0.39	%	Date Tested: 23 Jan. 18	ŭ	•
pH Value:	NA	4.14	unit			
Bulk Density :	10	13	lb/cu ft	Physical Contaminants	s % by weight	
Carbonates (CaCO ₃):	<0.1	<0.1	lb/ton	Hard Plastic	0.77	
Conductivity (EC5):	7.3	NA	mmhos/cm	Film Plastic	0.11	
Organic Matter:	85.7	67.1	%	Glass	< 0.1	
Organic Carbon:	42.0	33.0	%	Metal	< 0.1	
Ash:	14.3	11.2	%	Sharps	ND	
C/N Ratio	30	30	ratio		0.00	
AgIndex	3	3	ratio	Total	0.88	
Metals	Dry wt.	EPA Limit	units	Size Distribution		
Alumnium (AI)	1900	-	mg/kg	MM % by we	eight	
Arsenic (As):	1.7	41	mg/kg	> 50 0.0		
Cadmium (Ćd):	< 1.0	39	mg/kg	25 to 50 0.0		
Chromium (Cr):	4.3	1200	mg/kg	16 to 25 14.8		
Cobalt (Co)	1.2	-	mg/kg	9.5 to 16 18.7		
Copper (Cu):	8.3	1500	mg/kg	6.3 to 9.5 17.0		
Iron (Fe):	2300	-	mg/kg	4.0 to 6.3 15.5		
Lead (Pb):	< 1.0	300	mg/kg	2.0 to 4.0 14.4		
Manganese (Mn):	60	-	mg/kg	< 2.0 19.6		
Mercury (Hg):	< 1.0	17	mg/kg			
Molybdenum (Mo):	1.1	18	mg/kg			
Nickel (Ni):	1.8	420	mg/kg		Analys	t: Assaf Sadeh
Selenium (Se):	< 1.0	36	mg/kg		// sa	Salel
Zinc (Zn): *Sample was received ar	47	2800	mg/kg	ECC procedures	any	t: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 23 Jan. 18

8010564 - 1/1 - 6671 Sample i.d. Middles Green 1&2 Jan18D No. 7 Sample I.d. No. 1/1 8010564 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate	Biodegradation Rate of Your Pile			
4.9 mg CO2-C/	++++++			
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch
Biologically Available Carbo	n (BAC)	Optimum Degradation Rate		
8.5 mg CO2-C/	++++++++	++++++++++++++++++++		
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch

Is Your Compost Mature	<u>?</u>			
AmmoniaN/NitrateN ratio				
23 Ratio	++++++++++++++	++++++++++++++++++++	++++++++++++++++++	+++++++++++++++++++++
	VeryMature> <	Mature	> <	Immature
Ammonia N ppm				
440 mg/kg	+++++++++++++++	+++++++++++++++++++	+++++++++	
dry wt.	VeryMature> <	Mature	> < lmm	nature
Nitrate N ppm	Pass			
19 mg/kg	+++++++++++++			
dry wt.	< Immature	7	> < Mature	
pH value				
4.14 units	++++++++++++++	++++++++++++		
	< Immature		> < Mature	> < Immature
Cucumber Emergence				
100.0 percent	++++++++++++++	+++++++++++++++++++	+++++++++++++++++	+++++++++++++++++++++

Is Your Compost Safe Regarding Health?

Fecal Coliform		
< 1000 MPN/g dry wt.	++++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
	<safe (none="" detected)<="" th=""><th>> < High Salmonella Count(> 3 per 4 grams)</th></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail

>|< Mature

Does Your Compost Provide Nutrients or Organic Matter?

< Immature

Nutrients (N+P2O5+K2O)	
2.7 Percent	++++++++++++++++++
dry wt.	<low> < Average > < High Nutrient Content</low>
AgIndex (Nutrients / Sodiur	m and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
3 Ratio	+++++++++++++
	Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider
Plant Available Nitrogen (P.	AN) Estimated release for first season
7 lbs/ton	+++++++++++++++++++++++++++++++++++++++
wet wt.	Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>
C/N Ratio	
30 Ratio	+++++++++++++++++++++++++++++++++++++++
	< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
Soluble Available Nutrients	s & Salts (EC5 w/w dw)
7.3 mmhos/cm	++++++
dry wt.	SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" td=""></high>
Lime Content (CaCO3)	
0 Lbs/ton	+
dry wt.	< Low > < Medium > < High Lime Content (as CaCO3)

What are the physical properties of your compost?

Percent Ash	
14.3 Percent	++++++
dry wt.	< High Organic Matter > < Average > < High Ash Content
Sieve Size % > 6.3 MM (0.25)	5")
50.5 Percent	+++++++++++++++++++++++++++++++++++++++
dry wt.	All Uses > < Size May Restrict Uses for Potting mix and Golf Courses

Account No.: Date Received 23 Jan. 18

Middles Green 1&2 8010564 - 1/1 - 6671 Sample i.d. Sample I.d. No. Group: Jan18D No. 7 1/1 8010564

INTERPRETATION:

Is Your Compost Stable?

Respiration Rate

mg CO2-C/g OM/day 4.9 Moderate-selected use

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

Moderate-selected use mg CO2-C/g OM/day

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio

23	immature	
Ammonia N p	opm	
440	mature	
Nitrate N ppn	n	
19	immature	
pH value		
4.14	immature	

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Page two of three

Cucumber Bioassay

100.0

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the Less than 3 case of biosolids industry to determine adequate pathogen reduction.

Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content 27

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 23 Jan. 18

8010564 - 1/1 - 6671 Sample i.d. Middles Green 1&2
Group: Jan18D No. 7 Sample I.d. No. 1/1 8010564

INTERPRETATION: AgIndex (Nutrients/Na+CI)

Page three of three

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

7 Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied. **C/N Ratio**

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

7.3 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

0 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

14.3 Low ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

50.5 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Particle Size Distribution

Each size fraction is measured by weight, volume and bulk density. These results are particularly relevent with decisions to screen or not, and if screening, which size screen to use. The bulk density indicates if the fraction screened is made of light weight organic material or heavy mineral material. Removing large mineral material can greatly improve compost quality by increasing nutrient and organic concentrations.

Appendix:		
	Estimated available nutrients for use whe	n calculating application rates
Plant Available Nitrogen (PAN) calculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		
X value = If BAC < 2 then X = 0.1	Plant Available Nitrogen (PAN)	7.1
If BAC =2.1 to 5 then X = 0.2	Ammonia (NH4-N)	0.70
If BAC =5.1 to 10 then X = 0.3	Nitrate (NO3-N)	0.03
If BAC > 10 then $X = 0.4$	Available Phosphorus (P2O5*0.64)	2.7
Note: If C/N ratio > 15 additional N should be applied.	Available Potassium (K2O)	15.7



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 8010562-1/1-6671 Group: Jan18D #5 Reporting Date: February 9, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 23 Jan. 18

Sample Identification: Compost Green 7&8

Sample ID #: 8010562 - 1/1

Nutrients	Dry wt.	As Rcvd.	units	Si
Total Nitrogen:	1.8	1.4	%	С
Ammonia (NH ₄ -N):	110	85	mg/kg	m
Nitrate (NO ₃ -N):	16	12	mg/kg	m
Org. Nitrogen (OrgN):	1.8	1.4	%	
Phosphorus (as P_2O_5):	0.65	0.48	%	
Phosphorus (P):	2800	2100	mg/kg	M
Potassium (as K ₂ O):	1.3	0.96	%	С
Potassium (K):	11000	8000	mg/kg	Ε
Calcium (Ca):	1.6	1.2	%	S
Magnesium (Mg):	0.33	0.25	%	
Sulfate (SO ₄ -S):	1100	810	mg/kg	
Boron (Total B):	29	22	mg/kg	P
Moisture:	0	25.0	%	F
Sodium (Na):	0.34	0.26	%	S
Chloride (CI):	0.55	0.41	%	
pH Value:	NA	3.64	unit	
Bulk Density:	25	33	lb/cu ft	Р
Carbonates (CaCO ₃):	<0.1	<0.1	lb/ton	Н
Conductivity (EC5):	10	NA	mmhos/cm	Fi
Organic Matter:	63.8	47.9	%	G
Organic Carbon:	34.0	25.0	%	M
Ash:	36.2	27.1	%	S
C/N Ratio	18	18	ratio	T
AgIndex	4	4	ratio	Ľ

Stability Indicat	or:		Biologically
CO2 Evolution		Respirometery	Available C
mg CO ₂ -C/g OM	/day	4.3	9.2
mg CO ₂ -C/g TS/	day	2.7	5.9
Stability Ratin	ng	moderately unstable	unstable
Maturity Indicat	or: Cucun	nber Bioassay	
Compost:Vermio	culite(v:v)	1:2	
Emergence (%)		47	
Seedling Vigor (%)	36	
Description o	f Plants	stunted	
Pathogens	Results	Units	Rating
Fecal Coliform	< 7.5	MPN/g	pass
Salmonella	< 3	MPN/4g	pass
Date Tested: 23 Ja	n. 18		
Physical Conta	minants	% by weight	
Hard Plastic		< 0.1	
Film Plastic		< 0.1	
Glass		< 0.1	
Metal		< 0.1	
Sharps		ND	
Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Alumnium (Al)	3900	-	mg/kg
Arsenic (As):	2.4	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	7.8	1200	mg/kg
Cobalt (Co)	1.9	-	mg/kg
Copper (Cu):	21	1500	mg/kg
Iron (Fe):	5100	-	mg/kg
Lead (Pb):	9.6	300	mg/kg
Manganese (Mn):	150	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.5	18	mg/kg
Nickel (Ni):	4.0	420	mg/kg
Selenium (Se):	< 1.0	36	mg/kg
Zinc (Zn):	79	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	2.0	
2.0 to 4.0	13.3	
< 2.0	84.7	

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 23 Jan. 18

8010562 - 1/1 - 6671 Sample i.d. Compost Green 7&8 Jan18D No. 5 Sample I.d. No. 1/1 8010562 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate	Biodegradation Rate of Your Pile			
4.3 mg CO2-C/	++++++++	+++++		
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch
Biologically Available Carbo	n (BAC)	Optimum Degradation Rate		
9.2 mg CO2-C/	++++++++	++++++++++++++++++++	++	
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch

Is Your Compost Mature?	2			
AmmoniaN/NitrateN ratio				
6.9 Ratio	++++++++++++++	++++++++++++++++	++++++++++++++++++++++	+++++++++++
	VeryMature> <	Mature	> <	Immature
Ammonia N ppm				
110 mg/kg	++++++++++			
dry wt.	VeryMature> <	Mature	> <	nature
Nitrate N ppm	Pass			
16 mg/kg	++++++++++			
dry wt.	< Immature		> < Mature	
pH value				
3.64 units	++++++++++++++	++++++++++		
	< Immature		> < Mature	> < Immature
Cucumber Emergence				
46.7 percent	++++++++++++++	+++++++++++++++++	++	
	< Immature			> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform		
< 1000 MPN/g dry wt.	+++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
, , , , , , , , , , , , , , , , , , ,	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" td=""><td>> < One or more Metals Fail</td></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Does Tour Composition	nue Nutrients of Organic matter:
Nutrients (N+P2O5+K2O)	
3.8 Percent	+++++++++++++++++++++++++++++++++++++++
dry wt.	<pre><low> < Average > < High Nutrient Content</low></pre>
AgIndex (Nutrients / Sodium	m and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
4 Ratio	+++++++++++++++++++++++++++++++++++++++
	Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider
Plant Available Nitrogen (PA	AN) Estimated release for first season
9 lbs/ton	+++++++++++++++++++++++++++++++++++++++
wet wt.	Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>
C/N Ratio	
18 Ratio	+++++++++++++++++++++++++++++++++++++++
	< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
Soluble Available Nutrients	& Salts (EC5 w/w dw)
10 mmhos/cm	+++++++++++++++++++++++++++++++++++++++
dry wt.	SloRelease < Average Nutrient Release Rate
Lime Content (CaCO3)	
0 Lbs/ton	+
dry wt.	< Low > < Medium > < High Lime Content (as CaCO3)

What are the physical properties of your compost?

Percent Ash			
36.2 Percent	+++++++++++++++++++	+++++	
dry wt.	< High Organic Matter	> < Average	> < High Ash Content
Sieve Size % > 6.3 MM (0.25	j")		
0.0 Percent	+		
dry wt.	All Uses > < Size Ma	y Restrict Uses for Potting	mix and Golf Courses
•			

Account No.: Date Received 23 Jan. 18

8010562 - 1/1 - 6671 Sample i.d. Compost Green 7&8 Sample I.d. No. 8010562 Group: Jan18D No. 5 1/1

INTERPRETATION:

Is Your Compost Stable?

Page two of three

Respiration Rate

mg CO2-C/g OM/day 4.3 Moderate-selected use

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

Moderate-selected use mg CO2-C/g OM/day

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio

immature

6.9

Ammonia N p	pm
110	mature
Nitrate N ppm	1
16	immature
pH value	
3.64	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

46.7

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the Less than 3 case of biosolids industry to determine adequate pathogen reduction.

Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content 38

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 23 Jan. 18

8010562 - 1/1 - 6671 Sample i.d. Compost Green 7&8
Group: Jan18D No. 5 Sample I.d. No. 1/1 8010562

INTERPRETATION: AgIndex (Nutrients/Na+CI)

Page three of three

4 Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

9 Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied. **C/N Ratio**

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

High salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

0 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

36.2 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Particle Size Distribution

Each size fraction is measured by weight, volume and bulk density. These results are particularly relevent with decisions to screen or not, and if screening, which size screen to use. The bulk density indicates if the fraction screened is made of light weight organic material or heavy mineral material. Removing large mineral material can greatly improve compost quality by increasing nutrient and organic concentrations.

Appendix:	Catimated evailable nutrients for use when	colculating application rates
	Estimated available nutrients for use when	calculating application rates
Plant Available Nitrogen (PAN) calculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		,
X value = If BAC < 2 then X = 0.1	Plant Available Nitrogen (PAN)	8.5
If BAC =2.1 to 5 then X = 0.2	Ammonia (NH4-N)	0.17
If BAC =5.1 to 10 then X = 0.3	Nitrate (NO3-N)	0.02
If BAC > 10 then X = 0.4	Available Phosphorus (P2O5*0.64)	6.1
Note: If C/N ratio > 15 additional N should be applied.	Available Potassium (K2O)	19.3



Date Sampled/Received: 22 Jan. 18 / 23 Jan. 18

City of San Diego Environmental Services

Burton Ewert 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego

CA 92123

Product Identification	Compost
Middles Green 7&8	

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	6 <i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	Not reported	Not reported
Moisture Content	%, wet weight basis	34.2	
Organic Matter Content	%, dry weight basis	85.6	
pН	units	3.53	
Soluble Salts (electrical conductivity EC ₅)	dS/m (mmhos/cm)	10	
Particle Size or Sieve Size	maxium aggregate size, inches	1.00	
Stability Indicator (respirometry	v)		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day	4.6	Moderately Un-Stable
	mg CO ₂ -C/g TS/day	3.9	
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	93.3	
Relative Seedling Vigor	average % of control	73.6	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Dana	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Jan18D	Laboratory Number: 8010565-1/1
Analyst: Assaf Sadeh	any Sakel	www.compostlab.com



Date Sampled/Received: 22 Jan. 18 / 23 Jan. 18

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego

CA 92123

Product Identification Compost
Middles Green 7&8

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	6 <i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	Total N	1.0	1.5
Phosphorus	P_2O_5	0.32	0.48
Potassium	K ₂ O	0.82	1.2
Calcium	Ca	0.58	0.88
Magnesium	Mg	0.20	0.30
Moisture Content	%, wet weight basis	34.2	
Organic Matter Content	%, dry weight basis	85.6	
рН	units	3.53	
Soluble Salts (electrical conductivity EC 5)	dS/m (mmhos/cm)	10	
Particle Size or Sieve Size	% under 9.5 mm, dw basis	47.9	
Stability Indicator (respirometry	·)		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day mg CO ₂ -C/g TS/day	4.6 Moderately Un-Stable	
Maturity Indicator (bioassay)			1
Percent Emergence	average % of control	93.3	
Relative Seedling Vigor	average % of control	73.6	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Pass	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	rass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Jan18D	Laboratory Number:	8010565-1/1
Analyst: Assaf Sadeh	any Salel	www.compostlab.com	



City of San Diego Environmental Services

Burton Ewert 9601 Ridgehaven Ct., Suite 310 (MS

9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego CA 92123

Product Identification:

Middles Green 7&8

Date Sampled/Received: 22 Jan. 18 / 23 Jan. 18

COMPOST TECHNICAL DATA SHEET for Caltrans

LABORATORY: Soil Control Lab, 42 Hangar Way, Watsonville, CA 95076 tel (831) 724-5422 fax (831) 724-3188 www.compostlab.com

Compost Parameters	Test Results	Reported as (units of measure)	TMECC Test
			Method
pН	3.53	Unitless	04.11-A 1:5 Slurry pH
Soluble Salts	10	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method
(electrical conductivity)	10	ds/iii (iiiiiiiios/ciii)	Mass Basis
Moisture content	34.2	%, wet weight basis	03.09-A - Total Solids and Moisture
Organic Matter Content	85.6	%, dry weight basis	05.07-A Loss-on-Ignition
Organic Matter Content	65.0	70, dry weight basis	Organic Matter Method (LOI)
Maturity Indicator (bioassay)			
Percent Emergence	93.3	average % of control	05.05-A Germination and vigor
Relative Seedling Vigor	73.6	average % of control	
			05.08-B Carbon Dioxide
Stability Indicator	4.6	mg CO2-C/g OM/day	Evoultion Rate
		%, dry weight passing through	02.02-B Sample Sieving for
Particle Size	47.9	9.5 mm	Aggregate Size Classification
Dothogone	Pass	PASS/FAIL: Per US EPA Class A	07.01-B Fecal coliforms
Pathogens	Pass	standard, 40 CFR 503.32(a)	07.01-B Fecal conforms
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.02 Samonella
Physical Contaminants	None Detected	%, dry weight basis	03.08-A - Man-Made Inerts Total content
Physical Contaminants	None Detected	%, dry weight basis	03.08-A - Man-Made Inerts Sharps content
H. Marala Contant	D	PASS/FAIL: Per US EPA Class A	04.06-Heavy Metals standard,
Heavy Metals Content	Pass	40 CFR 503.13, tables 1 and 3.	and Hazardous Elements

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org.

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality. or suitability for any particular use.

Laboratory Group: Jan18D Laboratory Number: 8010565-1/1

Analyst: Assaf Sadeh

www.compostlab.com



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 8010565-1/1-6671 Group: Jan18D #8 Reporting Date: February 9, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 23 Jan. 18

Sample Identification: Middles Green 7&8 Sample ID #: 8010565 - 1/1

Nutrients	Dry wt.	As Rcvd.	units	Stability Indicator:		Biologically
Total Nitrogen:	1.5	1.0	%	CO2 Evolution	Respirometery	Available C
Ammonia (NH ₄ -N):	160	110	mg/kg	mg CO ₂ -C/g OM/day	4.6	9.5
Nitrate (NO ₃ -N):	16	11	mg/kg	mg CO ₂ -C/g TS/day	3.9	8.1
Org. Nitrogen (OrgN):	1.5	0.99	%	Stability Rating	moderately unstable	unstable
Phosphorus (as P_2O_5):	0.48	0.31	%			
Phosphorus (P):	2100	1400	mg/kg	Maturity Indicator: Cucu	mber Bioassay	
Potassium (as K ₂ O):	1.3	0.82	%	Compost:Vermiculite(v:v)	1:2	
Potassium (K):	10000	6800	mg/kg	Emergence (%)	93	
Calcium (Ca):	0.88	0.58	%	Seedling Vigor (%)	74	
Magnesium (Mg):	0.30	0.20	%	Description of Plants	fungus	
Sulfate (SO ₄ -S):	940	620	mg/kg			
Boron (Total B):	26	17	mg/kg	Pathogens Results	Units	Rating
Moisture:	0	34.2	%	Fecal Coliform < 7.5	MPN/g	pass
Sodium (Na):	0.38	0.25	%	Salmonella < 3	MPN/4g	pass
Chloride (CI):	0.64	0.42	%	Date Tested: 23 Jan. 18	_	-
pH Value:	NA	3.53	unit			
Bulk Density:	17	27	lb/cu ft	Physical Contaminants	% by weight	
Carbonates (CaCO ₃):	<0.1	<0.1	lb/ton	Hard Plastic	< 0.1	
Conductivity (EC5):	10	NA	mmhos/cm	Film Plastic	< 0.1	
Organic Matter:	85.6	56.3	%	Glass	< 0.1	
Organic Carbon:	43.0	28.0	%	Metal	< 0.1	
Ash:	14.4	9.5	%	Sharps	ND	
C/N Ratio	28	28	ratio	Total	< 0.5	
AgIndex	3	3	ratio	Total	< 0.5	
Metals	Dry wt.	EPA Limit	units	Size Distribution		
Alumnium (Al)	2100	-	mg/kg	MM % by weig	ht	
Arsenic (As):	1.8	41	mg/kg	> 50 0.0		
Cadmium (Cd):	< 1.0	39	mg/kg	25 to 50 0.0		
Chromium (Cr):	5.1	1200	mg/kg	16 to 25 23.0		
Cobalt (Co)	1.3	-	mg/kg	9.5 to 16 29.0		
Copper (Cu):	12	1500	mg/kg	6.3 to 9.5 13.7		
Iron (Fe):	2700	-	mg/kg	4.0 to 6.3 10.9		
Lead (Pb):	2.5	300	mg/kg	2.0 to 4.0 13.1		
Manganese (Mn):	110	- 17	mg/kg	< 2.0 10.3		
Mercury (Hg):	< 1.0 1.1	17 18	mg/kg			
Molybdenum (Mo): Nickel (Ni):	2.6	420	mg/kg mg/kg		Analys	t: Assaf Sadeh
Selenium (Se):	< 1.0	420 36	mg/kg		AllalyS	. Assai Sauell
Zinc (Zn):	60	2800	mg/kg		Assay	Salet
*Sample was received ar				ECC procedures		

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 23 Jan. 18

8010565 - 1/1 - 6671 Sample i.d. Middles Green 7&8 Sample I.d. No. Jan18D No. 8 1/1 8010565 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile			
4.6 mg CO2-C/	++++++++	++++++			
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch	
Biologically Available Carbo	n (BAC)	Optimum Degradation Rate			
9.5 mg CO2-C/	++++++++	++++++++++++++++++++	+++		
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch	

Is Your Compost Mature	<u>?</u>			
AmmoniaN/NitrateN ratio				
10 Ratio	+++++++++++++++	++++++++++++++	++++++++++++++++++++++	.+++++++++++++++++++++++
	VeryMature> <	Mature	> <	< Immature
Ammonia N ppm				
160 mg/kg	+++++++++++++++	++		
dry wt.	VeryMature> <	Mature	> < lm	nmature
Nitrate N ppm	Pass			
16 mg/kg	++++++++++			
dry wt.	< Immature		> < Mature	
pH value				
3.53 units	+++++++++++++++	++++++++		
	< Immature		> < Mature	> < Immature
Cucumber Emergence				
93.3 percent	++++++++++++++	+++++++++++++	+++++++++++++++++++++	+++++++++++++
	< Immature			> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform		
< 1000 MPN/g dry wt.	+++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
, , , , , , , , , , , , , , , , , , ,	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" td=""><td>> < One or more Metals Fail</td></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)	
3.2 Percent	+++++++++++++++++++++++++
dry wt.	<low> < Average > < High Nutrient Content</low>
AgIndex (Nutrients / Sodiur	n and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
3 Ratio	+++++++++++
	Na & Cl > Nutrient and Sodium and Chloride Provider > Nutrient Provider
Plant Available Nitrogen (P.	AN) Estimated release for first season
6 lbs/ton	+++++++++++++++++++++++++++++++++++++++
wet wt.	Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>
C/N Ratio	
28 Ratio	+++++++++++++++++++++++++++++++++++++++
	< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
Soluble Available Nutrients	& Salts (EC5 w/w dw)
10 mmhos/cm	++++++++
dry wt.	SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" td=""></high>
Lime Content (CaCO3)	
0 Lbs/ton	+
dry wt.	< Low > < Medium > < High Lime Content (as CaCO3)

What are the physical properties of your compost?

Percent Ash					
14.4 Percent	+++++++++				
dry wt.	< High Organ	ic Matter	> < Average	> < High Ash Content	
Sieve Size % > 6.3 MM (0.25	5")				
65.8 Percent	+++++++++	++++++++++	++++++++++	++++++++++++++++++++++++++	+++++++++++++
dry wt.	All Uses	> < Size May	Restrict Uses fo	r Potting mix and Golf Courses	

Account No.: Date Received 23 Jan. 18

Middles Green 7&8 8010565 - 1/1 - 6671 Sample i.d. Sample I.d. No. Group: Jan18D No. 8 1/1 8010565

INTERPRETATION:

Is Your Compost Stable? Page two of three

Respiration Rate

mg CO2-C/g OM/day 4.6 Moderate-selected use

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

Moderate-selected use mg CO2-C/g OM/day 10

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio

immature

10

Ammonia N	ppm	
160	mature	
Nitrate N ppi	m	
16	immature	
pH value	•	
3.53	immature	

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the Less than 3 case of biosolids industry to determine adequate pathogen reduction.

Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content 32

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 23 Jan. 18

8010565 - 1/1 - 6671 Sample i.d. Middles Green 7&8
Group: Jan18D No. 8 Sample I.d. No. 1/1 8010565

INTERPRETATION: AgIndex (Nutrients/Na+CI)

Page three of three

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

High salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

0 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

14.4 Low ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

65.8 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Particle Size Distribution

Each size fraction is measured by weight, volume and bulk density. These results are particularly relevent with decisions to screen or not, and if screening, which size screen to use. The bulk density indicates if the fraction screened is made of light weight organic material or heavy mineral material. Removing large mineral material can greatly improve compost quality by increasing nutrient and organic concentrations.

Appendix:	Estimate de la constituta de la constitu	
	Estimated available nutrients for use when	calculating application rates
Plant Available Nitrogen (PAN) calculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		, ,
X value = If BAC < 2 then X = 0.1	Plant Available Nitrogen (PAN)	6.2
If BAC =2.1 to 5 then X = 0.2	Ammonia (NH4-N)	0.22
If BAC =5.1 to 10 then X = 0.3	Nitrate (NO3-N)	0.02
If BAC > 10 then X = 0.4	Available Phosphorus (P2O5*0.64)	4.1
Note: If C/N ratio > 15 additional N should be applied.	Available Potassium (K2O)	16.4



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 8010668-1/1-6671 Group: Jan18D #45 Reporting Date: February 9, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 26 Jan. 18
Sample Identification: Blue 2,4
Sample ID #: 8010668 - 1/1

	% mg/kg mg/kg % % mg/kg
Nitrate (NO ₃ -N): 3.8 2.6 Org. Nitrogen (OrgN): 1.3 0.88	mg/kg % %
Org. Nitrogen (OrgN): 1.3 0.88	% %
	%
Phosphorus (as P_2O_5): 0.41 0.28	
	mg/kg
Phosphorus (P): 1800 1200	
Potassium (as K_2O): 0.91 0.62	%
Potassium (K): 7600 5100	mg/kg
Calcium (Ca): 1.2 0.80	%
Magnesium (Mg): 0.35 0.23	%
Sulfate (SO ₄ -S): 260 170	mg/kg
Boron (Total B): 24 16	mg/kg
Moisture: 0 32.1	%
Sodium (Na): 0.25 0.17	%
Chloride (CI): 0.38 0.26	%
pH Value: NA 6.41	unit
Bulk Density: 29 43	lb/cu ft
Carbonates (CaCO ₃): 5.6 3.8	lb/ton
Conductivity (EC5): 5.5 NA	mmhos/cm
Organic Matter: 33.5 22.7	%
Organic Carbon: 20.0 14.0	%
Ash: 66.5 45.2	%
C/N Ratio 15 15	ratio
AgIndex 4 4	ratio

Stability Indicate	or:		Biologically
CO2 Evolution		Respirometery	Available C
mg CO ₂ -C/g OM/	mg CO ₂ -C/g OM/day		8.5
mg CO ₂ -C/g TS/d	day	2.2	2.8
Stability Ratin	g	moderately unstable	unstable
Maturity Indicate	or: Cucun	nber Bioassay	
Compost:Vermic	ulite(v:v)	1:2	
Emergence (%)		93	
Seedling Vigor (%	6)	104	
Description of	Plants	healthy	
Pathogens	Results	Units	Rating
Fecal Coliform	< 7.5	MPN/g	pass
Salmonella	< 3	MPN/4g	pass
Date Tested: 26 Jar	n. 18		
 Physical Contar	ninants	% by weight	
Hard Plastic		< 0.1	
Film Plastic		< 0.1	
Glass		< 0.1	
Metal		< 0.1	
Sharps		ND	
Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Alumnium (Al)	6800	-	mg/kg
Arsenic (As):	3.1	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	14	1200	mg/kg
Cobalt (Co)	3.0	-	mg/kg
Copper (Cu):	19	1500	mg/kg
Iron (Fe):	9900	-	mg/kg
Lead (Pb):	15	300	mg/kg
Manganese (Mn):	170	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.3	18	mg/kg
Nickel (Ni):	5.4	420	mg/kg
Selenium (Se):	< 1.0	36	mg/kg
Zinc (Zn):	60	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	1.4	
2.0 to 4.0	9.7	
< 2.0	88.8	

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 26 Jan. 18 8010668 - 1/1 - 6671 Sample i.d. Blue 2,4

Jan18D No. 45 Sample I.d. No. 1/1 8010668 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile						
6.5 mg CO2-C/	++++++	+++++++++++++						
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch				
Biologically Available Carbo	on (BAC)	Optimum Degradation Rate						
8.5 mg CO2-C/	+++++++	+++++++++++++++++++++++++++++++++++++++						
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch				

Is Your Compost Mature:	?			
AmmoniaN/NitrateN ratio				
140 Ratio	++++++++++++++	+++++++++++++++++	+++++++++++++++++++	+++++++++++++++++++++
	VeryMature> <	Mature	> <	Immature
Ammonia N ppm				
530 mg/kg	++++++++++++++	++++++++++++++++	+++++++++++++++++++	+++
dry wt.	VeryMature> <	Mature	> < mr	mature
Nitrate N ppm	Pass			
3.8 mg/kg	+++			
dry wt.	< Immature		> < Mature	
pH value				
6.41 units	+++++++++++++	+++++++++++++++++	++++++++++++	
	< Immature		> < Mature	> < Immature
Cucumber Emergence				
93.3 percent	+++++++++++++	+++++++++++++++++	+++++++++++++++++++	
	< Immature			> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform < 1000 MPN/g dry wt.	++++++ < Safe	Na High Facal Coliform
Salmonella	< Sale	> < High Fecal Coliform
Less than 3 /4g dry wt.	+++++	
	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)			
2.7 Percent	+++++++++++++++++++++++++++++++++++++++	+	
dry wt.	<low> < Average</low>	ge > < High Nutrient Content	
AgIndex (Nutrients / Sodiur	m and Chloride Salts)	((N+P2O5+K2O) / (Na + Cl))	
4 Ratio	+++++++++++++++++++		
	Na & Cl > < Nutrient and	d Sodium and Chloride Provider > < Nutrient Provider	
Plant Available Nitrogen (P.	AN) Estimated re	elease for first season	
6 lbs/ton	+++++++++++++++++++	++++	
wet wt.	Low Nitrogen Provider> <	Average Nitrogen Provider > <high nitrogen="" provider<="" th=""><th>ler</th></high>	ler
C/N Ratio			
15 Ratio	+++++++++++++++++++		
		N-Neutral > < N-Demand> < High Nitrogen Demand	
Soluble Available Nutrients	& Salts (EC5 w/w dw)		
5.5 mmhos/cm	+++++++++++++++++++		
dry wt.	SloRelease> < Average N	utrient Release Rate > <high available="" nutrients<="" th=""><th></th></high>	
Lime Content (CaCO3)			
5.6 Lbs/ton	++++++++++++++++++		
dry wt.	< Low > < Medium > < F	ligh Lime Content (as CaCO3)	

What are the physical properties of your compost?

-+++++++++++++++++	++++++++++++++++++	+++++++	
 High Organic Matter 	> < Average	> < High Ash Content	
-			
All Uses > < Size Ma	y Restrict Uses for Potting	mix and Golf Courses	
/	<i>y</i> - <i>y</i>	High Organic Matter > < Average	

Account No.: Date Received 26 Jan. 18 8010668 - 1/1 - 6671 Sample i.d. Blue 2,4

Group: Jan18D No. 45 Sample I.d. No. 1/1 8010668

INTERPRETATION:

Is Your Compost Stable?

Page two of three

Respiration Rate

6.5 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

9 Moderate-selected use mg CO2-C/g OM/day

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio 140 immature

Ammonia N	ppm
530	immature
Nitrate N ppr	n
3.8	immature
pH value	•
6.41	immature
-	•

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

 $Less than 3 \quad 3/4g dry wt. \quad Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.$

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

2.7 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

 Account No.:
 Date Received
 26 Jan. 18

 8010668 - 1/1 - 6671
 Sample i.d.
 Blue 2,4

Group: Jan18D No. 45 Sample I.d. No. 1/1 8010668

INTERPRETATION:

AgIndex (Nutrients/Na+CI)

Page three of three

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

15 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

5.5 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

5.6 Average lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

66.5 High ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Particle Size Distribution

Each size fraction is measured by weight, volume and bulk density. These results are particularly relevent with decisions to screen or not, and if screening, which size screen to use. The bulk density indicates if the fraction screened is made of light weight organic material or heavy mineral material. Removing large mineral material can greatly improve compost quality by increasing nutrient and organic concentrations.

Appendix:	Cating at a dispersion by a superior of a su	
	Estimated available nutrients for use when	calculating application rates
Plant Available Nitrogen (PAN) calculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		,
X value = If BAC < 2 then X = 0.1	Plant Available Nitrogen (PAN)	6.2
If BAC =2.1 to 5 then X = 0.2	Ammonia (NH4-N)	0.72
If BAC =5.1 to 10 then X = 0.3	Nitrate (NO3-N)	0.01
If BAC > 10 then X = 0.4	Available Phosphorus (P2O5*0.64)	3.5
Note: If C/N ratio > 15 additional N should be applied.	Available Potassium (K2O)	12.3



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

> Biologically Available C 14.0 4.7 unstable

> > Rating pass pass

Account #: 8010666-1/1-6671 Group: Jan18D #42 Reporting Date: February 9, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 26 Jan. 18
Sample Identification: Blue 8&9
Sample ID #: 8010666 - 1/1

Nutrients	Dry wt.	As Rcvd.	units	Stability Indicator:		
Total Nitrogen:	1.4	0.99	%	CO2 Evolution		Respirometery
Ammonia (NH ₄ -N):	570	410	mg/kg	mg CO ₂ -C/g OM/day	/	13.0
Nitrate (NO ₃ -N):	3.7	2.7	mg/kg	mg CO ₂ -C/g TS/day		4.4
Org. Nitrogen (OrgN):	1.3	0.94	%	Stability Rating		unstable
Phosphorus (as P ₂ O ₅):	0.46	0.33	%			
Phosphorus (P):	2000	1500	mg/kg	Maturity Indicator:	Cucum	ber Bioassay
Potassium (as K ₂ O):	0.91	0.65	%	Compost:Vermiculite	e(v:v)	1:2
Potassium (K):	7500	5400	mg/kg	Emergence (%)		93
Calcium (Ca):	1.0	0.73	%	Seedling Vigor (%)		95
Magnesium (Mg):	0.32	0.23	%	Description of Pla	ants	fungus
Sulfate (SO ₄ -S):	340	250	mg/kg			
Boron (Total B):	16	11	mg/kg	Pathogens R	esults	Units
Moisture:	0	28.0	%	Fecal Coliform	< 7.5	MPN/g
Sodium (Na):	0.25	0.18	%	Salmonella	< 3	MPN/4g
Chloride (CI):	0.36	0.26	%	Date Tested: 26 Jan. 18	3	
pH Value:	NA	5.51	unit			
Bulk Density:	28	40	lb/cu ft	Physical Contamin	ants	% by weight
Carbonates (CaCO ₃):	1.6	1.2	lb/ton	Hard Plastic		< 0.1
Conductivity (EC5):	5.6	NA	mmhos/cm	Film Plastic		< 0.1
Organic Matter:	34.7	25.0	%	Glass		< 0.1
Organic Carbon:	21.0	15.0	%	Metal		< 0.1
Ash:	65.3	47.0	%	Sharps		ND
C/N Ratio	15	15	ratio	Total		< 0.5
AgIndex	5	5	ratio	lotai		` 0.5
Metals	Dry wt.	EPA Limit	units	Size Distribution		
Alumnium (AI)	8600	-	mg/kg	MM % b	y weight	t

Metals	Dry wt.	EPA Limit	units
Alumnium (Al)	8600	-	mg/kg
Arsenic (As):	2.9	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	11	1200	mg/kg
Cobalt (Co)	2.8	-	mg/kg
Copper (Cu):	16	1500	mg/kg
Iron (Fe):	9600	-	mg/kg
Lead (Pb):	37	300	mg/kg
Manganese (Mn):	130	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.0	18	mg/kg
Nickel (Ni):	5.0	420	mg/kg
Selenium (Se):	< 1.0	36	mg/kg
Zinc (Zn).	55	2800	ma/ka

Size Distribu	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	1.5	
2.0 to 4.0	8.9	
< 2.0	89.6	

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 26 Jan. 18 8010666 - 1/1 - 6671 Sample i.d. Blue 8&9

Sample I.d. No. Jan18D No. 42 1/1 8010666 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate	Biodegradation Rate of Your Pile						
13.0 mg CO2-C/	+++++++++	++++++++++++++++++++	++++++++++++++				
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch			
Biologically Available Carbo	n (BAC)	Optimum Degradation Rate					
14.0 mg CO2-C/	+++++++++	++++++++++++++++++++	++++++++++++++++++	++			
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch			

Is Your Compost Mature	<u>?</u>			
AmmoniaN/NitrateN ratio				
150 Ratio	+++++++++++++++	+++++++++++++++++	++++++++++++++++++	++++++++++++++++++++
	VeryMature> <	Mature	> <	Immature
Ammonia N ppm				
570 mg/kg	++++++++++++++	+++++++++++++++++	++++++++++++++++++	+++++
dry wt.	VeryMature> <	Mature	> <	nature
Nitrate N ppm	Pass			
3.7 mg/kg	++			
dry wt.	< Immature		> < Mature	
pH value				
5.51 units	+++++++++++++++	+++++++++++++++++		
	< Immature		> < Mature	> < Immature
Cucumber Emergence				
93.3 percent	++++++++++++++	+++++++++++++++++	++++++++++++++++++	++++++++++++
	< Immature			> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform		
< 1000 MPN/g dry wt.	++++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
3 ,	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" td=""><td>> < One or more Metals Fail</td></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)		
2.8 Percent	+++++++++++++++++	
dry wt.	<low> < Average</low>	> < High Nutrient Content
AgIndex (Nutrients / Sodiur	n and Chloride Salts) ((N+F	P2O5+K2O) / (Na + Cl))
5 Ratio	++++++++++++++++++	
	Na & Cl > < Nutrient and Sodium and Chloric	de Provider > < Nutrient Provider
Plant Available Nitrogen (P.	AN) Estimated release for first season	
8 lbs/ton	+++++++++++++++++++++++++++++++++++++++	
wet wt.	Low Nitrogen Provider> Average Nitroge	n Provider > <high nitrogen="" provider<="" th=""></high>
C/N Ratio		
15 Ratio	+++++++++++++++++++++++++++++++++++++++	
	< Nitrogen Release > < N-Neutral > < N-Dema	and> < High Nitrogen Demand
Soluble Available Nutrients	& Salts (EC5 w/w dw)	
5.6 mmhos/cm	+++++++++++++++++++++++++++++++++++++++	
dry wt.	SloRelease> < Average Nutrient Release Rate	> <high available="" nutrients<="" th=""></high>
Lime Content (CaCO3)		
1.6 Lbs/ton	+++++	
dry wt.	< Low > < Medium > < High Lime Content (as	s CaCO3)

What are the physical properties of your compost?

Percent Ash			
65.3 Percent	+++++++++++++++++++++++++++++++++++++++	++++++++++++++++++	+++++
dry wt.	< High Organic Matter	> < Average	> < High Ash Content
Sieve Size % > 6.3 MM (0.25	5")		
0.0 Percent	+		
dry wt.	All Uses > < Size May	Restrict Uses for Potting m	ix and Golf Courses
•			

Account No.: Date Received 26 Jan. 18 Blue 8&9 8010666 - 1/1 - 6671 Sample i.d.

Sample I.d. No. 1/1 Group: Jan18D No. 42 8010666

INTERPRETATION:

Is Your Compost Stable? Page two of three

Respiration Rate

mg CO2-C/g OM/day 13.0 High-for mulch

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

High-for mulch mg CO2-C/g OM/day 14

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio

immature

150

Ammonia N	opm
570	immature
Nitrate N ppr	n
3.7	immature
pH value	
5.51	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low _ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the Less than 3 case of biosolids industry to determine adequate pathogen reduction.

Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content 28

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

 Account No.:
 Date Received
 26 Jan. 18

 8010666 - 1/1 - 6671
 Sample i.d.
 Blue 8&9

Group: Jan18D No. 42 Sample I.d. No. 1/1 8010666

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

15 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

5.6 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

1.6 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

65.3 High ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Particle Size Distribution

Each size fraction is measured by weight, volume and bulk density. These results are particularly relevent with decisions to screen or not, and if screening, which size screen to use. The bulk density indicates if the fraction screened is made of light weight organic material or heavy mineral material. Removing large mineral material can greatly improve compost quality by increasing nutrient and organic concentrations.

Appendix:		
	Estimated available nutrients for use when	calculating application rates
Plant Available Nitrogen (PAN) calculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		
X value = If BAC < 2 then X = 0.1	Plant Available Nitrogen (PAN)	8.4
If BAC =2.1 to 5 then X = 0.2	Ammonia (NH4-N)	0.82
If BAC =5.1 to 10 then X = 0.3	Nitrate (NO3-N)	0.01
If BAC > 10 then X = 0.4	Available Phosphorus (P2O5*0.64)	4.4
Note: If C/N ratio > 15 additional N should be applied.	Available Potassium (K2O)	13.0



Date Sampled/Received: 28 Mar. 18 / 29 Mar. 18

City of San Diego Environmental Services

Burton Ewert 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego

CA 92123

Product Identification	Compost
Public	

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	6 <i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	Not reported	Not reported
Moisture Content	%, wet weight basis	28.3	
Organic Matter Content	%, dry weight basis	55.5	
pН	units	5.65	
Soluble Salts (electrical conductivity EC ₅)	dS/m (mmhos/cm)	6.7	
Particle Size or Sieve Size	maxium aggregate size, inches	0.64	
Stability Indicator (respirometry	v)		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day	6.1	Moderately Un-Stable
	mg CO ₂ -C/g TS/day	3.4	Wioderatery On-Stable
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	100.0	
Relative Seedling Vigor	average % of control	95.1	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Desir	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Mar18E	Laboratory Number: 8030914-1/1	
Analyst: Assaf Sadeh	asy Solel	www.compostlab.com	



Date Sampled/Received: 28 Mar. 18 / 29 Mar. 18

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego

CA 92123

Product Identification	Compost
Public	

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	6 <i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	Total N	0.85	1.2
Phosphorus	P_2O_5	0.27	0.39
Potassium	K ₂ O	0.76	1.0
Calcium	Ca	0.87	1.2
Magnesium	Mg	0.21	0.29
Moisture Content	%, wet weight basis	28.3	
Organic Matter Content	%, dry weight basis	55.5	
рН	units	5.65	
Soluble Salts (electrical conductivity EC ₅)	dS/m (mmhos/cm)	6.7	
Particle Size or Sieve Size	% under 9.5 mm, dw basis	99.0	
Stability Indicator (respirometry	y)		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day	6.1	Moderately Un-Stable
	mg CO ₂ -C/g TS/day	3.4	Wioderatery On-Stable
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	100.0	
Relative Seedling Vigor	average % of control	95.1	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Dana	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Mar18E	Laboratory Number:	8030914-1/1
Analyst: Assaf Sadeh	any Solel	www.compostlab.com	



City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego CA 92123

Product Id	dentification:
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Public

Date Sampled/Received: 28 Mar. 18 / 29 Mar. 18

COMPOST TECHNICAL DATA SHEET for Caltrans

LABORATORY: Soil Control Lab, 42 Hangar Way, Watsonville, CA 95076 tel (831) 724-5422 fax (831) 724-3188 www.compostlab.com

Compost Parameters	Test Results	Reported as (units of measure)	TMECC Test	
			Method	
pН	5.65	Unitless	04.11-A 1:5 Slurry pH	
Soluble Salts (electrical conductivity)	6.7	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method Mass Basis	
Moisture content	28.3	%, wet weight basis	03.09-A - Total Solids and Moisture	
Organic Matter Content	55.5	%, dry weight basis	05.07-A Loss-on-Ignition Organic Matter Method (LOI)	
Maturity Indicator (bioassay)				
Percent Emergence	100.0	average % of control	05.05-A Germination and vigor	
Relative Seedling Vigor	95.1	average % of control	· ·	
Stability Indicator	6.1	mg CO2-C/g OM/day	05.08-B Carbon Dioxide Evoultion Rate	
Particle Size	99.0	%, dry weight passing through 9.5 mm	02.02-B Sample Sieving for Aggregate Size Classification	
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.01-B Fecal coliforms	
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.02 Samonella	
Physical Contaminants	None Detected	%, dry weight basis (greater than 4mm)	03.08-A - Man-Made Inerts Total content	
Physical Contaminants	None Detected	%, dry weight basis (greater than 2mm)	03.08-A - Man-Made Inerts Sharps content	
Heavy Metals Content	Pass	PASS/FAIL: Per US EPA Class A 40 CFR 503.13, tables 1 and 3.	04.06-Heavy Metals standard, and Hazardous Elements	

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org.

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality. or suitability for any particular use.

Laboratory Group: Mar18E Laboratory Number: 8030914-1/1
Analyst: Assaf Sadeh

www.compostlab.com



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 8030914-1/1-6671 Group: Mar18E #20 Reporting Date: April 12, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 29 Mar. 18
Sample Identification: Public
Sample ID #: 8030914 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.2	0.85	%
Ammonia (NH₄-N):	670	480	mg/kg
Nitrate (NO ₃ -N):	9.7	7.0	mg/kg
Org. Nitrogen (OrgN):	1.1	0.79	%
Phosphorus (as P_2O_5):	0.38	0.27	%
Phosphorus (P):	1700	1200	mg/kg
Potassium (as K ₂ O):	1.1	0.75	%
Potassium (K):	8700	6300	mg/kg
Calcium (Ca):	1.2	0.87	%
Magnesium (Mg):	0.29	0.21	%
Sulfate (SO ₄ -S):	320	230	mg/kg
Boron (Total B):	23	16	mg/kg
Moisture:	0	28.3	%
Sodium (Na):	0.32	0.23	%
Chloride (CI):	0.46	0.33	%
pH Value:	NA	5.65	unit
Bulk Density :	27	38	lb/cu ft
Carbonates (CaCO ₃):	1.8	1.3	lb/ton
Conductivity (EC5):	6.7	NA	mmhos/cm
Organic Matter:	55.5	39.8	%
Organic Carbon:	29.0	21.0	%
Ash:	44.5	31.9	%
C/N Ratio	24	24	ratio
AgIndex	3	3	ratio
C/N Ratio	24	24	

Stability Indicator:			Biologically
CO2 Evolution		Respirometery	Available C
mg CO ₂ -C/g OM/da	У	6.1	7.0
mg CO ₂ -C/g TS/day	/	3.4	3.9
Stability Rating		moderately unstable	moderately unstable
Maturity Indicator:	Cucum	ber Bioassay	
Compost:Vermiculit	e(v:v)	1:2	
Emergence (%)		100	
Seedling Vigor (%)		95	
Description of Pi	ants	fungus	
Pathogens F	Results	Units	Rating
Fecal Coliform	< 7.5	MPN/g	pass
Salmonella	< 3	MPN/4g	pass
Date Tested: 29 Mar. 1	8		
Physical Contamir	nants**	% by weight	
Hard Plastic		< 0.1	
Film Plastic		< 0.1	
Glass		< 0.1	
Metal		< 0.1	
Sharps		ND	
Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Alumnium (Al)	3400	-	mg/kg
Arsenic (As):	3.3	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	13	1200	mg/kg
Cobalt (Co)	2.1	-	mg/kg
Copper (Cu):	18	1500	mg/kg
Iron (Fe):	6200	-	mg/kg
Lead (Pb):	8.3	300	mg/kg
Manganese (Mn):	140	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.7	18	mg/kg
Nickel (Ni):	5.8	420	mg/kg
Selenium (Se):	< 1.0	36	mg/kg
Zinc (Zn):	87	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	1.0	
6.3 to 9.5	4.1	
4.0 to 6.3	7.2	
2.0 to 4.0	10.2	
< 2.0	77.4	
**Crooter the	on Amm in ciza (Sharne greater than 2n	a ma \

*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 29 Mar. 18 8030914 - 1/1 - 6671 Sample i.d. Public

Mar18E No. 20 Sample I.d. No. 1/1 8030914 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate	Biodegradation Rate of Your Pile						
6.1 mg CO2-C/	+++++++	+++++++++++					
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch			
Biologically Available Carb	on (BAC)	Optimum Degradation Rate					
7.0 mg CO2-C/	+++++++	++++++++++++++					
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch			

Is Your Compost Mature?	•		
AmmoniaN/NitrateN ratio			
69 Ratio	++++++++++++++	+++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	VeryMature> <	Mature	> < Immature
Ammonia N ppm			
670 mg/kg	++++++++++++++	+++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
dry wt.	VeryMature> <	Mature	> < Immature
Nitrate N ppm	Pass		
9.7 mg/kg	++++++		
dry wt.	< Immature		> < Mature
pH value			
5.65 units	++++++++++++++	++++++++++++++++	+++++
	< Immature		> < Mature > < Immature
Cucumber Emergence			
100.0 percent	+++++++++++++	++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	< Immature		> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform		
< 1000 MPN/g dry wt.	++++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
3 ,	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" td=""><td>> < One or more Metals Fail</td></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

+++++++++++++	
<low> < Average > < High Nutrient Content</low>	
and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))	
+++++++++++	
Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider	
N) Estimated release for first season	
+++++++++++++++++	
_ow Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""><td></td></high>	
Salts (EC5 w/w dw)	
SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" td=""><td></td></high>	
< Low > < Medium > < High Lime Content (as CaCO3)	
1 AIN	n and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl)) +++++++++++++++ Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider AN) Estimated release for first season +++++++++++++++++++++++++++++++++++

What are the physical properties of your compost?

	, , ,		•		
Percent Ash					
44.5 Percent	+++++++++	+++++++++	+++++	++++++	
dry wt.	< High Organ	ic Matter	> <	Average	> < High Ash Content
Sieve Size % > 6.3 MM (0.25	")				
5.2 Percent	+++++++++	++++++++++	+++++	+++++++	+++
dry wt.	All Uses	> < Size Ma	y Restri	ct Uses for F	Potting mix and Golf Courses
y	0		,		

Account No.: Date Received 29 Mar. 18 8030914 - 1/1 - 6671 Sample i.d. Public

Group: Mar18E No. 20 Sample I.d. No. 1/1 8030914

INTERPRETATION:

Is Your Compost Stable?

Page two of three

Respiration Rate

6.1 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

7 Moderate-selected use mg CO2-C/g OM/day

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio 69 immature

Ammonia N	ppm
670	immature
Nitrate N ppr	n
9.7	immature
pH value	•
5.65	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

 $Less than 3 \quad 3/4g dry wt. \quad Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.$

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

2.6 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

 Account No.:
 Date Received
 29 Mar. 18

 8030914 - 1/1 - 6671
 Sample i.d.
 Public

Group: Mar18E No. 20 Sample I.d. No. 1/1 8030914

INTERPRETATION:

AgIndex (Nutrients/Na+CI)

Page three of three

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

6.7 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

1.8 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

44.5 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

5.2 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Particle Size Distribution

Each size fraction is measured by weight, volume and bulk density. These results are particularly relevent with decisions to screen or not, and if screening, which size screen to use. The bulk density indicates if the fraction screened is made of light weight organic material or heavy mineral material. Removing large mineral material can greatly improve compost quality by increasing nutrient and organic concentrations.

Appendix:	Cating at a dispersion by a superior of a su	
	Estimated available nutrients for use when	calculating application rates
Plant Available Nitrogen (PAN) calculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		, ,
X value = If BAC < 2 then X = 0.1	Plant Available Nitrogen (PAN)	5.8
If BAC =2.1 to 5 then X = 0.2	Ammonia (NH4-N)	0.96
If BAC =5.1 to 10 then X = 0.3	Nitrate (NO3-N)	0.01
If BAC > 10 then X = 0.4	Available Phosphorus (P2O5*0.64)	3.5
Note: If C/N ratio > 15 additional N should be applied.	Available Potassium (K2O)	15.2



Environmental Services Department

Disposal and Environmental Protection Division

July 18, 2018

Mr. Bill Prinz Program Manager Solid Waste Local Enforcement Agency (LEA) 9601 Ridghaven Court, Suite 220, MS 1102B San Diego, CA 92123

Dear Mr. Prinz:

Reference: Quarterly Report-April through June, 2018

The City of San Diego's Environmental Services Department is submitting this report in compliance with the Self-Monitoring requirements in Compostable Materials Handling Facility Permit number 37-AB-0003 for the Miramar Greenery. The reporting period is for April through June, 2018.

Attachment 1 reports the daily tonnage received by material type and number of vehicles using the site. Attachment 2 summarizes the Log of Special Occurrences, Load Check results and also includes quantities of "contaminants" hauled to the landfill. Attachment 3 summarizes the volume of product leaving the facility per month. Due to operational constraints during this report period no soil tests were submitted for analysis.

If you have any questions or comments regarding this report, please feel free to contact me at (858) 492-6154 or Burton Ewert at (858) 627-3320.

Sincerely.

James Hay

Interim Program Manager

JH/bce

Enclosures: Attachments 1-3

CC;

Mario X. Sierra, Director, Environmental Services Department Hassan Yousef, Assistant Director, Environmental Services Department Alex Garcia, Deputy Director, Environmental Services Department Burton Ewert, Biologist III, Environmental Services Department

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 04/02/2018 To 06/30/2018

This document was last refreshed on July 01, 2018

DATE	CHRISTMAS TREES		FOOD	FOOD WASTE MULTIPLE GREENERY		WOOD WASTE		TOTALS				
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
04/02/2018			6	26.24	3	14.66	185	345.69	15	14.88	209	401.47
04/03/2018			3	4.31	1	1.69	180	331.49	9	7.49	193	344.98
04/04/2018			3	11.79	3	12.16	160	240.07	11	15.67	177	279.69
04/05/2018	1	0.12	7	24.26	2	2.87	159	215.56	7	9.86	176	252.67
04/06/2018			5	19.28	3	12.9	163	299.54	7	10.87	178	342.59
04/07/2018	1	0.69	2	7.18	1	1.67	237	198.26	18	19.26	259	227.06
04/08/2018							173	131.46	5	3.35	178	134.81
04/09/2018	8		5	24.41	4	14.57	175	375.28	5	3.46	189	417.72
04/10/2018			5	17.46	1	2.29	148	274.49	12	14.35	166	308.59
04/11/2018			3	11.2	3	12.13	144	272.96	9	10.14	159	306.43
04/12/2018			8	18.24	1	1.18	153	208.43	11	12.26	173	240.11
04/13/2018			4	11.56	2	9.28	131	227.77	8	22.33	145	270.94
04/14/2018			3	13.27	1	1.11	201	169.83	14	10.61	219	194.82
04/15/2018			1	3.69			174	133.19	11	7.55	186	144.43
04/16/2018			4	13.2	4	16.51	152	309.95	10	19.8	170	359.46
04/17/2018			5	27.43	1	2.32	179	330.44	16	12.24	201	372.43
04/18/2018			1	3.89	3	10.51	163	239.27	8	8.89	175	262.56
04/19/2018			9	36.7	1	0.83	134	193.5	10	10.56	154	241.59
04/20/2018			4	14.96	2	9.71	143	240.4	8	8.49	157	273.56
04/21/2018			2	4.88	1	1.15	205	186.17	16	12.98	224	205.18
04/22/2018							165	128.79	6	4.61	171	133.4
04/23/2018			6	22.11	3	10.45	153	319.4	8	12	170	363.96
04/24/2018			6	21.64	2	11.53	165	297.06	7	4.83	180	335.06
04/25/2018			1	1.73	3	11.54	149	257.3	15	10.31	168	280.88
04/26/2018			6	12.51	1	1.47	149	220.23	11	11.6	167	245.81
04/27/2018			6	28.43	3	15.19	160	270.62	12	21.1	181	335.34
04/28/2018			3	9.15	1	1.57	198	171.52	10	8.18	212	190.42
04/29/2018	1		1	2.26			159	130.46	4	2.76	164	135.48
04/30/2018			5	17.68	4	16.06	157	334.37	10	15.82	176	383.93
TOTAL	2	0.81	114	409.46	54	195.35	4814	7053.5	293	326.25	5277	7985.4

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 04/02/2018 To 06/30/2018

This document was last refreshed on July 01, 2018

1	CHRISTMAS TREES		FOOD WASTE		FOOD WASTE MULTIPLE		GREENERY		WOOD WASTE		TOTALS	
DATE	I I I		T GOD WASTE		IIIOZIII ZZ		OKEENEKT		WOOD WASTE		TOTAL#	
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	OF LOADS	TOTAL TONS
05/01/2018			4		1	1.98	158	311.39	7	8.63		337.92
05/02/2018					2	4.32	107	166.28	6	11.42	115	182.02
05/03/2018			10	45.68	1	0.67	152	219.53	13	16.49	176	282.37
05/04/2018			4	18.05	2	13.55	148	231.92	13	30.5	167	294.02
05/05/2018			1	2.22	1	1.42	188	151.37	8	8.03	198	163.04
05/06/2018	1	0.12					145	107.22	8	4.95	154	112.29
05/07/2018			5	13.82	3	14.37	175	363.78	11	9.41	194	401.38
05/08/2018			7	32.31	1	1.48	166	298.388	6	4.71	180	336.888
05/09/2018			3	8.33	2	7.19	153	236.95	7	5.29	165	257.76
05/10/2018			8	17.26	1	1.44	153	219.76	2	1.7	164	240.16
05/11/2018			5	20.51	3	13.03	137	220.09	5	5.56	150	259.19
05/12/2018			4	14.54	1	1.16	178	143.98	11	13.24	194	172.92
05/13/2018			1	4.38			134	107	2	1.38	137	112.76
05/14/2018			4	13.18	3	11.15	153	306.93	8	4.38	168	335.64
05/15/2018			4	12.09	1	1.61	165	320.47	7	7.44	177	341.61
05/16/2018			2	6.25	2	6.44	161	231.53	14	11.92	179	256.14
05/17/2018			8	32.42	1	1.22	136	214.81	11	8.18	156	256.63
05/18/2018			4	10.72	3	20.1	137	232.89	7	6.28	151	269.99
05/19/2018			3	8.99	1	1.82	214	181.19	15	10.91	233	202.91
05/20/2018			1	6.98			170	137.89	6	3.61	177	148.48
05/21/2018			5	9.77	4	17.89	168	357.84	13	16.02	190	401.52
05/22/2018			6	19.68			149	278.95	8	6.32	163	304.95
05/23/2018			2	2.71	2	5.87	123	186.33	11	13.66	138	208.57
05/24/2018			7	19.82	2	10.3	149	225.5	14	16.19	172	271.81
05/25/2018			5	15.05	3	13.12	154	253.53	8	7.57	170	289.27
05/26/2018			3	9.5	1	1.02	220	174.53	9	6.67	233	191.72
05/27/2018							147	116.29	5	3.45	152	119.74
05/28/2018			3	7.37	3	13.7	82	60.04	7	10.66	95	91.77
05/29/2018			6	16.81	2	3.25	173	362.27	9	6.75	190	389.08
05/30/2018			1	2.17	2	6.11	159	310.71	8	10.59	170	329.58
05/31/2018			9	29.02	1	1.6	144	271.54	7	10.4	161	312.56
TOTAL	1	0.12	125	415.55	49	175.81	4798	7000.9	266	282.31	5239	7874.7

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 04/02/2018 To 06/30/2018

This document was last refreshed on July 01, 2018

	CHRIS	TMAS	This docum		ment was last refreshed on FOOD WASTE		on July 01,	2070			F TO LONG	
DATE	TREES		FOOD WASTE		MULTIPLE		GREENERY		WOOD WASTE		TOTALS	
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
06/01/2018			5	19.42	3	12.25	143	198.18	7	10.12	158	239.97
06/02/2018			3	5.78	1	0.91	257	292.13	13	13.87	274	312.69
06/03/2018			2	4.13			166	118.01	4	2.76	172	124.9
06/04/2018			6	20.13	4	16.75	152	377.47	20	29.39	182	443.74
06/05/2018			5	14.98	1	2.47	127	246.14	13	16.51	146	280.1
06/06/2018			2	10.29	2	5.17	148	220.36	9	5.59	161	241.41
06/07/2018			8	18.83	1	0.57	142	193.17	9	10.26	160	222.83
06/08/2018			4	18.71	1	4.98	159	249.59	10	10.04	174	283.32
06/09/2018			5	17.66	1	4.95	186	160.19	14	11.75	206	194.55
06/10/2018							152	113.5	12	15.3	164	128.8
06/11/2018			5	11.06	1	3	68	234.75	6	9.91	80	258.72
06/12/2018			3	6.5	2	13.85	75	248.77	3	3.73	83	272.85
06/13/2018			1	2.71	3	11.49	139	214.95	8	7.78	151	236.93
06/14/2018			6	19.17	1	0.37	148	165.36	13	15.28	168	200.18
06/15/2018			4	10.09	2	10.43	143	241.59	16	21.97	165	284.08
06/16/2018			2	4	1	2.06	216	169.02	14	8.86	233	183.94
06/17/2018							111	84.93	4	3.35	115	88.28
06/18/2018			5	21.98	4	22.68	164	367.47	10	7.76	183	419.89
06/19/2018			8	33.93	1	2.58	147	291.34	13	11.47	169	339.32
06/20/2018			1	4.74	2	5.84	147	218.98	15	12.58	165	242.14
06/21/2018			7	20.58	1	0.3	140	186.07	10	10.95	158	217.9
06/22/2018			6	23.4	3	13.66	143	203.35	8	9.77	160	250.18
06/23/2018			3	11.88	1	0.97	184	142.71	10	10.1	198	165.66
06/24/2018							146	114	10	6.8	156	120.8
06/25/2018			5	19.75	4	16.51	152	288.8	7	7.01	168	332.07
06/26/2018	7		5	12.9	2	5.035	164	308.41	8	10.22	179	336.565
06/27/2018	+		2	9.91	2	4.44	156	270.68	15	13.61	175	298.64
06/28/2018			8	22.75	1	1.38	137	187.55	9	11.86	155	223.54
06/29/2018			4	15.49	3	16.33	145	246.88	9	7.62	161	286.32
06/30/2018			5	17.63			216	173.97	17	16.39	238	207.99
TOTAL	0	0	120	398.4	48	178.975	4573	6528.32	316	332.61	5057	7438.31
Sum:	3	0.93	359	1223.41	151	550.135	14185	20582.7	875	941.17	15573	23298.4

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

APRIL 2018							
DATE	SPECIAL		O March Committee Committee				
	OCCURRENCES	COMMENTS	Tons of Contaminants Removed				
4/1/2018		Fire in ADC pile. Fire Dept. on site	12				
4/2/2018	NSO		0				
4/3/2018	NSO		0				
4/4/2018	NSO		0				
4/5/2018	NSO		9				
4/6/2018	NSO		0				
4/7/2018	NSO		0				
4/8/2018	NSO		12				
4/9/2018	NSO		0				
4/10/2018	NSO		0				
4/11/2018	NSO		6				
4/12/2018	NSO		0				
4/13/2018	NSO		0				
4/14/2018	NSO		12				
4/15/2018	NSO		0				
4/16/2018	NSO		0				
4/17/2018	NSO		9				
4/18/2018	NSO		0				
4/19/2018	NSO	Light rain in the morning	6				
4/20/2018	NSO		0				
4/21/2018	NSO		0				
4/22/2018	NSO		9				
4/23/2018	NSO		0				
4/24/2018	NSO		0				
4/25/2018	NSO		12				
4/26/2018	NSO		0				
4/27/2018	NSO		0				
4/28/2018	NSO		3				
4/29/2018	NSO	Fire in pile. Extinguished by staff	0				
4/30/2018	NSO	DEA marijuana load	0				
		Monthly Total	90				

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

		APRIL 2018	
	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
5/1/2018	NSO		12
5/2/2018	NSO		0
5/3/2018	NSO		0
5/4/2018	NSO		0
5/5/2018	NSO		6
5/6/2018	NSO		0
5/7/2018	NSO		9
5/8/2018	NSO		0
5/9/2018			6
5/10/2018			0
5/11/2018			0
5/12/2018			3
5/13/2018		Fire in pile. Extinguished by staff	0
5/14/2018		A service of the serv	0
5/15/2018			9
5/16/2018			0
5/17/2018			0
5/18/2018	NSO		12
5/19/2018	NSO		0
5/20/2018			0
5/21/2018			0
5/22/2018		Fire NE Phase 1. Extinguished w/MCAS and SDFD assistance	6
5/23/2018	NSO		0
5/24/2018	NSO		0
5/25/2018	NSO		3
5/26/2018	NSO		0
5/27/2018			0
5/28/2018			12
5/29/2018			0
5/30/2018			3
5/31/2018	NSO		0
CHIEFTE		Monthly Total	81

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

		APRIL 2018	
DATE	SPECIAL	Maria Maria	The of Charles Common Page 1
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
6/1/2018	NSO		9
6/2/2018	NSO		0
6/3/2018	NSO		0
6/4/2018	NSO		12
6/5/2018	NSO		0
6/6/2018	NSO		0
6/7/2018	NSO		0
6/8/2018	NSO		6
6/9/2018	NSO		0
6/10/2018	NSO		0
6/11/2018	NSO		9
6/12/2018	NSO		. 0
6/13/2018	NSO		3
6/14/2018	NSO		0
6/15/2018	NSO		0
6/16/2018	NSO		12
6/17/2018	NSO		0
6/18/2018	NSO		0
6/19/2018	NSO		0
6/20/2018			0
6/21/2018	NSO		. 15
6/22/2018			0
6/23/2018	NSO	Greenery employee assaulted Police arrested customer	by customer. 0
6/24/2018	NSO		0
6/25/2018	NSO		6
6/26/2018			0
6/27/2018			0
6/28/2018			3
6/29/2018			0
6/30/2018			9
		Monthly Total	84

		Incom	incoming ions								06:00	on in Guing			
Month/ Year	Clean Greens	Wood	X-Mas	Food	Drywall/ Animal	Total	Greens Trash	ADC	Miramar Slope Mulch	Other Internal Mulch	Other Internal Chips	Other Internal Compost		Sales (cubic yards)	yards)
			Lees	Waste	Bedding in FY11		tons	yards	yards	yards	yards	yards	ALL Mulch	Compost & Overs	All Woodchips
		2 2 2 2					FY 06	FY 06 Totals							
FY06 Totals	95,691	3,154	1,004		0	99,849	888		12,646	3,620	0	0	3,455	29,245	11,060
							FY07	FY07 Totals							
FY07 Totals	95,772	3,679	785		0	100,235	924		1,140	64,040	0	0	3,762	22,550	13,356
							FY08	FY08 Totals							
FY08 Totals	98,430	4,042	897	1,462	292	105,596	948	7,140	41,784	8,350	0	11,230	11,851	19,955	25,201
							FY09	FY09 Totals		0.00					
FY09 Totals	94,078	4,361	922	2,162	73	101,596	912	2,545	38,178	11,330	0	0	28,993	20,102	22,817
							FY10	FY10 Totals							
FY10 Totals	97,041	3,344	983	1,896	0	103,264	800	800 4,445	25,710	2,000	0	0	29,911	25,328	19,828
							FY11	Totals							
FY11 Totals	91,799	3,121	1,037	2,409	12	98,379	792	32,644	13,754	0	0	0	24,060	19,175	16,878
							FY12	FY12 Totals							
FY12 Totals	88,507	3,419	1,035	3,689	09	96,710	929	52,068	18,304	3,950	0	0	27,015	26,731	17,168
							FY13	FY13 Totals							
FY13 Totals	90,555	3,339	1,085	5,396	127	100,502	881	65,370	16,520	0	0	0	45,676	29,546	17,764
					19		FY14	FY14 Totals							
FY14 Totals	90,198	3,753	1,040	7,481	310	102,782	653	54,840	8,360	0	0	2,106	52,894	30,302	13,369
							FY15	FY15 Totals							
FY15 Totals	87,292	4,368	857	9,388	166	102,071	911	31,940	6,932	0	0	0	56,516	30,667	15,648
							FY16	FY16 Totals							
FY16 Totals	92,590	4,645	1,096	7,605	0	105,935	1,020	,020 15,356	5,021	175	0	0	78,828	24,901	16,103
			L		-		FY17	Totals							
FY1/ lotals	89,727	4,554	986	1,786	0	103,052	858	33,124	3,164	2,044	0	0	68,671	22,823	14,011
11.1.47	0,000	ı		1		2000	FT18	FY18 lotals						-00,	
Jul-17	0210	200		13/		9310	18	1,116	0				060'/	1,885	1,565
Aug-17	1400					3047	0/0	001.					3,602	2,606	0/9'L
Nep-1/	3707					8490	8/	4,144	0				5,943	1397	1,211
Oct-1/	8133					9178	78	0	9264				3683	1737	837
Nov-17	7472					8419	90	0	132				3807	1574	573
Dec-17	6765				0	7759	87	0	0			1340	3730	1164	472
Jan-18	7543	3 283		585		8896	84	704	0				2638	1326	261
Feb-18	6242				0	7159	72	168	2548				2193	1113	1383
Mar-18	6345				0	7208	75	2332	484				2850	1089	519
Apr-18	7054	326		909	0	2862	06	0	880				6229	1789	940
May-18	7001	282	0.1		0	7875	81	0	2076				7575	1710	1386
Jun-18	6528	1/		577	0	7438	84	0	4284				5388	2017	481
1	000 20	0000	-												



Environmental Services Department

Disposal and Environmental Protection Division

October 10, 2018

Mr. Bill Prinz Program Manager Solid Waste Local Enforcement Agency (LEA) 9601 Ridghaven Court, Suite 220, MS 1102B San Diego, CA 92123

Dear Mr. Prinz:

Reference: Quarterly Report-July through September, 2018

The City of San Diego's Environmental Services Department is submitting this report in compliance with the Self-Monitoring requirements in Compostable Materials Handling Facility Permit number 37-AB-0003 for the Miramar Greenery. The reporting period is for July through September, 2018.

Attachment 1 reports the daily tonnage received by material type and number of vehicles using the site. Attachment 2 summarizes the Log of Special Occurrences, Load Check results and also includes quantities of "contaminants" hauled to the landfill. Attachment 3 summarizes the volume of product leaving the facility per month. Attachment 4 details soil testing for pathogenic organisms, metals and contaminants as required by 14 CCR, Chapter 3.1, and Article 7.

If you have any questions or comments regarding this report, please feel free to contact me at (858) 492-6151 or Burton Ewert at (858) 627-3320.

Interim Program Manager

JH/bce

James Hay

Attachments 1-3 Enclosures:

Mario X. Sierra, Director, Environmental Services Department CC:

> Hassan Yousef, Assistant Director, Environmental Services Department Alex Garcia, Deputy Director, Environmental Services Department Burton Ewert, Biologist III, Environmental Services Department

Organics Processing Facility

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Report ID: T1DMND0013756

From 07/01/2018 To 07/31/2018

	CHRIS	TMAS		110	FOOD V		07/31/20	710				
DATE	TRE		FOOD V	VASTE	MULT		GREE	NERY	WOOD	WASTE	TOTA	
DATE	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
07/01/2018			3	14.49			151	108.87	5	3.08	159	126.44
07/02/2018			5	19.11	3	15.56	164	334.488	11	8.55	183	377.708
07/03/2018			7	21.84	2	3.64	153	263.36	11	10.3	173	299.14
07/04/2018					3	9.21	26	19.15	2	1.78	31	30.14
07/05/2018			6	19.055	2	3.67	122	202.03	14	14.47	144	239.225
07/06/2018			4	18.82	2	8.5	129	191.43	10	7.11	145	225.86
07/07/2018			4	18.7	1	1.23	166	223.64	6	3.94	177	247.51
07/08/2018							112	79.6	6	7.81	118	87.41
07/09/2018			6	22.29	2	6.97	132	294.48	9	8.31	149	332.05
07/10/2018			5	13.73	1	1.47	146	250.73	10	8.65	162	274.58
07/11/2018			2	8.03	2	6.98	139	226.37	14	13.55	157	254.93
07/12/2018			6	20.74	1	1.42	150	211.23	11	13.65	168	247.04
07/13/2018			5	21.24	2	16.85	152	252.89	14	17.83	173	308.81
07/14/2018	1	0.41	3	10.54			202	164.99	11	9	217	184.94
07/15/2018			1	2.59			153	110.34	1	0.69	155	113.62
07/16/2018			5	21.63	2	10.36	159	369.04	14	14.99	180	416.02
07/17/2018			6	23.03	1	2.51	157	295.86	14	15.01	178	336.41
07/18/2018			3	12.73	3	16.79	157	247.72	10	13.22	173	290.46
07/19/2018			6	18.13	1	0.84	144	200.175	12	12.19	163	231.335
07/20/2018			5	17.59	3	17.09	154	227.14	12	9.78	174	271.6
07/21/2018			3	11.85	1	0.9	218	187.98	7	10.93	229	211.66
07/22/2018							162	111.2	7	5.13	169	116.33
07/23/2018			6	21.58	4	20.42	159	394.41	10	6.96	179	443.37
07/24/2018			3	9.3	1	3.01	146	277.66	13	19.32	163	309.29
07/25/2018			2	3.6	2	7.19	148	256.57	7	4.8	159	272.16
07/26/2018			7	36.19	1	0.9	133	214.46	11	13.45	152	265
07/27/2018			3	14.59	3	21.58	167	267.69	16	20.72	189	324.58
07/28/2018			2	4.07	1	0.5	206	160.82	12	9.87	221	175.26
07/29/2018							165	121.14	9	5.6	174	126.74
07/30/2018			6	27.95	3	12.29	184	407.15	12	10.85	205	458.24
07/31/2018			5	15.13	1	1.89	165	307.14	8	10.6	179	334.76
SUM	1	0.41	119.00	448.55	48.00	191.77	4721.00	6979.75	309.00	312.14	5198.00	7932.62

Report ID: T1DMND0013756

From 08/01/2018 To 08/31/2018

	CHRIS				om 08/01 FOOD V	VASTE						
DATE	TRE	ES	FOOD V	VASTE	MULT	IPLE	GREE	NERY	WOOD	WASTE	TOTAL #	ALS TOTAL
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	OF LOADS	TONS
08/01/2018			1	6.88	3	11.45	158	269.17	8	10.51	170	298.01
08/02/2018			7	28.69	1	1.22	137	196.55	12	16.29	157	242.75
08/03/2018			3	14.62	3	16.56	156	259.2	10	7.73	172	298.11
08/04/2018			3	10.35	1	1.17	190	148.13	10	9.2	204	168.85
08/05/2018							123	91.81	6	9.18	129	100.99
08/06/2018			4	19.75	3	15.66	164	320.93	15	19.19	186	375.53
08/07/2018			4	14.67	1	2.63	167	317.36	14	15.91	186	350.57
08/08/2018			4	14.83	3	12.11	154	243.76	8	11.74	169	282.44
08/09/2018			5	25.11	1	0.67	145	188.08	16	16.73	167	230.59
08/10/2018			4	17.61	2	9.19	153	238.18	5	3.45	164	268.43
08/11/2018			1	0.81	1	1.46	199	159.33	7	4.84	208	166.44
08/12/2018							148	110.66	6	5.04	154	115.7
08/13/2018			6	30.89	3	13.86	159	353.21	9	9.17	177	407.13
08/14/2018			5	19.28	1	1.65	189	311.42	7	5.13	202	337.48
08/15/2018			3	19.62	3	11.81	176	271.01	9	10.17	191	312.61
08/16/2018	1	0.69	7	18.17	1	1.31	147	239.34	15	20.67	171	280.18
08/17/2018			5	18.65	3	13.19	158	234.38	13	24.59	179	290.81
08/18/2018			5	18.06			203	154.17	6	3.86	214	176.09
08/19/2018							140	101.97	2	1.38	142	103.35
08/20/2018			6	22.33	4	17.51	175	361.48	5	5.17	190	406.49
08/21/2018			4	10.4	1	1.87	154	304.86	11	18.42	170	335.55
08/22/2018			2	10.11	3	13.14	159	275.51	14	19.01	178	317.77
08/23/2018			7	22.15	1	0.78	138	199.3	13	10.35	159	232.58
08/24/2018			4	21.59	3	13.84	169	282.315	15	9.08	191	326.825
08/25/2018			2	7.02	1	1.33	218	175.2	14	9.09	235	192.64
08/26/2018							149	109.01	7	5.1	156	114.11
08/27/2018			5	17.91	4	18.35	163	383.99	7	6.99	179	427.24
08/28/2018			7	28.7	1	2.2	170	292.32	15	14.14	193	337.36
08/29/2018			1	4.49	2	6.02	179	293.34	16	16.25	198	320.1
08/30/2018			7	19.38	1	0.84	169	229.83	9	10.29	186	260.34
08/31/2018			5	23.79	2	8.81	181	309.49	7	6.35	195	348.44
SUM	1	0.69	117	465.86	53.00	198.63	5090.00	7425.31	311.00	335.02	5572.00	8425.51

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Report ID: T1DMND0013756

From 09/01/2018 To 09/30/2018

	CHRIS	TMAS		FIG	FOOD \		09/30/20	J16				
DATE	TRE		FOOD V	WASTE	MULT		GREE	NERY	WOOD	WASTE	тот	
57.12	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
09/01/2018			5	19.26			250	215.17	12	12.51	267	246.94
09/02/2018							190	158.12	6	4.65	196	162.77
09/03/2018			6	19.38	3	28.76	107	81.22			116	129.36
09/04/2018			4	12.2	2	3.95	169	330.86	13	13.65	188	360.66
09/05/2018			2	9.72	3	9.11	178	361.38	14	17.57	197	397.78
09/06/2018			6	12.33	1	0.62	158	258.02	12	21.5	177	292.47
09/07/2018			3	15.28	3	21.08	179	231.35	7	8.3	192	276.01
09/08/2018			2	10.02	1	1.68	242	278.35	6	8.7	251	298.75
09/09/2018							171	130.39	3	2.07	174	132.46
09/10/2018			6	25.94	3	10.88	173	410.43	9	14.72	191	461.97
09/11/2018			4	12.86	1	1.16	169	301.96	3	4.93	177	320.91
09/12/2018			1	4.15	3	23.23	151	236.37	4	4.11	159	267.86
09/13/2018			7	14.8	1	0.58	151	221.51	14	17.89	173	254.78
09/14/2018			4	12.58	2	15.06	158	266.68	11	11.05	175	305.37
09/15/2018			4	25.78	1	1.58	193	165.48	8	7.24	206	200.08
09/16/2018			1	5.44			160	124.02	3	1.8	164	131.26
09/17/2018			5	18.33	4	17.23	155	319.05	9	6.3	173	360.91
09/18/2018			4	14.96	1	6.81	161	314.48	12	10.48	178	346.73
09/19/2018			3	13.73	2	9.56	157	228.73	8	8.32	170	260.34
09/20/2018			7	20.95	2	5.23	155	190.63	5	7.15	169	223.96
09/21/2018			4	16.63	2	5.2	186	260.06	3	3.57	195	285.46
09/22/2018			2	6.54	1	1.94	236	185.04	4	2.76	243	196.28
09/23/2018			1	4.65			165	117.89	2	1.38	168	123.92
09/24/2018			6	29.19	5	25.12	210	394.93	7	9.85	228	459.09
09/25/2018			5	23.06	1	2.19	175	291.13	9	9.02	190	325.4
09/26/2018			1	4.14	3	15.07	175	273.89	5	6.3	184	299.4
09/27/2018			7	29.02	1	0.96	161	216.28	6	9.58	175	255.84
09/28/2018			3	11.06	1	4.46	153	242.45	3	5.51	160	263.48
09/29/2018			5	22.45	1	1.87	207	169.21	5	4.4	218	197.93
09/30/2018							135	94.15	4	2.48	139	96.63
SUM	0	0	108	414.45	48	213.33	5230	7069.23	207	237.79	5593	7934.8
Quarterly Total:	2	1.1	344	1328.86	149	603.73	15041	21474.3	827	884.95	16363	24292.923

		JULY 2018	
DATE	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
7/1/2018	NSO		
7/2/2018	NSO		
7/3/2018	NSO		
7/4/2018		Closed	
7/5/2018	NSO		
7/6/2018	NSO		
7/7/2018	NSO		
7/8/2018	NSO		
7/9/2018	NSO		
7/10/2018	NSO		
7/11/2018	NSO	Odor complaint, investigated by LEA	
7/12/2018	NSO		
7/13/2018			
7/14/2018	NSO		
7/15/2018	NSO		
7/16/2018	NSO		
7/17/2018	NSO		
7/18/2018			
7/19/2018	NSO		
7/20/2018	NSO		
7/21/2018	NSO		
7/22/2018			
7/23/2018	NSO		
7/24/2018	NSO		
7/25/2018	NSO		
7/26/2018	NSO		
7/27/2018	NSO		
7/28/2018		Small fire in upper mulch pile	
7/29/2018			
7/30/2018			
7/31/2018			
		Monthly Total	

		AUGUST 2018	
2	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
8/1/2018	NSO		0
8/2/2018	NSO		6
8/3/2018	NSO		6
8/4/2018	NSO		0
8/5/2018	NSO		0
8/6/2018	NSO		12
8/7/2018	NSO		0
8/8/2018	NSO		3
8/9/2018	NSO		0
8/10/2018	NSO		6
8/11/2018	NSO		0
8/12/2018	NSO		9
8/13/2018	NSO		0
8/14/2018	NSO		6
8/15/2018	NSO		0
8/16/2018	NSO		9
8/17/2018	NSO	Small fire in upper mulch pile	0
8/18/2018	NSO		0
8/19/2018	NSO	Small fire in upper mulch pile	15
8/20/2018	NSO		0
8/21/2018	NSO		6
8/22/2018	NSO		0
8/23/2018	NSO		0
8/24/2018	NSO		3
8/25/2018	NSO		0
8/26/2018	NSO		6
8/27/2018	NSO		0
8/28/2018	NSO		0
8/29/2018	NSO		3
8/30/2018	NSO	Small fire in upper mulch pile	0
8/31/2018	NSO		0
		Monthly Total	90

		SEPTEMBER 2018	
DATE	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
9/1/2018	NSO		
9/2/2018	NSO		1
9/3/2018	NSO		
9/4/2018	NSO		
9/5/2018	NSO		
9/6/2018	NSO	Small fire in upper mulch pile	
9/7/2018	NSO		
9/8/2018	NSO		
9/9/2018	NSO		
9/10/2018	NSO		
9/11/2018	NSO		
9/12/2018	NSO		
9/13/2018	NSO		
9/14/2018	NSO		
9/15/2018	NSO		
9/16/2018	NSO		
9/17/2018	NSO		
9/18/2018	NSO		
9/19/2018	NSO		
9/20/2018	NSO		1
9/21/2018	NSO		
9/22/2018	NSO		
9/23/2018	NSO		
9/24/2018	NSO		
9/25/2018	NSO		
9/26/2018	NSO		
9/27/2018	NSO		
9/28/2018	NSO		
9/29/2018	NSO		
9/30/2018	NSO		
		Monthly Total	9.

		Incom	ning Tons	3							Outgo	ing Yards			
Month/ Year	Clean Greens	Wood	X-Mas	Food	Drywall/ Animal	Total	Greens Trash	ADC	Miramar Slope Mulch	Other Internal Mulch	Other Internal Chips	Other Internal Compost		Sales (cubic	yards)
			Trees	Waste	Bedding in FY11		tons	yards	yards	yards	yards	yards	ALL Mulch	Compost & Overs	All Woodchips
							FY08	Totals							
FY08 Totals	98,430	4,042	897	1,462	766	105,596	948	7,140	41,784	8,350	0	11,230	11,851	19,955	25,201
								Totals							
FY09 Totals	94,078	4,361	922	2,162	73	101,596	912	2,545	38,178	11,330	0	0	28,993	20,102	22,817
								Totals							
FY10 Totals	97,041	3,344	983	1,896	0	103,264	800	4,445	25,710	5,000	0	0	29,911	25,328	19,828
								Totals							
FY11 Totals	91,799	3,121	1,037	2,409	12	98,379	792	32,644	13,754	0	0	0	24,060	19,175	16,878
FV40 Tatala								Totals				_			
FY12 Totals	88,507	3,419	1,035	3,689	60	96,710	676	52,068	18,304	3,950	0	0	27,015	26,731	17,168
FY13 Totals	00.555	0.000	4.005	5.000	407	400 500		Totals	40.500		_		45.070	00.540	47.704
FY13 Totals	90,555	3,339	1,085	5,396	127	100,502	881	65,370	16,520	0	0	0	45,676	29,546	17,764
FY14 Totals	00.400	0.750	4.040	7.404	040	400 700		Totals	0.000	_	_	0.400	50.004	00.000	40.000
F114 TOTALS	90,198	3,753	1,040	7,481	310	102,782	653 EV4E	54,840 Totals	8,360	0	0	2,106	52,894	30,302	13,369
FY15 Totals	87,292	4,368	857	9,388	166	102,071	911	31,940	6,932	0	0	0	56,516	30,667	15,648
F113 Totals	01,292	4,300	637	9,300	100	102,071		Totals	0,932	U	U	U	30,310	30,007	15,040
FY16 Totals	92,590	4,645	1,096	7,605	0	105,935	1,020	15,356	5,021	175	0	0	78,828	24,901	16,103
1 1 10 Totals	92,390	4,043	1,030	7,003	U	103,333		Totals	J,02 I	173	U	U	70,020	24,901	10,103
FY17 Totals	89,727	4,554	986	7,786	0	103,052	858	33,124	3,164	2,044	0	0	68,671	22,823	14,011
TTTT TOTAL	00,12.	1,001	000	1,100		100,002		Totals	0,104	2,011		, ,	00,011	22,020	1-1,011
FY18 Totals	87,369	3,809	677	7,514	0	99,369	982	15,564	19,668	0	0	1,340	55,038	19,407	11,298
				.,		,		Totals	10,000			1,0 10	,	10,101	,
Jul-18	6980	312	0.41	641	0	7933	96	0	8,016	0	0	0	4301	2321	804
Aug-17	7425	335	0.69	665	0		90	0			0	0	4484	2310	1274
Sep-17	7069	238	0	628	0	7935	93	0	15,792	0	0	0	5534	2435	123
Oct-17															
Nov-17	-														·
Dec-17															
Jan-18															
Feb-18															
Mar-18															
Apr-18		-												1	
May-18														1	
Jun-18	24 474	005	4.4	4.024	•	24 204	270	0	20.200	0	0	0	44 240	7.066	2 204
FY19 Totals	21,474	885	1.1	1,934	0	24,294	279	0	29,200	0	0	0	14,319	7,066	2,201

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Date Sampled/Received: 31 Jul. 18 / 01 Aug. 18

City of San Diego Environmental Services

Burton Ewert 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego

CA 92123

Product Identification	Compost
Public Compost	

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	42 Hangar Way; Watsonville, CA 95076	<i>tel:</i> 831.724.5422	fax: 831.724.3188		
Compost Parameters	Reported as (units of measure)	Test Results	Test Results		
Plant Nutrients:	%, weight basis	Not reported	Not reported		
Moisture Content	%, wet weight basis	30.0			
Organic Matter Content	%, dry weight basis	54.0			
pН	units	7.18			
Soluble Salts (electrical conductivity EC 5)	dS/m (mmhos/cm)	4.6			
Particle Size or Sieve Size	maxium aggregate size, inches	1.00			
Stability Indicator (respirometry)		Stability Rating:		
CO ₂ Evolution	mg CO ₂ -C/g OM/day	2.6	Stable		
	mg CO ₂ -C/g TS/day	1.4			
Maturity Indicator (bioassay)					
Percent Emergence	average % of control	100.0			
Relative Seedling Vigor	average % of control	105.1			
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform		
		Pass	Salmonella		
Trace Metals	PASS/FAIL: per US EPA Class A	Deve	As,Cd,Cr,Cu,Pb,Hg		
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn		

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Aug18A	Laboratory Number: 8080008-1/1	
Analyst: Assaf Sadeh	any Sakel	www.compostlab.com	



Date Sampled/Received: 31 Jul. 18 / 01 Aug. 18

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego CA 92123

Product Identification	Compost
Public Compost	

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	6 <i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	Total N	1.1	1.5
Phosphorus	P_2O_5	0.43	0.61
Potassium	K ₂ O	0.82	1.2
Calcium	Ca	1.1	1.6
Magnesium	Mg	0.26	0.37
Moisture Content	%, wet weight basis	30.0	
Organic Matter Content	%, dry weight basis	54.0	
рН	units	7.18	
Soluble Salts (electrical conductivity EC ₅)	dS/m (mmhos/cm)	4.6	
Particle Size or Sieve Size	% under 9.5 mm, dw basis	96.4	
Stability Indicator (respirometry	y)		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day	2.6	Stable
	mg CO ₂ -C/g TS/day	1.4	Stable
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	100.0	
Relative Seedling Vigor	average % of control	105.1	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a) Pass		Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Dece	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Aug18A	Laboratory Number:	8080008-1/1
Analyst: Assaf Sadeh	any Sakel	www.compostlab.com	



City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego CA 92123

Product	Identi	fication:

Public Compost

Date Sampled/Received: 31 Jul. 18 / 01 Aug. 18

COMPOST TECHNICAL DATA SHEET for Caltrans

LABORATORY: Soil Control Lab, 42 Hangar Way, Watsonville, CA 95076 tel (831) 724-5422 fax (831) 724-3188 www.compostlab.com

Compost Parameters	Test Results	Reported as (units of measure)	TMECC Test
			Method
pH	7.18	Unitless	04.11-A 1:5 Slurry pH
Soluble Salts	4.6	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method
(electrical conductivity)	4.0	ds/iii (iiiiiiios/ciii)	Mass Basis
Moisture content	30.0	%, wet weight basis	03.09-A - Total Solids and Moisture
Organic Matter Content	54.0	%, dry weight basis	05.07-A Loss-on-Ignition
Organic Watter Content			Organic Matter Method (LOI)
Maturity Indicator (bioassay)			
Percent Emergence	100.0	average % of control	05.05-A Germination and vigor
Relative Seedling Vigor	105.1	average % of control	
			05.08-B Carbon Dioxide
Stability Indicator	2.6	mg CO2-C/g OM/day	Evoultion Rate
		%, dry weight passing through	02.02-B Sample Sieving for
Particle Size	96.4	9.5 mm	Aggregate Size Classification
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.01-B Fecal coliforms
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.02 Samonella
Physical Contaminants	None Detected	%, dry weight basis (greater than 4mm)	03.08-A - Man-Made Inerts Total content
Physical Contaminants	None Detected	%, dry weight basis (greater than 2mm)	03.08-A - Man-Made Inerts Sharps content
Usasan Matala Cantant	D	PASS/FAIL: Per US EPA Class A	04.06-Heavy Metals standard,
Heavy Metals Content	Pass	40 CFR 503.13, tables 1 and 3.	and Hazardous Elements

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org.

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality. or suitability for any particular use.

Laboratory Group:	Aug18A	Laboratory Number:	8080008-1/1
Analyst: Assaf Sadeh	(1sse Sabel	www.compostlab.com	
	000	www.compostiao.com	

ANALYTICAL CHEMISTS
and
BACTERIOLOGISTS
Approved by State of California

SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 8080008-1/1-6671 Group: Aug18A #21 Reporting Date: August 20, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 01 Aug. 18
Sample Identification: Public Compost
Sample ID #: 8080008 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.5	1.1	%
Ammonia (NH ₄ -N):	390	270	mg/kg
Nitrate (NO ₃ -N):	11	7.5	mg/kg
Org. Nitrogen (OrgN):	1.5	1.0	%
Phosphorus (as P_2O_5):	0.61	0.43	%
Phosphorus (P):	2700	1900	mg/kg
Potassium (as K ₂ O):	1.2	0.82	%
Potassium (K):	9700	6800	mg/kg
Calcium (Ca):	1.6	1.1	%
Magnesium (Mg):	0.37	0.26	%
Sulfate (SO ₄ -S):	270	190	mg/kg
Boron (Total B):	30	21	mg/kg
Moisture:	0	30.0	%
Sodium (Na):	0.32	0.23	%
Chloride (CI):	0.49	0.34	%
pH Value:	NA	7.18	unit
Bulk Density :	26	37	lb/cu ft
Carbonates (CaCO ₃):	2.2	1.5	lb/ton
Conductivity (EC5):	4.6	NA	mmhos/cm
Organic Matter:	54.0	37.8	%
Organic Carbon:	27.0	19.0	%
Ash:	46.0	32.2	%
C/N Ratio	18	18	ratio
AgIndex	4	4	ratio

Stability Indicate	or:		Biologically
CO2 Evolution		Respirometery	Available C
mg CO ₂ -C/g OM/	/day	2.6	3.1
mg CO ₂ -C/g TS/d	day	1.4	1.7
Stability Ratin	g	stable	stable
Maturity Indicat	or: Cucum	ber Bioassay	
Compost:Vermic	ulite (v:v)	1:2	
Emergence (%)		100	
Seedling Vigor (%	6)	105	
Description of	Plants	healthy	
Pathogens		Units	Rating
Fecal Coliform		MPN/g	pass
Salmonella	< 3	MPN/4g	pass
Date Tested: 01 Au	g. 18		
Physical Contar	ninants**	% by weight	
Hard Plastic		< 0.1	
Film Plastic		< 0.1	
Glass		< 0.1	
Metal		< 0.1	
Sharps		ND	
Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Alumnium (Al)	5900	-	mg/kg
Arsenic (As):	3.3	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	13	-	mg/kg
Cobalt (Co)	3.1	-	mg/kg
Copper (Cu):	32	1500	mg/kg
Iron (Fe):	8500	-	mg/kg
Lead (Pb):	13	300	mg/kg
Manganese (Mn):	200	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.8	75	mg/kg
Nickel (Ni):	5.6	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	100	2800	mg/kg

ion	
% by weight	
0.0	
0.0	
1.8	
1.8	
4.9	
7.3	
9.9	
74.3	
	0.0 0.0 1.8 1.8 4.9 7.3 9.9

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 01 Aug. 18 8080008 - 1/1 - 6671 Sample i.d. Public Compost

Aug18A No. 21 Sample I.d. No. 1/1 8080008 Group:

INTERPRETATION:

Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your F	rile	
2.6 mg CO2-C/	++++++++			
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch
Biologically Available Carbo	n (BAC)	Optimum Degradation Rate		
3.1 mg CO2-C/	++++++++	++		
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch

Is Your Compost Mature?	<u> </u>		
AmmoniaN/NitrateN ratio			
35 Ratio	++++++++++++++	++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	VeryMature> <	Mature	> < Immature
Ammonia N ppm			
390 mg/kg	++++++++++++++	++++++++++++++++++	++++++
dry wt.	VeryMature> <	Mature	> < Immature
Nitrate N ppm	Pass		
11 mg/kg	++++++		
dry wt.	< Immature		> < Mature
pH value			
7.18 units	++++++++++++++	++++++++++++++++++	+++++++++++++++
	< Immature		> < Mature > < Immature
Cucumber Emergence			
100.0 percent	+++++++++++++	+++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	< Immature		> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform		
< 1000 MPN/g dry wt.	+++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
5 ,	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" td=""><td>> < One or more Metals Fail</td></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)										
3.3 Percent	+++++++++++++++++++++++++									
dry wt.	<low> < Average > < High Nutrient Content</low>									
AgIndex (Nutrients / Sodium	and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))									
4 Ratio	++++++++++++++++++++									
	Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider									
Plant Available Nitrogen (Pa	N) Estimated release for first season									
5 lbs/ton	++++++++++++++++									
wet wt.	_ow Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" th=""></high>									
C/N Ratio										
18 Ratio	+++++++++++++++++++++++++++++++++++++++									
	Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand									
Soluble Available Nutrients	Salts (EC5 w/w dw)									
4.6 mmhos/cm	++++++++++++++++++++++++++++									
dry wt.	SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" th=""></high>									
Lime Content (CaCO3)										
2.2 Lbs/ton	++++++									
dry wt.	< Low > < Medium > < High Lime Content (as CaCO3)									

wnat are the physical pro	operties of your compost?
Percent Ash	
46.0 Percent	++++++
dry wt.	< High Organic Matter > < Average > < High Ash Content
Sieve Size % > 6.3 MM (0.25	5")
8.5 Percent	+++++++++++++++++++++++++++++++++++++++
dry wt.	All Uses > < Size May Restrict Uses for Potting mix and Golf Courses

Account No.: Date Received 01 Aug. 18 8080008 - 1/1 - 6671 Sample i.d. **Public Compost**

Sample I.d. No. 808008 Group: Aug18A No. 21 1/1

INTERPRETATION:

Is Your Compost Stable?

Page two of three

Respiration Rate

mg CO2-C/g OM/day 2.6 Low: Good for all uses

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

Low: Good for all uses mg CO2-C/g OM/day

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio

35	immature	
Ammonia N	ppm	
390	mature	
Nitrate N ppi	m	
11	immature	
pH value		
7.18	mature	

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the Less than 3 case of biosolids industry to determine adequate pathogen reduction.

Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content 33

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 01 Aug. 18 8080008 - 1/1 - 6671 Sample i.d. Public Compost

Group: Aug18A No. 21 Sample I.d. No. 1/1 8080008

INTERPRETATION:

AgIndex (Nutrients/Na+CI)

Page three of three

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

5 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied. **C/N Ratio**

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

4.6 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

2.2 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

46.0 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

8.5 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
		Estimated available nutrients for use who	en calculating application rates
Plant Available Nitrogen (F	PAN) calculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) +			,
X value = If BAC < 2	then X = 0.1	Plant Available Nitrogen (PAN)	4.8
If BAC =2.	1 to 5 then X = 0.2	Ammonia (NH4-N)	0.54
If BAC =5.	1 to 10 then X = 0.3	Nitrate (NO3-N)	0.02
If BAC > 1	0 then X = 0.4	Available Phosphorus (P2O5*0.64)	5.5
Note: If C/N ratio > 15 add	itional N should be applied.	Available Potassium (K2O)	16.4

January 16, 2019

Mr. Bill Prinz Program Manager Solid Waste Local Enforcement Agency (LEA) 9601 Ridghaven Court, Suite 220, MS 1102B San Diego, CA 92123

Dear Mr. Prinz:

Reference: Quarterly Report-October through December, 2018

The City of San Diego's Environmental Services Department is submitting this report in compliance with the Self-Monitoring requirements in Compostable Materials Handling Facility Permit number 37-AB-0003 for the Miramar Greenery. The reporting period is for October through December 2018.

Attachment 1 reports the daily tonnage received by material type and number of vehicles using the site. Attachment 2 summarizes the Log of Special Occurrences, Load Check results and also includes quantities of "contaminants" hauled to the landfill. Attachment 3 summarizes the volume of product leaving the facility per month. Attachment 4 details soil testing for pathogenic organisms, metals and contaminants as required by 14 CCR, Chapter 3.1, and Article 7.

If you have any questions or comments regarding this report, please feel free to contact me at (858) 492-6151 or Burton Ewert at (858) 627-3320.

Sincerely,

James Hay Senior Mechanical Engineer

JH/bce

Enclosures: Attachments 1-4

cc: Mario X. Sierra, Director, Environmental Services Department Hassan Yousef, Assistant Director, Environmental Services Department Renee Robertson, Deputy Director, Environmental Services Department Burton Ewert, Biologist III, Environmental Services Department

Report ID : T1DMND0013756 From 10/01/2018 To 12/31/2018

			FOOD	WASTE	m 10/01/2				CHRIS			
DATE	FOOD \	NASTE	MULT	IPLE	GREE	NERY	WOOD	WASTE	TRE	EES	TOT/ OF	TOTAL
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS
10/01/2018	4	13.65	5	27.74	157	315.75	6	6.57			172	363.71
10/02/2018	4	12.55	1	1.59	153	297.19	7	9.94			165	321.27
10/03/2018	4	22.93	3	13.44	169	250.13	8	10.5			184	297
10/04/2018	7	31.1	1	0.94	162	210.59	14	17.53			184	260.16
10/05/2018	4	17.01	3	11.49	195	302.71	7	9.67			209	340.88
10/06/2018	2	6.57	1	1.4	266	217.44	11	9.15			280	234.56
10/08/2018	6	26.33	3	13.9	257	460.08	13	21.1			279	521.41
10/09/2018	6	28.43	1	1.69	178	326.19	17	26			202	382.31
10/10/2018	1	4.54	2	9.9	182	246.57	12	27.23			197	288.24
10/11/2018	7	14.52	1	0.67	178	239.17	9	9.11			195	263.47
10/12/2018	5	19.49	2	13.06	75	205.19	6	6.99			88	244.73
10/13/2018	3	13.58			160	139.4	5	3.45			168	156.43
10/15/2018	5	24.05	3	17.49	233	388.18	11	11.55			252	441.27
10/16/2018	4	12.46	1	7.34	203	356.75	7	11.07			215	387.62
10/17/2018	2	10.3	2	4.98	169	276.95	5	4.43			178	296.66
10/18/2018	8	20.05	1	1.27	174	211.63	13	11.86			196	244.81
10/19/2018	3	13.9	2	9.4	185	279.06	12	15.13			202	317.49
10/20/2018	3	13.9	2	4.4	244	190.8	8	5.41			257	214.51
10/22/2018	5	22.17	2	7.83	222	382.75	9	12.56			238	425.31
10/23/2018	4	14.75	2	7.01	181	296.73	6	7.29			193	325.78
10/24/2018	4	11.48	3	12.56	173	259.03	6	6.4			186	289.47
10/25/2018	7	17.44	1	0.74	167	209.65	13	17.26			188	245.09
10/26/2018	3	9.13	1	4.37	179	294.63	7	10.21			190	318.34
10/27/2018	3	14.87	1	4.36	233	197.85	10	17.12			247	234.2
10/29/2018	4	14.38	2	9.04	220	349.44	6	7.69			232	380.55
10/30/2018	5	17.53	3	10.96	178	318.53	9	8.58			195	355.6
10/31/2018	1	4.75	2	8.61	178	251.95	3	5.03			184	270.34
Monthly Total	114	431.86	51	206.18	5071	7474.34	240	308.83	0	0	5476	8421.21

Report ID: T1DMND0013756

From 10/01/2018 To 12/31/2018

DATE	FOOD V	VASTE	FOOD \	NASTE	GREE		WOOD WASTE		CHRISTMAS TREES		TOTALS	
DATE	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF	TOTAL TONS
11/01/2018	8	25.14	1	0.43	155	192.59	16	18.44			180	236.6
11/02/2018	5	20.8	3	12.61	154	251.39	10	8.14			172	292.94
11/03/2018	2	5.46	2	3.79	262	211.03	9	5.21			275	225.49
11/05/2018	4	16.2	3	16.4	213	429.8	11	14.4			231	476.8
11/06/2018	4	11.71	1	2.13	205	318.23	1	0.25			211	332.32
11/07/2018	3	10.77	3	12.33	167	257.23	12	12.57			185	292.9
11/08/2018	8	30.45	1	0.59	176	223.23	6	11.61			191	265.88
11/09/2018	3	9.7	2	8.23	165	272.33	6	6.3			176	296.56
11/10/2018	2	5.6	2	5.18	251	199.44	9	5.93			264	216.15
11/12/2018	4	18.94	3	13.94	181	326.06	6	4.31			194	363.25
11/13/2018	5	26.78	2	5.51	185	283.48	4	3.14			196	318.91
11/14/2018	2	11.26	3	11.44	153	215.94	11	10.1			169	248.74
11/15/2018	6	14.63	1	1.1	152	221.96	12	21.85	1	0.61	172	260.15
11/16/2018	4	21.66	1	2.59	183	250.46	8	7.65			196	282.36
11/17/2018	3	12.24	1	1.35	281	230.13	10	7.4			295	251.12
11/19/2018	2	9.84	3	13.5	186	347	9	9.5			200	379.84
11/20/2018	8	33.2	1	1.8	216	352.05	9	10.41			234	397.46
11/21/2018	3	11.35	2	13.53	145	213.9	6	9.87			156	248.65
11/23/2018	10	33.17	1	5.55	132	141.29	5	3.45			148	183.46
11/24/2018	2	4.83	1	5.53	199	230.99	3	1.79			205	243.14
11/26/2018	4	16.31	3	9.35	203	300.99	10	8.88			220	335.53
11/27/2018	5	15.29	1	2.01	185	322.03	9	7.62			200	346.95
11/28/2018	2	9.85	2	7.32	184	258.07	17	26.07			205	301.31
11/29/2018	8	20.17	1	0.96	42	89.98	4	5.96			55	117.07
11/30/2018	3	8.01	2	8.5	84	188.39	7	5.62			96	210.52
Monthly Total	110	403.36	46	165.67	4459	6327.99	210	226.47	1	0.61	4826	7124.1

Report ID : T1DMND0013756

From 10/01/2018 To 12/31/2018

	FOOD \	WASTE	FOOD WASTE MULTIPLE		GREE		WOOD WASTE		CHRISTMAS TREES		TOTALS	
DATE											TOTAL #	TOTAL
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	OF	TONS
12/01/2018	2	5.31	1		173	133.08	12	8.88			188	149.13
12/03/2018	6	27.24	3		164	375.45	3	2.05			176	416.55
12/04/2018	4	22.29	1		185	315.73	7	8.02	1	2	198	350.33
12/05/2018	3	9.29	3	10.21	105	183.95	13	14.91			124	218.36
12/06/2018	4	9.4	1	0.67	39	81.85	7	7.81			51	99.73
12/07/2018	5	14.48	3	9.63	114	198.48	3	4.62			125	227.21
12/08/2018	3	11.45	1	1.89	152	128.63	17	51.09	2	5.08	175	198.14
12/10/2018	4	14.69	2	9.09	200	395.5	11	24.15			217	443.43
12/11/2018	2	6.13	1	2.41	195	400.26	7	10.78			205	419.58
12/12/2018	2	12.21	3	10.31	157	353.77	5	15.58	1	2.09	168	393.96
12/13/2018	9	35.59	1	2.21	170	273.63	11	15.28	1	2.02	192	328.73
12/14/2018	2	5.41	1	4.69	159	262.06	8	9.95			170	282.11
12/15/2018	2	5.43	2	5.19	248	207.73	12	14.74			264	233.09
12/17/2018	4	17.76	5	19.33	169	341.581	8	12.05			186	390.7205
12/18/2018	6	23.22	2	1.97	155	256.21	7	16.2			170	297.6
12/19/2018	2	11.75	2	8.11	149	224.015	10	12.08	1	1.87	164	257.825
12/20/2018	7	15.4	1	0.68	142	200.14	5	8.09			155	224.31
12/21/2018	5	10.97	2	9.01	142	237.67	10	7.72			159	265.37
12/22/2018	1	3.5	1	1.94	154	124.27	13	14.52	1	1	170	145.23
12/24/2018	5	13.68	3	12.21	101	199.5	2	1.38	2	4.6	113	231.37
12/26/2018	2	10.72	1	7.2	86	156	9	8.19	15	28.01	113	210.12
12/27/2018	5	8.11	3	8.08	123	186.32	11	9.97	18	36.32	160	248.8
12/28/2018	4	8.86	1	4.04	121	174.7	4	2.63	15	25.93	145	216.16
12/29/2018	1	1.08	2	5.47	157	187.42	7	4.85	22	29.2	189	228.02
12/31/2018	6	31.39	2	7.7	141	233.48	8	8.84	15	17.69	172	299.1
Monthly Sum	96	335.36	48	158	3701	5831.43	210	294.38	94	155.81	4149	6774.976
Sum:	320	1170.58	145	529.85	13231	19633.8	660	829.68	95	156.42	14451	22320.29

		JULY 2018	
DATE	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
10/1/2018	NSO		8
10/2/2018	NSO		0
10/3/2018	NSO		0
10/4/2018	NSO		10
10/5/2018	NSO		0
10/6/2018	NSO		6
10/7/2018	NSO		0
10/8/2018	NSO		9
10/9/2018	NSO		0
10/10/2018	NSO		0
10/11/2018	NSO		15
10/12/2018	NSO		0
10/13/2018	NSO	Rain	6
10/14/2018	NSO	Muddy	0
10/15/2018	NSO		9
10/16/2018	NSO		0
10/17/2018	NSO		6
10/18/2018	NSO		0
10/19/2018	NSO		0
10/20/2018	NSO		8
10/21/2018	NSO		0
10/22/2018	NSO		0
10/23/2018	NSO		12
10/24/2018	NSO		0
10/25/2018	NSO		0
10/26/2018	NSO		6
10/27/2018	NSO		0
10/28/2018	NSO		0
10/29/2018	NSO		3
10/30/2018	NSO		0
10/31/2018	NSO		0
		Monthly Total	98

		AUGUST 2018	
DATE	SPECIAL		
DAIL	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
11/1/2018	NSO		6
11/2/2018	NSO		0
11/3/2018	NSO		0
11/4/2018	NSO		6
11/5/2018	NSO		0
11/6/2018	NSO		0
11/7/2018	NSO		15
11/8/2018	NSO		0
11/9/2018	NSO		6
11/10/2018	NSO		0
11/11/2018	NSO		0
11/12/2018	NSO		5
11/13/2018	NSO		0
11/14/2018	NSO		0
11/15/2018	NSO		8
11/16/2018	NSO		0
11/17/2018	NSO		6
11/18/2018	NSO		0
11/19/2018	NSO		11
11/20/2018	NSO		0
11/21/2018	NSO		9
11/22/2018		Closed (Rain)	0
11/23/2018	NSO	Muddy	6
11/24/2018	NSO	Muddy	0
11/25/2018	NSO	Muddy	0
11/26/2018	NSO		9
11/27/2018	NSO		0
11/28/2018	NSO		3
11/29/2018	NSO	Rain	0
11/30/2018	NSO	Muddy	0
		Monthly Total	90

		SEPTEMBER 2018	
2.5	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
12/1/2018	NSO	Muddy	10
12/2/2018	NSO		0
12/3/2018	NSO		9
12/4/2018	NSO		0
12/5/2018	NSO	Rain	0
12/6/2018	NSO	Rain	6
12/7/2018	NSO	Muddy	0
12/8/2018	NSO	Muddy	0
12/9/2018	NSO	Muddy	3
12/10/2018	NSO	Muddy	0
12/11/2018	NSO	Muddy	0
12/12/2018	NSO	Muddy	6
12/13/2018	NSO		0
12/14/2018	NSO		6
12/15/2018	NSO		0
12/16/2018	NSO		0
12/17/2018	NSO		8
12/18/2018	NSO		0
12/19/2018	NSO		3
12/20/2018	NSO		0
12/21/2018	NSO		12
12/22/2018	NSO		0
12/23/2018	NSO		6
12/24/2018	NSO		0
12/25/2018		Closed (Rain)	0
12/26/2018	NSO	Muddy	10
12/27/2018	NSO		0
12/28/2018	NSO		6
12/29/2018	NSO		0
12/30/2018	NSO		6
12/31/2018	NSO		0
		Monthly Total	91

		Incon	ning Tons	3							Outgo	ing Yards			
Month/ Year	Clean Greens	Wood	X-Mas	Food	Drywall/ Animal	Total	Greens Trash	ADC	Miramar Slope Mulch	Other Internal Mulch	Other Internal Chips	Other Internal Compost		Sales (cubic	: yards)
			Trees	Waste	Bedding in FY11		tons	yards	yards	yards	yards	yards	ALL Mulch	Compost & Overs	All Woodchips
							FY08	Totals							
FY08 Totals	98,430	4,042	897	1,462	766	105,596	948	7,140	41,784	8,350	0	11,230	11,851	19,955	25,201
								Totals							
FY09 Totals	94,078	4,361	922	2,162	73	101,596	912	2,545	38,178	11,330	0	0	28,993	20,102	22,817
								Totals							
FY10 Totals	97,041	3,344	983	1,896	0	103,264	800	4,445	25,710	5,000	0	0	29,911	25,328	19,828
								Totals		_					
FY11 Totals	91,799	3,121	1,037	2,409	12	98,379	792	32,644	13,754	0	0	0	24,060	19,175	16,878
FV40 Totala								Totals							
FY12 Totals	88,507	3,419	1,035	3,689	60	96,710	676	52,068	18,304	3,950	0	0	27,015	26,731	17,168
FY13 Totals	90,555	3,339	1.085	5,396	127	100,502	881	Totals 65,370	16,520	0	0	0	45,676	29,546	47.704
F113 TOTALS	90,555	3,339	1,000	5,396	127	100,502		Totals	10,520	U	U	U	45,676	29,346	17,764
FY14 Totals	90,198	3,753	1,040	7,481	310	102,782	653	54,840	8,360	0	0	2,106	52,894	30,302	13,369
F114 10tais	90,196	3,753	1,040	7,401	310	102,762		Totals	0,300	U	U	2,100	32,094	30,302	13,309
FY15 Totals	87,292	4,368	857	9,388	166	102,071	911	31,940	6,932	0	0	0	56,516	30,667	15,648
1 1 13 Totals	01,232	4,300	037	3,300	100	102,071		Totals	0,932	U	U	U	30,310	30,007	13,040
FY16 Totals	92,590	4,645	1,096	7,605	0	105,935	1,020	15,356	5,021	175	0	0	78,828	24,901	16,103
1 1 10 Totals	32,330	7,043	1,030	7,005		100,900		Totals	3,021	173	U		10,020	24,301	10,103
FY17 Totals	89,727	4,554	986	7,786	0	103,052	858	33,124	3,164	2,044	0	0	68,671	22,823	14,011
	55,. 2.	.,		.,	,	,		Totals	0,.0.	_,•			00,011		,
FY18 Totals	87,369	3,809	677	7,514	0	99,369	982	15,564	19,668	0	0	1,340	55,038	19,407	11,298
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-	,-	-	,	FY18	Totals	-,			7	,	-, -	,
Jul-18	6980	312	0.41	641	0	7933	96	0	8,016	0	0	0	4301	2321	804
Aug-17	7425	335	0.69	665	0	8426	90	0	5,392	0	0	0	4484	2310	1274
Sep-17	7069		0	628	0	7935	93	0	,	0	-		5534	2435	123
Oct-17	7474		0	638	0	8421	98	1008	504				5068	1592	314
Nov-17	6328		0.61	569	0	7125	90	352	0				3988	485	283
Dec-17	5832	294	156	493	0	6775	91	0	560	0	0	0	2562	770	347
Jan-18															
Feb-18															
Mar-18		ļ													
Apr-18		 												1	
May-18 Jun-18		-												1	
	41 100	171F	157 74	3,634	0	16 61F	558	0	20.264	0	0	40000	25.027	0.012	3,145
FY19 Totals	41,108	1715	157.71	ა,ია4	U	46,615	ეეგ	0	30,264	0	0	40000	25,937	9,913	3,145

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SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 8110194-1/1-6671 Group: Nov18B #16 Reporting Date: November 20, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 07 Nov. 18
Sample Identification: Green 2,3,5
Sample ID #: 8110194 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.9	1.6	%
Ammonia (NH₄-N):	550	460	mg/kg
Nitrate (NO ₃ -N):	18	15	mg/kg
Org. Nitrogen (OrgN):	1.8	1.5	%
Phosphorus (as P_2O_5):	0.51	0.42	%
Phosphorus (P):	2200	1900	mg/kg
Potassium (as K ₂ O):	0.89	0.74	%
Potassium (K):	7400	6100	mg/kg
Calcium (Ca):	1.5	1.2	%
Magnesium (Mg):	0.26	0.22	%
Sulfate (SO ₄ -S):	460	380	mg/kg
Boron (Total B):	23	20	mg/kg
Moisture:	0	16.8	%
Sodium (Na):	0.31	0.25	%
Chloride (CI):	0.45	0.37	%
pH Value:	NA	4.63	unit
Bulk Density :	23	28	lb/cu ft
Carbonates (CaCO ₃):	15	12	lb/ton
Conductivity (EC5):	6.6	NA	mmhos/cm
Organic Matter:	62.9	52.3	%
Organic Carbon:	34.0	28.0	%
Ash:	37.1	30.9	%
C/N Ratio	18	18	ratio
AgIndex	4	4	ratio
Motolo	Drywt	EDA Limit	unito

Stability Indicate	or:		Biologically
CO2 Evolution		Respirometery	Available C
mg CO ₂ -C/g OM/	day	11.0	12.0
mg CO ₂ -C/g TS/d	lay	6.8	7.4
Stability Ratin	g	unstable	unstable
Maturity Indicate	or: Cucum	ber Bioassay	
Compost:Vermica	ulite (v:v)	1:2	
Emergence (%)		93	
Seedling Vigor (%	6)	76	
Description of	Plants	fungus	
Pathogens	Results	Units	Rating
Fecal Coliform	< 7.5	MPN/g	pass
Salmonella	< 3	MPN/4g	pass
Date Tested: 07 Nov	ı. 18		
Physical Contan	ninants**	% by weight	
Total Plastic		< 0.1	
Film Plastic		< 0.1	
Glass		< 0.1	
Metal		< 0.1	
Sharps		ND	
Total		< 0.5	

riginack	<u> </u>		ratio
Metals	Dry wt.	EPA Limit	units
Alumnium (Al)	2600	-	mg/kg
Arsenic (As):	2.5	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	6.4	-	mg/kg
Cobalt (Co)	1.6	-	mg/kg
Copper (Cu):	18	1500	mg/kg
Iron (Fe):	4400	-	mg/kg
Lead (Pb):	5.9	300	mg/kg
Manganese (Mn):	140	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.2	75	mg/kg
Nickel (Ni):	3.4	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn)·	75	2800	ma/ka

Size Distrib	Size Distribution			
MM	% by weight			
> 50	0.0			
25 to 50	0.0			
16 to 25	0.0			
9.5 to 16	0.0			
6.3 to 9.5	0.2			
4.0 to 6.3	2.1			
2.0 to 4.0	13.4			
< 2.0	84.4			
	* ** *	rns greater than 2mm)		

*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 07 Nov. 18 8110194 - 1/1 - 6671 Sample i.d. Green 2,3,5

Nov18B No. 16 Sample I.d. No. 1/1 8110194 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your F	Pile	
11.0 mg CO2-C/	+++++++++	++++++++++++++++++++	+++++++	
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch
Biologically Available Carbon (BAC)		Optimum Degradation Rate		
12.0 mg CO2-C/ ++++++		++++++++++++++++++++	++++++++++	
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch

Is Your Compost Mature?	<u> </u>		
AmmoniaN/NitrateN ratio			
31 Ratio	+++++++++++++++	+++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	VeryMature> <	Mature	> < Immature
Ammonia N ppm			
550 mg/kg	++++++++++++++	++++++++++++++++	++++++
dry wt.	VeryMature> <	Mature	> < Immature
Nitrate N ppm	Pass		
18 mg/kg	++++++++++++		
dry wt.	< Immature		> < Mature
pH value			
4.63 units	++++++++++++++	++++++++++++++++	+++
	< Immature		> < Mature > < Immature
Cucumber Emergence			
93.3 percent	++++++++++++++++	++++++++	+++++++++++++++++++++++++++++++++++++++
•	< Immature		> < Mature

Is Your Compost Safe Regarding Health?

> < High Fecal Coliform
) > < High Salmonella Count(> 3 per 4 grams)
> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)			
3.3 Percent	++++++++++++++++++++	+++	
dry wt.	<low> < Average</low>	> < High Nutrie	ent Content
AgIndex (Nutrients / Sodiun	n and Chloride Salts)	((N+P2O5+K2O) / (I	Na + Cl))
4 Ratio	+++++++++++++++++++		
	Na & Cl > < Nutrient and S	Sodium and Chloride Provider	> < Nutrient Provider
Plant Available Nitrogen (PA	AN) Estimated rele	ase for first season	
13 lbs/ton		++++++++++++++++++++++	++++
wet wt.	Low Nitrogen Provider> <	Average Nitrogen Provider	> <high nitrogen="" provider<="" th=""></high>
C/N Ratio			
18 Ratio	+++++++++++++++++++++++++++++++++++++++		
		Neutral > < N-Demand> < High N	itrogen Demand
Soluble Available Nutrients	& Salts (EC5 w/w dw)		
6.6 mmhos/cm	+++++++++++++++++++		
dry wt.	SloRelease> < Average Nut	rient Release Rate > <high av<="" th=""><th>ailable Nutrients</th></high>	ailable Nutrients
Lime Content (CaCO3)			
15 Lbs/ton		+++++++++++++++++++++++++++++++++++++++	+++++++++
dry wt.	< Low > < Medium > < Hig	h Lime Content (as CaCO3)	

What are the physical properties of your compost?

what are the physical pro	perties or your compos	<u></u>		
Percent Ash				
37.1 Percent	+++++++++++++++++++++++++++++++++++++++	+++++++		
dry wt.	< High Organic Matter	> < Average	> < High Ash Content	
Sieve Size % > 6.3 MM (0.25)	")			
0.2 Percent	+			
dry wt.	All Uses > < Size N	May Restrict Uses for Potti	ng mix and Golf Courses	
0.2 Percent	+	May Restrict Uses for Potti	ng mix and Golf Courses	

Account No.: Date Received 07 Nov. 18 8110194 - 1/1 - 6671 Sample i.d. Green 2,3,5

Nov18B No. 16 Sample I.d. No. 8110194 Group: 1/1

INTERPRETATION:

Is Your Compost Stable?

Page two of three

Respiration Rate

mg CO2-C/g OM/day 11.0 Moderate-selected use

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

Moderate-selected use mg CO2-C/g OM/day 12

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio

31	immature
Ammonia N	ppm
550	immature
Nitrate N ppr	n
18	immature
pH value	
4.63	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low _ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the Less than 3 case of biosolids industry to determine adequate pathogen reduction.

Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content 33

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

 Account No.:
 Date Received
 07 Nov. 18

 8110194 - 1/1 - 6671
 Sample i.d.
 Green 2,3,5

Group: Nov18B No. 16 Sample I.d. No. 1/1 8110194

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

4 Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

6.6 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

Average lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

37.1 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.2 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
		Estimated available nutrients for use v	when calculating application rates
Plant Available Nitrogen (PAN) ca	lculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) + ((NH4-I			,
X value = If BAC < 2 then X	= 0.1	Plant Available Nitrogen (PAN)	13.4
If BAC =2.1 to 5 t	hen X = 0.2	Ammonia (NH4-N)	0.92
If BAC =5.1 to 10	then X = 0.3	Nitrate (NO3-N)	0.03
If BAC > 10 then	X = 0.4	Available Phosphorus (P2O5*0.64)	5.5
Note: If C/N ratio > 15 additional N	I should be applied.	Available Potassium (K2O)	14.7



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 8110196-1/1-6671 Group: Nov18B #18 Reporting Date: November 20, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 07 Nov. 18
Sample Identification: Green 6,8,9
Sample ID #: 8110196 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.9	1.6	%
Ammonia (NH ₄ -N):	350	300	mg/kg
Nitrate (NO ₃ -N):	7.7	6.7	mg/kg
Org. Nitrogen (OrgN):	1.9	1.6	%
Phosphorus (as P_2O_5):	0.48	0.42	%
Phosphorus (P):	2100	1800	mg/kg
Potassium (as K ₂ O):	0.91	0.79	%
Potassium (K):	7600	6500	mg/kg
Calcium (Ca):	1.6	1.4	%
Magnesium (Mg):	0.31	0.27	%
Sulfate (SO ₄ -S):	320	280	mg/kg
Boron (Total B):	27	23	mg/kg
Moisture:	0	13.9	%
Sodium (Na):	0.30	0.26	%
Chloride (CI):	0.4	0.34	%
pH Value:	NA	6.38	unit
Bulk Density:	21	25	lb/cu ft
Carbonates (CaCO ₃):	21	18	lb/ton
Conductivity (EC5):	4.4	NA	mmhos/cm
Organic Matter:	61.6	53.0	%
Organic Carbon:	35.0	30.0	%
Ash:	38.4	33.1	%
C/N Ratio	19	19	ratio
AgIndex	5	5	ratio
Metals	Dry wt	FPA Limit	units

Stability Indicat	or:		Biologically
CO2 Evolution		Respirometery	Available C
mg CO ₂ -C/g OM/	/day	10.0	11.0
mg CO ₂ -C/g TS/o	day	6.3	6.6
Stability Ratin	g	unstable	unstable
Maturity Indicat	or: Cucum	ber Bioassay	
Compost:Vermic	ulite (v:v)	1:2	
Emergence (%)		100	
Seedling Vigor (%	6)	99	
Description of	^f Plants	healthy	
Pathogens	Results	Units	Rating
Fecal Coliform	> 2200	MPN/g	fail
Salmonella	< 3	MPN/4g	pass
Date Tested: 07 No	v. 18		
Physical Contar	ninants**	% by weight	
Total Plastic		< 0.1	
Film Plastic		< 0.1	
Glass		< 0.1	
Metal		< 0.1	
Sharps		ND	
Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Alumnium (Al)	2700	-	mg/kg
Arsenic (As):	2.4	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	6.6	-	mg/kg
Cobalt (Co)	1.9	-	mg/kg
Copper (Cu):	16	1500	mg/kg
Iron (Fe):	4900	-	mg/kg
Lead (Pb):	6.0	300	mg/kg
Manganese (Mn):	160	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.3	75	mg/kg
Nickel (Ni):	3.2	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	69	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	2.3	
2.0 to 4.0	15.7	
< 2.0	82.0	
**Greater tha	n 1mm in ciza (Sh	arns greater than 2mm)

*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 07 Nov. 18 8110196 - 1/1 - 6671 Sample i.d. Green 6,8,9

Nov18B No. 18 Sample I.d. No. 1/1 8110196 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate	Biodegradation Rate of Your Pile			
10.0 mg CO2-C/	++++++++	+++++++++++++++++++++	++++	
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch
Biologically Available Carbo	n (BAC)	Optimum Degradation Rate		
11.0 mg CO2-C/	++++++++	++++++++++++++++++++	+++++++	
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch

Is Your Compost Mature?	<u>?</u>			
AmmoniaN/NitrateN ratio				
45 Ratio	+++++++++++++++	+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	VeryMature> <	Mature	> <	Immature
Ammonia N ppm				
350 mg/kg	+++++++++++++++	++++++++++++++++	+++++	
dry wt.	VeryMature> <	Mature	> < lmı	mature
Nitrate N ppm	Pass			
7.7 mg/kg	+++++			
dry wt.	< Immature		> < Mature	
pH value				
6.38 units	+++++++++++++++	++++++++++++++++	+++++++++++++	
	< Immature		> < Mature	> < Immature
Cucumber Emergence				
100.0 percent	++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	< Immature			> < Mature

Is Your Compost Safe Regarding Health?

+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
< Safe	> < High Fecal Coliform
+++++	
<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
+++++++	
<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail
	< Safe ++++++ <safe (none="" ++++++++<="" detected)="" th=""></safe>

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)	
3.3 Percent	+++++++++++++++++++++++++++++++++++++++
dry wt.	<pre><low> < Average > < High Nutrient Content</low></pre>
AgIndex (Nutrients / Sodius	m and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
5 Ratio	+++++++++++++++++++++++++++++++++++++++
	Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider
Plant Available Nitrogen (P	AN) Estimated release for first season
13 lbs/ton	++++++
wet wt.	Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>
C/N Ratio	
19 Ratio	++++++
	< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
Soluble Available Nutrients	& Salts (EC5 w/w dw)
4.4 mmhos/cm	+++++++++++++++++++++++++++++++++++++++
dry wt.	SloRelease Slo
Lime Content (CaCO3)	
21 Lbs/ton	+++++++++++++++++++++++++++++++++++++++
dry wt.	< Low > < Medium > < High Lime Content (as CaCO3)

What are the physical properties of your compost?

Percent Ash		
38.4 Percent	+++++++	
dry wt.	< High Organic Matter > Average	> < High Ash Content
Sieve Size % > 6.3 MM (0.25	5")	
0.0 Percent	+	
dry wt.	All Uses > < Size May Restrict Uses for Pottin	g mix and Golf Courses

Account No.: Date Received 07 Nov. 18 8110196 - 1/1 - 6671 Sample i.d. Green 6,8,9

Nov18B No. 18 Sample I.d. No. 8110196 Group: 1/1

INTERPRETATION:

Is Your Compost Stable?

Page two of three

Respiration Rate

10.0 Moderate-selected use

mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

Moderate-selected use mg CO2-C/g OM/day 11

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio

45	immature	
Ammonia N	ppm	
350	mature	
Nitrate N ppr	m	
7.7	immature	
pH value	<u> </u>	
6.38	immature	

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

> 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the Less than 3 case of biosolids industry to determine adequate pathogen reduction.

Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content 33

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

 Account No.:
 Date Received
 07 Nov. 18

 8110196 - 1/1 - 6671
 Sample i.d.
 Green 6,8,9

Group: Nov18B No. 18 Sample I.d. No. 1/1 8110196

INTERPRETATION: AgIndex (Nutrients/Na+CI)

Page three of three

5 Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

19 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

4.4 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

21 High lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

38.4 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:		
	Estimated available nutrients for use when	calculating application rates
Plant Available Nitrogen (PAN) calculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		,
X value = If BAC < 2 then X = 0.1	Plant Available Nitrogen (PAN)	13.2
If BAC =2.1 to 5 then X = 0.2	Ammonia (NH4-N)	0.60
If BAC =5.1 to 10 then X = 0.3	Nitrate (NO3-N)	0.01
If BAC > 10 then X = 0.4	Available Phosphorus (P2O5*0.64)	5.2
Note: If C/N ratio > 15 additional N should be applied.	Available Potassium (K2O)	15.7



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 8110195-1/1-6671 Group: Nov18B #17 Reporting Date: November 20, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 07 Nov. 18
Sample Identification: Purple 3,4,6,7
Sample ID #: 8110195 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.8	1.5	%
Ammonia (NH ₄ -N):	400	330	mg/kg
Nitrate (NO ₃ -N):	7.3	6.0	mg/kg
Org. Nitrogen (OrgN):	1.8	1.5	%
Phosphorus (as P_2O_5):	0.52	0.43	%
Phosphorus (P):	2300	1900	mg/kg
Potassium (as K ₂ O):	1.0	0.82	%
Potassium (K):	8300	6800	mg/kg
Calcium (Ca):	1.8	1.5	%
Magnesium (Mg):	0.34	0.28	%
Sulfate (SO ₄ -S):	360	290	mg/kg
Boron (Total B):	27	22	mg/kg
Moisture:	0	18.2	%
Sodium (Na):	0.32	0.26	%
Chloride (CI):	0.41	0.33	%
pH Value:	NA	6.27	unit
Bulk Density :	23	29	lb/cu ft
Carbonates (CaCO ₃):	16	13	lb/ton
Conductivity (EC5):	4.5	NA	mmhos/cm
Organic Matter:	52.8	43.2	%
Organic Carbon:	30.0	25.0	%
Ash:	47.2	38.6	%
C/N Ratio	17	17	ratio
AgIndex	5	5	ratio

Stability Indicate	or:		Biologically
CO2 Evolution		Respirometery	Available C
mg CO ₂ -C/g OM/	day	5.9	6.1
mg CO ₂ -C/g TS/d	lay	3.1	3.2
Stability Ratin	g	moderately unstable	moderately unstable
Maturity Indicate	or: Cucum	ber Bioassay	
Compost:Vermica	ulite (v:v)	1:2	
Emergence (%)		100	
Seedling Vigor (%	6)	110	
Description of	Plants	healthy	
Pathogens	Results	Units	Rating
Fecal Coliform	700	MPN/g	pass
Salmonella	< 3	MPN/4g	pass
Date Tested: 07 Nov	ı. 18		
Physical Contan	ninants**	% by weight	
Total Plastic		< 0.1	
Film Plastic		< 0.1	
Glass		< 0.1	
Metal		< 0.1	
Sharps		ND	
Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Alumnium (Al)	3200	-	mg/kg
Arsenic (As):	2.8	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	6.7	-	mg/kg
Cobalt (Co)	2.1	-	mg/kg
Copper (Cu):	17	1500	mg/kg
Iron (Fe):	5600	-	mg/kg
Lead (Pb):	5.8	300	mg/kg
Manganese (Mn):	170	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.4	75	mg/kg
Nickel (Ni):	3.8	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	70	2800	mg/kg

Size Distrib	ution		
MM	% by weight		
> 50	0.0		
25 to 50	0.0		
16 to 25	0.0		
9.5 to 16	0.0		
6.3 to 9.5	0.0		
4.0 to 6.3	1.8		
2.0 to 4.0	10.5		
< 2.0	87.7		
**Greater the	on 1mm in size (Sha	rns greater than 2mm)	

*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 07 Nov. 18 8110195 - 1/1 - 6671 Sample i.d. Purple 3,4,6,7

Sample I.d. No. Group: Nov18B No. 17 1/1 8110195

INTERPRETATION:

Is Your Compost Stable?

Respiration Rate Biodegradation Rate of Your Pile **5.9** mg CO2-C/ +++++++ >|< Moderately Unstable >|< Unstable >|< High For Mulch g OM/day < Stable

Biologically Available Carbon (BAC) Optimum Degradation Rate

6.1 mg CO2-C/ ++++++++++++ >|< Moderately Unstable >|< Unstable >|< High For Mulch < Stable g OM/day

Is Your Compost Mature?

AmmoniaN/NitrateN ratio

55 Ratio VeryMature>|< Mature >|< Immature

Page one of three

Ammonia N ppm 400 mg/kg

>|< Immature dry wt. VeryMature>|<

Nitrate N ppm **Pass**

7.3 mg/kg < Immature >|< Mature dry wt.

pH value **6.27** units

Immature >|< Mature >|< Immature

Cucumber Emergence 100.0 percent Immature >|< Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 MPN/g dry wt. ++++++ >|< High Fecal Coliform Safe

Salmonella

Less than 3 /4g dry wt. <Safe (none detected) >|< High Salmonella Count(> 3 per 4 grams)

US EPA 503 Metals Pass dry wt. >|< One or more Metals Fail <All Metals Pass

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)

3.3 Percent >|< Average >|< High Nutrient Content <Low dry wt.

AgIndex (Nutrients / Sodium and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))

5 Ratio +++++++++++++++++++ Na & Cl > | Nutrient and Sodium and Chloride Provider >|< Nutrient Provider

Plant Available Nitrogen (PAN) Estimated release for first season

9 lbs/ton

> Low Nitrogen Provider>|< Average Nitrogen Provider >|<High Nitrogen Provider wet wt

C/N Ratio 17 Ratio ++++++++++++++++

< Nitrogen Release > | < N-Neutral > | < N-Demand> | < High Nitrogen Demand

Soluble Available Nutrients & Salts (EC5 w/w dw)

4.5 mmhos/cm

SloRelease>| Average Nutrient Release Rate >| High Available Nutrients dry wt.

Lime Content (CaCO3) 16 Lbs/ton < Low > | Medium > | High Lime Content (as CaCO3)

What are the physical properties of your compost?

Percent Ash

47.2 Percent < High Organic Matter >|< High Ash Content dry wt. >|< Average Sieve Size $\% > 6.3 \text{ MM } (0.25^{"})$

dry wt.

0.0 Percent All Uses >|< Size May Restrict Uses for Potting mix and Golf Courses dry wt.

Account No.: Date Received 07 Nov. 18 8110195 - 1/1 - 6671 Sample i.d. Purple 3,4,6,7

Nov18B No. 17 Sample I.d. No. 8110195 Group: 1/1

INTERPRETATION:

Is Your Compost Stable?

Page two of three

Respiration Rate

mg CO2-C/g OM/day 5.9 Moderate-selected use

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

Moderate-selected use mg CO2-C/g OM/day 6

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio

55	immature			
Ammonia N ppm				
400	mature			
Nitrate N ppm				
7.3	immature			
pH value				
6.27	immature			

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low _ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the Less than 3 case of biosolids industry to determine adequate pathogen reduction.

Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content 33

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

 Account No.:
 Date Received
 07 Nov. 18

 8110195 - 1/1 - 6671
 Sample i.d.
 Purple 3,4,6,7

Group: Nov18B No. 17 Sample I.d. No. 1/1 8110195

INTERPRETATION: AgIndex (Nutrients/Na+CI)

Page three of three

5 Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

9 Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied. **C/N Ratio**

17 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

4.5 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

Average lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

47.2 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
		Estimated available nutrients for use when calculating application rates	
Plant Available Nitrogen (PAN) calculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) + ((NF	,		,
X value = If BAC < 2 the	n X = 0.1	Plant Available Nitrogen (PAN)	9.5
If BAC =2.1 to	5 then X = 0.2	Ammonia (NH4-N)	0.66
If BAC =5.1 to	10 then X = 0.3	Nitrate (NO3-N)	0.01
If BAC > 10 the	en X = 0.4	Available Phosphorus (P2O5*0.64)	5.5
Note: If C/N ratio > 15 addition	al N should be applied.	Available Potassium (K2O)	16.4



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 8110197-1/1-6671 Group: Nov18B #19 Reporting Date: November 20, 2018

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 07 Nov. 18
Sample Identification: Blue 1,3,5
Sample ID #: 8110197 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.5	1.2	%
Ammonia (NH₄-N):	680	550	mg/kg
Nitrate (NO ₃ -N):	16	13	mg/kg
Org. Nitrogen (OrgN):	1.4	1.1	%
Phosphorus (as P_2O_5):	0.51	0.41	%
Phosphorus (P):	2200	1800	mg/kg
Potassium (as K ₂ O):	0.94	0.75	%
Potassium (K):	7800	6200	mg/kg
Calcium (Ca):	1.5	1.2	%
Magnesium (Mg):	0.31	0.25	%
Sulfate (SO ₄ -S):	620	500	mg/kg
Boron (Total B):	24	19	mg/kg
Moisture:	0	19.9	%
Sodium (Na):	0.30	0.24	%
Chloride (CI):	0.42	0.33	%
pH Value:	NA	4.31	unit
Bulk Density :	28	35	lb/cu ft
Carbonates (CaCO ₃):	16	12	lb/ton
Conductivity (EC5):	6.7	NA	mmhos/cm
Organic Matter:	53.0	42.4	%
Organic Carbon:	26.0	21.0	%
Ash:	47.0	37.7	%
C/N Ratio	17	17	ratio
AgIndex	4	4	ratio
Metals	Dry wt	FPA Limit	units

Stability Indicator:		Biologically
CO2 Evolution	Respirometery	Available C
mg CO₂-C/g OM/day	14.0	14.0
mg CO₂-C/g TS/day	7.2	7.6
Stability Rating	unstable	unstable
Maturity Indicator: Cucu	mber Bioassay	
Compost:Vermiculite (v:v)	1:2	
Emergence (%)	93	
Seedling Vigor (%)	60	
Description of Plants	fungus	
Pathogens Results	Units	Rating
Fecal Coliform < 7.5	MPN/g	pass
Salmonella < 3	MPN/4g	pass
Date Tested: 07 Nov. 18		
Physical Contaminants**	% by weight	
Total Plastic	< 0.1	
Film Plastic	< 0.1	
Glass	< 0.1	
Metal	< 0.1	
Sharps	ND	
Total	< 0.5	

Metals	Dry wt.	EPA Limit	units
Alumnium (Al)	4000	-	mg/kg
Arsenic (As):	2.5	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	10	-	mg/kg
Cobalt (Co)	2.5	-	mg/kg
Copper (Cu):	22	1500	mg/kg
Iron (Fe):	7300	-	mg/kg
Lead (Pb):	10	300	mg/kg
Manganese (Mn):	170	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.3	75	mg/kg
Nickel (Ni):	4.7	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	98	2800	mg/kg

Size Distribu	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.1	
4.0 to 6.3	1.0	
2.0 to 4.0	7.6	
< 2.0	91.2	
**Croater the	n 1mm in ciza (Sh	arns areater than 2mm)

*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 07 Nov. 18 8110197 - 1/1 - 6671 Sample i.d. Blue 1,3,5

Nov18B No. 19 Sample I.d. No. 1/1 8110197 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your F	ile					
14.0 mg CO2-C/	+++++++++++++++++++++++++++++++++++++++							
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch				
Biologically Available Carbo	n (BAC)	Optimum Degradation Rate						
14.0 mg CO2-C/	++++++++	++++++++++++++++++++	++++++++++++	+++++				
g OM/day	< Stable	> < Moderately Unstable > <	Unstable	> < High For Mulch				

Is Your Compost Mature:	<u>?</u>		
AmmoniaN/NitrateN ratio			
42 Ratio	++++++++++++++	++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	VeryMature> <	Mature	> < Immature
Ammonia N ppm			
680 mg/kg	+++++++++++++	+++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
dry wt.	VeryMature> <	Mature	> < Immature
Nitrate N ppm	Pass		
16 mg/kg	++++++++++		
dry wt.	< Immature		> < Mature
pH value			
4.31 units	+++++++++++++	+++++++++++++++	
	< Immature		> < Mature > < Immature
Cucumber Emergence			
93.3 percent	+++++++++++++	++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	< Immature		> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform		
< 1000 MPN/g dry wt.	++++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
3 ,	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" td=""><td>> < One or more Metals Fail</td></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

+++++++++++++++++++
<low> < Average > < High Nutrient Content</low>
and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
++++++++++++++++
Na & Cl > Nutrient and Sodium and Chloride Provider > Nutrient Provider
N) Estimated release for first season
++++++
Low Nitrogen Provider < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>
+++++++++++++++++++++++++++++++++++++++
< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
& Salts (EC5 w/w dw)
++++++
SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" td=""></high>
+++++++++++++++++++++++++++++++++++++++
< Low > < Medium > < High Lime Content (as CaCO3)

What are the physical properties of your compost?

Percent Ash		
47.0 Percent	+++++++++++++++++++++++++++++++++++++++	
dry wt.	< High Organic Matter > < Average	> < High Ash Content
Sieve Size % > 6.3 MM (0.25	5")	
0.1 Percent	+	
dry wt.	All Uses > < Size May Restrict Uses for Potting	ng mix and Golf Courses

Account No.: Date Received 07 Nov. 18 8110197 - 1/1 - 6671 Sample i.d. Blue 1,3,5

Nov18B No. 19 Sample I.d. No. 1/1 Group: 8110197

INTERPRETATION:

Is Your Compost Stable? Page two of three

Respiration Rate

mg CO2-C/g OM/day 14.0 High-for mulch

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Biologically Available Carbon

High-for mulch mg CO2-C/g OM/day 14

Biologically Available Carbon (BAC) is a measurement of the rate at which CO2 is released under optimized moisture, temperature, porosity, nutrients, pH and microbial conditions. If both the RR and the BAC test values are close to the same value, the pile is optimized for composting. If both values are high the compost pile just needs more time. If both values are low the compost has stabilized and should be moved to curing. BAC test values that are higher than RR indicate that the compost pile has stalled. This could be due to anaerobic conditions, lack of available nitrogen due to excessive air converting ammonia to the unavailable nitrate from lack of nitrogen or other nutrients due to poor choice of feedstock, pH value out of range, or microbes rendered non-active.

Is Your Compost Mature?

AmmoniaN:NitrateN ratio

immature

42

Ammonia N p	opm
680	immature
Nitrate N ppn	n
16	immature
pH value	
4.31	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media. In addition to testing a 1:1 compost: vermiculite blend, we also test a diluted 1:4 blend to indicate a more sensitive toxicity level.

Is Your Compost Safe Regarding Health?

Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the Less than 3 case of biosolids industry to determine adequate pathogen reduction.

Metals

The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

Average nutrient content 29

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

 Account No.:
 Date Received
 07 Nov. 18

 8110197 - 1/1 - 6671
 Sample i.d.
 Blue 1,3,5

Group: Nov18B No. 19 Sample I.d. No. 1/1 8110197

INTERPRETATION:

AgIndex (Nutrients/Na+CI)

Page three of three

4 Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

Average N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on information gathered from the BAC test and measured ammonia and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

17 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate (BAC). If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

6.7 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

Average lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

47.0 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.1 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:		
	Estimated available nutrients for use w	hen calculating application rates
Plant Available Nitrogen (PAN) calculations:		lbs/ton (As Rec'd)
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))	1))	,
X value = If BAC < 2 then X = 0.1	Plant Available Nitrogen (PAN)	10.3
If BAC =2.1 to 5 then X = 0.2	Ammonia (NH4-N)	1.10
If BAC =5.1 to 10 then X = 0	.3 Nitrate (NO3-N)	0.03
If BAC > 10 then $X = 0.4$	Available Phosphorus (P2O5*0.64)	5.2
Note: If C/N ratio > 15 additional N should be	applied. Available Potassium (K2O)	14.9

April 16, 2019

Mr. Bill Prinz Program Manager Solid Waste Local Enforcement Agency (LEA) 9601 Ridghaven Court, Suite 220, MS 1102B San Diego, CA 92123

Dear Mr. Prinz:

Reference: Quarterly Report-January through March, 2019

The City of San Diego's Environmental Services Department is submitting this report in compliance with the Self-Monitoring requirements in Compostable Materials Handling Facility Permit number 37-AB-0003 for the Miramar Greenery. The reporting period is for January through March 2019.

Attachment 1 reports the daily tonnage received by material type and number of vehicles using the site. Attachment 2 summarizes the Log of Special Occurrences, Load Check results and also includes quantities of "contaminants" hauled to the landfill. Attachment 3 summarizes the volume of product leaving the facility per month. Attachment 4 details soil testing for pathogenic organisms, metals and contaminants as required by 14 CCR, Chapter 3.1, and Article 7.

If you have any questions or comments regarding this report, please feel free to contact me at (858) 492-6151 or Burton Ewert at (858) 627-3320.

Sincerely,

James Hay Senior Mechanical Engineer

JH/bce

Enclosures: Attachments 1-4

cc: Mario X. Sierra, Director, Environmental Services Department Hassan Yousef, Assistant Director, Environmental Services Department Renee Robertson, Deputy Director, Environmental Services Department Burton Ewert, Biologist III, Environmental Services Department

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 01/02/2019 To 01/31/2019

			FOOD \		0111 0 1702	72019 10	01,01,20		CHRIS	TMAS		
DATE	FOOD V	VASTE	MULT	IPLE	GREE	NERY	WOOD	WASTE	TRE	ES	TOT	
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
01/02/2019	2	14.19			123	226.62	8	6.51	32	56.38	165	303.7
01/03/2019	5	10.07	1	2.12	149	225.94	10	11.36	25	23.59	190	273.08
01/04/2019	3	9.12	1	8.57	125	176.35	7	8.71	20	10.98	156	213.73
01/05/2019	3	11.09	2	10.32	229	300.62	7	4.33	57	89.1	298	415.46
01/07/2019	3	12.88	2	3.97	121	273.15	5	7.69	32	37.81	163	335.5
01/08/2019	3	7	1	0.26	145	295.81	8	13.7	11	12.43	168	329.2
01/09/2019	2	10.56	3	13.02	164	247.71	12	24.1	17	21.9	198	317.29
01/10/2019	6	16.23	1	0.57	158	219.55	12	25.47	19	22.67	196	284.49
01/11/2019	5	11.13	2	7.43	196	268.63	12	23.65	11	5.9	226	316.74
01/12/2019	3	7.69	1	2.37	88	70.97	6	6.71	38	69.46	136	157.2
01/14/2019	4	16.55	3	10.4	91	291.13	4	5.54	16	24.62	118	348.24
01/15/2019	5	17.57	1	3.14	55	164.93	3	3.03	3	2.3	67	190.97
01/16/2019	2	3.84	2	6.28	63	122.61	5	3.46	9	4.25	81	140.44
01/17/2019	7	16.57	1	0.79	60	156.07	9	9.92	6	3.29	83	186.64
01/18/2019	5	24.85	3	13.71	80	173.42	2	1.9	8	4.61	98	218.49
01/19/2019	3	12.72	1	2.19	134	122.3	9	6.46	31	46.04	178	189.71
01/21/2019	3	14.15	2	7.22	158	305.59	3	5.61	16	9.08	182	341.65
01/22/2019	5	13.72	1	2.73	142	267.67	6	8.53	12	7.24	166	299.89
01/23/2019	3	14.07	2	6.58	165	243.18	7	6.31	4	2.48	181	272.62
01/24/2019	7	18.02	1	1.22	134	195.25	16	15.36	6	2.72	164	232.57
01/25/2019	5	18.52	1	3.95	170	266.73	8	8.2	6	3	190	300.4
01/26/2019	2	4.62	1	3.85	225	184.1	14	12.43	36	32.59	278	237.59
01/28/2019	4	21.95	2	9.07	217	383.68	11	10.44	10	6.05	244	431.19
01/29/2019	7	25.73	1	4.93	188	300.36	14	12.25	3	1.79	213	345.06
01/30/2019	2	3.43	2	5.92	184	288	16	26.99	5	2.89	209	327.23
01/31/2019	7	20.41	1	1.04	144	215.31	12	15.51	4	1.62	168	253.89
SUM	106	356.68	39	131.65	3708	5985.68	226	284.17	437	504.79	4516	7262.97

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 02/01/2019 To 02/28/2019

			FOOD \		0111 02/01	72019 10	02/28/20	719	CHRIS	TMAS		
DATE	FOOD V	VASTE	MULT		GREE	NERY	WOOD	WASTE	TRE		тот	
DATE		- 2112	10150	- 0.110	10150	- 0.10		Tobio		- 0.110	TOTAL #	TOTAL
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	OF LOADS	TONS
02/01/2019	4	15.56	3	10.54	106	216.77	18	20.98	5	2.88	136	266.73
02/02/2019	5	28.73	1	2.51	66	51.98	4	4.17	15	6.14	91	93.53
02/04/2019	3	13.67	3	12.9	98	313.73	5	9.77	1	0.69	110	350.76
02/05/2019	4	11.32	2	4.48	63	212.38	4	3.01	3	1.22	76	232.41
02/06/2019	3	12.07	2	7.3	95	192.67	7	9.51	1	0.12	108	221.67
02/07/2019	4	20.67	1	1.02	121	178.44	11	7.94	1	0.69	138	208.76
02/08/2019	3	14.19	1	3.16	171	303.63	8	14.77	9	4.41	192	340.16
02/09/2019	3	8.89	1	2.33	205	183.86	13	21.75	13	5.58	235	222.41
02/11/2019	4	21.18	1	2.99	194	402.2	20	45.92	4	1.91	223	474.2
02/12/2019	5	22.5	2	11.48	206	296.23	13	19.04	1	0.12	227	349.37
02/13/2019	2	8.95	2	6.82	127	234.32	5	3.93			136	254.02
02/14/2019	6	24.79			28	88.18					34	112.97
02/15/2019	3	8.91	2	7.11	112	241.56	7	8.2			124	265.78
02/16/2019	3	13.31			193	164.01	9	14.54			205	191.86
02/18/2019	5	31.12	2	9.39	186	338.61	17	23.88			210	403
02/19/2019	4	10.4	1	1.99	159	301.73	16	14.54			180	328.66
02/20/2019	1	3.51	3	9.6	174	309.96	12	14.09			190	337.16
02/21/2019	5	20.07	1	1.05	49	117.85	7	15.67			62	154.64
02/22/2019	5	18.18	3	10.52	117	225.11	10	8.09			135	261.9
02/23/2019	2	5.68	1	2.05	228	209.03	14	14.66			245	231.42
02/25/2019	4	16.47	3	14.22	214	453.41	6	4.71			227	488.81
02/26/2019	6	22.72	2	5.36	159	286.13	11	12.07			178	326.28
02/27/2019	2	9.75	2	8.35	185	296.77	16	16.55			205	331.42
02/28/2019	3	11.79	1	1.07	160	236.21	16	19.14			180	268.21
SUM	89	374.43	40	136.24	3416	5854.77	249	326.93	53	23.76	3847	6716.13

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 03/01/2019 To 03/31/2019

			FOOD \		om 03/01	72019 10	03/31/20	719	CHRIS	TMAS		
DATE	FOOD \	NASTE	MULT		GREE	NERY	WOOD	WASTE	TRE		тот	
DAIL	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
03/01/2019	3	12.02	2	8.02	222	343.27	5	11.67			232	374.98
03/02/2019	2	6.32	1	2.25	66	62.4	1	0.51			70	71.48
03/04/2019	6	32	2	8.66	138	315.44	9	11.42			155	367.52
03/05/2019	4	13.62	2	10.04	189	319.95	13	17.72			208	361.33
03/06/2019	1	3.46	2	4.78	129	234.02	14	16.24			146	258.5
03/07/2019	3	10.96	1	1.5	99	138.88	6	4.52			109	155.86
03/08/2019	4	13.58	3	10.87	142	254.3	8	11.37			157	290.12
03/09/2019	2	10.35	1	2.52	301	261.99	10	18.84			314	293.7
03/11/2019	2	13.39	1	2.6	230	455.6	10	7.78			243	479.37
03/12/2019	6	15.89	1	1.68	118	273.73	5	4.25			130	295.55
03/13/2019	2	9.7	1	5.3	135	245.68	6	4.5			144	265.18
03/14/2019	4	12.45	1	1.12	156	229.38	11	14.53			172	257.48
03/15/2019	3	9.37	3	12.79	165	273.76	14	19.25			185	315.17
03/16/2019	2	6.71	1	2.05	313	244.15	10	12.27			326	265.18
03/18/2019	4	20.16	2	8.3	265	446.21	15	19.53			286	494.2
03/19/2019	5	17.58	2	4.58	248	409.05	19	32.87			274	464.08
03/20/2019	2	11.77	2	7.09	158	300.85	14	12.52			176	332.23
03/21/2019	4	11.95	1	0.91	118	164.16	11	11.11			134	188.13
03/22/2019	4	13.64	2	8.28	174	298.57	10	12.88			190	333.37
03/23/2019	3	10.57	1	2.5	297	239.25	5	6.06			306	258.38
03/25/2019	4	12.95	2	11.23	275	527.41	12	11.06			293	562.65
03/26/2019	5	23.67	1	2.91	208	358.27	10	10.62			224	395.47
03/27/2019	2	6.56	2	8.73	174	308.61	11	13.38			189	337.28
03/28/2019	4	13.93	2	2 9.14 1		265.68	13	14.72			214	303.47
03/29/2019	4	14.06	2	6.99	196	342.79	5	12.83			207	376.67
03/30/2019	3	8.49	1	5.19	354	306.19	10	7.41			368	327.28
SUM	88	335.15	42	150.03	5065	7619.59	257	319.86			5452	8424.63
TOTAL	283	1066.26	121	417.92	12216	19553.5	732	930.96	490	528.55	13815	22403.73

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SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

		JANUARY 2019	
DATE	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
1/1/2019	NSO	Landfill closed	
1/2/2019	NSO		
1/3/2019	NSO		
1/4/2019	NSO		
1/5/2019	NSO	Rain pm	
1/6/2019	NSO	Rain in AM .5" season total 3.3	
1/7/2019	NSO	Muddy	
1/8/2019	NSO	Muddy	
1/9/2019	NSO		
1/10/2019	NSO		
1/11/2019	NSO	Rain in PM	
1/12/2019	NSO	Muddy went to wet deck	
1/13/2019	NSO	Muddy	
1/14/2019	NSO	Rain	
1/15/2019	NSO	Rain	
1/16/2019	NSO	Mud	
1/17/2019	NSO	Rain	
1/18/2019	NSO	Muddy	
1/19/2019	NSO	Muddy	
1/20/2019	NSO	Muddy	
1/21/2019		Muddy/Windy	
1/22/2019	NSO		
1/23/2019			
1/24/2019			
1/25/2019	NSO		
1/26/2019	NSO		
1/27/2019	NSO		
1/28/2019	NSO		
1/29/2019			
1/30/2019			
1/31/2019		Rain .7"	
, - ,		Monthly Total	

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

		FEBRUARY 2019	
DATE	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
2/1/2019	NSO	Muddy	5
2/2/2019	NSO	Rain 1.3" Season total 6.5"	0
2/3/2019	NSO	Muddy	0
2/4/2019	NSO	Rain Mud	12
2/5/2019	NSO	Rain Mud	0
2/6/2019	NSO	Rain Mud	0
2/7/2019	NSO	Sunshine & Mud	0
2/8/2019	NSO		0
2/9/2019	NSO		16
2/10/2019	NSO		0
2/11/2019	NSO		0
2/12/2019	NSO		0
2/13/2019	NSO	Rain	0
2/14/2019	NSO	Rain	14
		Checked rain gague 2.6" Season Total	
2/15/2019	NSO	9.1"	0
2/16/2019	NSO		0
2/17/2019	NSO	Some rain in PM	5
2/18/2019	NSO	Rain 1.0" season total 10.1"	4
2/19/2019	NSO		0
2/20/2019	NSO		0
2/21/2019	NSO		0
2/22/2019	NSO		6
2/23/2019	NSO		0
2/24/2019	NSO		0
2/25/2019	NSO		9
2/26/2019	NSO		0
2/27/2019	NSO		0
2/28/2019	NSO		0
		Monthly Total	71

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

		MARCH 2019	
DATE	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
3/1/2019	NSO	APCD out for oder comlaints	8
3/2/2019	NSO	Rain Rain .3" season total 10.4"	0
3/3/2019	NSO	Muddy	0
3/4/2019	NSO	Muddy	6
3/5/2019	NSO		0
3/6/2019	NSO	Rain	12
3/7/2019	NSO	Muddy	0
3/8/2019	NSO	Rain .3" 10.7 total for season	0
3/9/2019	NSO	Muddy	0
3/10/2019	NSO	Muddy	15
3/11/2019	NSO	Rain PM	0
3/12/2019	NSO	Rain AM .5" 11.2 total for season	0
3/13/2019	NSO		9
3/14/2019	NSO		0
3/15/2019	NSO		14
3/16/2019	NSO		0
3/17/2019	NSO		0
3/18/2019	NSO		5
3/19/2019	NSO		0
3/20/2019	NSO	Rain PM no accumulation	8
3/21/2019	NSO		0
3/22/2019	NSO		0
3/23/2019	NSO		3
3/24/2019	NSO		0
3/25/2019	NSO		0
3/26/2019	NSO		6
3/27/2019	NSO		0
3/28/2019	NSO		0
3/29/2019	NSO		12
3/30/2019	NSO		0
3/31/2019	NSO		0
		Monthly Total	98

Historical Incoming and Outgoing Greens Report

FY19 Totals	lup_18	May-18	Apr-18	Mar-18	Feb-18	Jan-18	Dec-17	Nov-17	Oct-17	Sep-17	Aug-17	Jul-18		FY18 Totals		FY17 Totals		FY16 Totals		FY15 Totals		FY14 Totals		FY13 Totals		FY12 Totals		FY11 Totals	FY10 Totals		FY09 Totals		FY08 Totals			Month/ Year	
60,569				7620	5855	5986	5832	6328	7474	7069	7425	6980		87,369		89,727		92,590		87,292	ļ	90,198		90,555		88,507	01,100	91 799	97,041		94,078		98,430			Clean Greens	
2646				320		3 284								3,809		4,554		4,645		4,368	,	3,753		3,339		3,419	9, IN	3 121	3,344		4,361		4,042			Wood	Incom
686.71				0	24	505	156	0.61	0	0	0.69	0.41		677		986		1,096		857	ļ	1,040		1,085		1,035	.,00	1 037	983		922		897		Trees	X-Mas	Incoming Tons
5,119) 485	511	5 488	493	569			665			7,514		7,786		7,605		9,388		7,481		5,396		3,689	1,700	2 409	1,896		2,162		1,462		Waste	Food	S
0														0		0		0		166	-	310		127		60	Ī	13	0		73		766		in FY11	Drywall/ Animal	
69,020				0 8425	0 6717	0 7263	0 6775	0 7125	0 8421		0 8426			99,369		103,052		105,935		102,071		102,782		100,502		96,710	30,013	98 379	103,264		101,596		105,596			Total	
840				98	71	113	91		98		90		FY18	982	FY1:	858	FY17	1,020	FY1	911	FY1	653	FY1	881	FY1:	676	EV1	792	800	FY1	912	FY0	948	FY0	tons	Greens Trash	
2848				396	196	896	0	352	_	0		0	8 Totals	15,564	FY18 Totals	33,124	_	15,356	FY16 Totals	31,940	FY15 Totals	54,840	FY14 Totals	65,370	FY13 Totals	52,068	FY12 Totals	2 32 644	4,445	FY10 Totals	2,545	FY09 Totals	7,140	FY08 Totals	yards	ADC	
42,392				5156	4508	2464	560	0	504	15,792	5,392	8,016		19,668		3,164		5,021		6,932		8,360		16,520		18,304	10,107	13 754	25,710		38,178		41,784		yards	Miramar Slope Mulch	
0				0	0	0	0							0		2,044		175		0		0		0		3,950		0	5,000		11,330		8,350		yards	Other Internal Mulch	
0				0	0	0	0)	0	0	0	0		0		0		0		0		0		0		0		0	0		0		0		yards	Other Internal Chips	Outgo
40000				0	0	0	0	40000	0	0	0			1,340		0		0		0		2,106		0		0	•	0	0		0		11,230		yards	Other Internal Compost	Outgoing Yards
36,322				4170			2562					4301		55,038		68,671		78,828		56,516		52,894		45,676		27,015	27,000	24 060	29,911		28,993		11,851		ALL Mulch		
13,547				1325	1322	987	770	485	1592	2435	2310	2321		19,407		22,823		24,901		30,667		30,302		29,546		26,731	r	19 175	25,328		20,102		19,955		Compost & Overs	Sales (cubic yards)	
4,657				638	293	581	347	283	314	123	1274	804		11,298		14,011		16,103		15,648		13,369		17,764		17,168	10,010	16 878	19,828		22,817		25,201		All Woodchips	; yards)	



Date Sampled/Received: 27 Mar. 19 / 28 Mar. 19

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego

CA 92123

Product Identification

Public Compost

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab;	42 Hangar Way; Watsonville, CA 95076	<i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	Not reported	Not reported
Moisture Content	%, wet weight basis	33.4	
Organic Matter Content	%, dry weight basis	58.8	
рН	units	6.60	
Soluble Salts (electrical conductivity EC 5)	dS/m (mmhos/cm)	5.6	
Particle Size or Sieve Size	maxium aggregate size, inches	0.38	
Stability Indicator (respirometry)		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day	4.2	Moderately Un-Stable
	mg CO ₂ -C/g TS/day	2.5	Wioderatery On-Stable
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	93.3	
Relative Seedling Vigor	average % of control	118.3	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Dana	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Mar19E	Laboratory Number: 9030818-1/1
Analyst: Assaf Sadeh	any Sakel	www.compostlab.com



Date Sampled/Received: 27 Mar. 19 / 28 Mar. 19

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego

CA 92123

Product Identification

Public Compost

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	76 <i>tel:</i> 831.724.5422	fax: 831.724.3188	
Compost Parameters	Reported as (units of measure)	Test Results	Test Results	
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis	
Nitrogen	Total N	1.3	1.9	
Phosphorus	P_2O_5	0.41	0.61	
Potassium	K ₂ O	0.76	1.1	
Calcium	Ca	1.3	2.0	
Magnesium	Mg	0.27	0.41	
Moisture Content	%, wet weight basis	33.4		
Organic Matter Content	%, dry weight basis	58.8		
pН	units	6.60		
Soluble Salts (electrical conductivity EC ₅)	dS/m (mmhos/cm)	5.6		
Particle Size or Sieve Size	% under 9.5 mm, dw basis	100.0		
Stability Indicator (respirometry	y)	-	Stability Rating:	
CO ₂ Evolution	mg CO ₂ -C/g OM/day	4.2	Moderately Un-Stable	
	mg CO ₂ -C/g TS/day	2.5	Wioderatery Cir Stable	
Maturity Indicator (bioassay)				
Percent Emergence	average % of control	93.3		
Relative Seedling Vigor	average % of control	118.3		
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform	
		Pass	Salmonella	
Trace Metals	PASS/FAIL: per US EPA Class A	Daga	As,Cd,Cr,Cu,Pb,Hg	
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn	

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Mar19E	Laboratory Number:	9030818-1/1
Analyst: Assaf Sadeh	any Sole	www.compostlab.com	



City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego CA 92123

Product Identification:

Public Compost

Date Sampled/Received: 27 Mar. 19 / 28 Mar. 19

Caltrars

COMPOST TECHNICAL DATA SHEET for Caltrans

LABORATORY: Soil Control Lab, 42 Hangar Way, Watsonville, CA 95076 tel (831) 724-5422 fax (831) 724-3188 www.compostlab.com

Compost Parameters	Test Results	Reported as (units of measure)	TMECC Test
			Method
pН	6.60	Unitless	04.11-A 1:5 Slurry pH
Soluble Salts (electrical conductivity)	5.6	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method Mass Basis
Moisture content	33.4	%, wet weight basis	03.09-A - Total Solids and Moisture
Organic Matter Content	58.8	%, dry weight basis	05.07-A Loss-on-Ignition Organic Matter Method (LOI)
Maturity Indicator (bioassay)			
Percent Emergence	93.3	average % of control	05.05-A Germination and vigor
Relative Seedling Vigor	118.3	average % of control	
Stability Indicator	4.2	mg CO2-C/g OM/day	05.08-B Carbon Dioxide Evoultion Rate
Particle Size	100.0	%, dry weight passing through 9.5 mm	02.02-B Sample Sieving for Aggregate Size Classification
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.01-B Fecal coliforms
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.02 Samonella
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Total content
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Sharps content
Heavy Metals Content	Pass	PASS/FAIL: Per US EPA Class A 40 CFR 503.13, tables 1 and 3.	04.06-Heavy Metals standard, and Hazardous Elements

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org.

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality. or suitability for any particular use.

Laboratory Group: Mar19E Laboratory Number: 9030818-1/1

Analyst: Assaf Sadeh

www.compostlab.com

ANALYTICAL CHEMISTS and
BACTERIOLOGISTS
Approved by State of California

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com



Account #: 9030818-1/1-6671 Group: Mar19E #33 Reporting Date: April 11, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 28 Mar. 19 Sample Identification: **Public Compost** Sample ID #: 9030818 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.9	1.3	%
Ammonia (NH ₄ -N):	380	250	mg/kg
Nitrate (NO ₃ -N):	6.7	4.5	mg/kg
Org. Nitrogen (OrgN):	1.9	1.3	%
Phosphorus (as P ₂ O ₅):	0.60	0.40	%
Phosphorus (P):	2700	1800	mg/kg
Potassium (as K ₂ O):	1.1	0.75	%
Potassium (K):	9400	6300	mg/kg
Calcium (Ca):	2.0	1.3	%
Magnesium (Mg):	0.41	0.27	%
Sulfate (SO ₄ -S):	340	230	mg/kg
Boron (Total B):	25	17	mg/kg
Moisture:	0	33.4	%
Sodium (Na):	0.35	0.23	%
Chloride (CI):	0.54	0.36	%
pH Value:	NA	6.60	unit
Bulk Density :	23	35	lb/cu ft
Carbonates (CaCO ₃):	3.8	2.5	lb/ton
Conductivity (EC5):	5.6	NA	mmhos/cm
Organic Matter:	58.8	39.1	%
Organic Carbon:	33.0	22.0	%
Ash:	41.2	27.5	%
C/N Ratio	18	18	ratio
AgIndex	4	4	ratio

_				
	Stability Indicator	:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/da	ay	4.2	
	mg CO ₂ -C/g TS/day	y	2.5	
	Stability Rating		moderately unstable	
	Maturity Indicator	: Cucum	ber Bioassay	
	Compost:Vermiculi	te (v:v)	1:2	
	Emergence (%)		93	
	Seedling Vigor (%)		118	
	Description of P	lants	healthy	
	Pathogens F	Results	Units	Rating
	Fecal Coliform	17	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 28 Mar. 1	19		
	Physical Contami	nants**	% by weight	
	Total Plastic		< 0.1	
ı	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	
	i Otal		~ 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	5000	-	mg/kg
Arsenic (As):	3.6	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	36	-	mg/kg
Cobalt (Co)	3.0	-	mg/kg
Copper (Cu):	30	1500	mg/kg
Iron (Fe):	7900	-	mg/kg
Lead (Pb):	11	300	mg/kg
Manganese (Mn):	220	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	8.4	75	mg/kg
Nickel (Ni):	13	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	110	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	3.6	
4.0 to 6.3	6.9	
2.0 to 4.0	13.3	
< 2.0	76.2	
** C == = + = = +	on Anone in size (Char	a a ma ata n than Onema)

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 28 Mar. 19 9030818 - 1/1 - 6671 Sample i.d. Public Compost

Mar19E No. 33 Sample I.d. No. 1/1 9030818 Group:

INTERPRETATION:

Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile		
4.2 mg CO2-C/	++++++++	+++++		
g OM/day	< Stable	> <moderately unstable=""> <</moderately>	Unstable	> < High For Mulch

Is Your Compost Mature?

AmmoniaN/NitrateN ratio			
57 Ratio	++++++++++++++++	++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	VeryMature> <	Mature	> < Immature
Ammonia N ppm			
380 mg/kg	+++++++++++++++	-+++++++++++++	++++++
dry wt.	VeryMature> <	Mature	> < Immature
Nitrate N ppm			
6.7 mg/kg	++++		
dry wt.	< Immature		> < Mature
pH value			
6.60 units	+++++++++++++++	+++++++++++++	++++++++++++++
	< Immature		> < Mature > < Immature
Cucumber Emergence			
93.3 percent		++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	< Immature		> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform		
< 1000 MPN/g dry wt.	+++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
	<safe (none="" detected)<="" th=""><th>> < High Salmonella Count(> 3 per 4 grams)</th></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)	
3.6 Percent	++++++++++++++++++++++++
dry wt.	<low> < Average > < High Nutrient Content</low>
AgIndex (Nutrients / Sodiun	and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
4 Ratio	+++++++++++++++++
	Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider
Plant Available Nitrogen (P/	N) Estimated release for first season
3 lbs/ton	++++++
wet wt.	Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>
C/N Ratio	
18 Ratio	+++++++++++++++++++++++++++++++++++++++
	< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
Soluble Available Nutrients	
5.6 mmhos/cm	+++++++++++++++++++++++++++++++++++++++
dry wt.	SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" td=""></high>
Lime Content (CaCO3)	
3.8 Lbs/ton	+++++
dry wt.	< Low > < Average > < High Lime Content (as CaCO3)

What are the physical properties of your compost?						
Percent Ash						
41.2 Percent	++++++++++	++++++++++++++	++++			
dry wt.	< High Organic	Matter > <	Average	> < High Ash Content		
Sieve Size % > 6.3 MM (0.25	Sieve Size % > 6.3 MM (0.25")					
3.6 Percent ++++++++++++++++++++++++++++++++++++						
dry wt.						
•						

Account No.: Date Received 28 Mar. 19 9030818 - 1/1 - 6671 Sample i.d. Public Compost

Group: Mar19E No. 33 Sample I.d. No. 1/1 9030818

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

4.2 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

57

Ammonia N	l ppm
380	mature
Nitrate N pp	om
6.7	immature
pH value	
6.60	mature
·	•

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.6 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 28 Mar. 19 9030818 - 1/1 - 6671 Sample i.d. Public Compost

Group: Mar19E No. 33 Sample I.d. No. 1/1 9030818

INTERPRETATION:

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AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

5.6 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

3.8 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

41.2 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

3.6 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
Plant Availab	le Nitrogen (PAN) calculations:	Estimated available nutrients for use when	n calculating application rates
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))			lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		·
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.1
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.50
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.01
Note: If C/N r	atio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	5.2
RR = R	espiration rate	Available Potassium (K2O)	15.2



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 9030642-1/1-6671 Group: Mar19D #26 Reporting Date: April 2, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 20 Mar. 19
Sample Identification: Silver 24-28
Sample ID #: 9030642 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.7	1.0	%
Ammonia (NH₄-N):	710	430	mg/kg
Nitrate (NO ₃ -N):	6.0	3.6	mg/kg
Org. Nitrogen (OrgN):	1.6	0.96	%
Phosphorus (as P ₂ O ₅):	0.61	0.37	%
Phosphorus (P):	2700	1600	mg/kg
Potassium (as K ₂ O):	1.2	0.70	%
Potassium (K):	9600	5800	mg/kg
Calcium (Ca):	1.8	1.1	%
Magnesium (Mg):	0.42	0.25	%
Sulfate (SO ₄ -S):	94	56	mg/kg
Boron (Total B):	24	15	mg/kg
Moisture:	0	39.7	%
Sodium (Na):	0.33	0.20	%
Chloride (CI):	0.60	0.36	%
pH Value:	NA	7.32	unit
Bulk Density :	23	38	lb/cu ft
Carbonates (CaCO ₃):	1.3	0.76	lb/ton
Conductivity (EC5):	6.5	NA	mmhos/cm
Organic Matter:	53.9	32.5	%
Organic Carbon:	23.0	14.0	%
Ash:	46.1	27.8	%
C/N Ratio	13	13	ratio
AgIndex	4	4	ratio
Motolo	Drywt	EDA Limit	unito

Stability Indicat	or:		
CO2 Evolution	CO2 Evolution		
mg CO ₂ -C/g OM	mg CO ₂ -C/g OM/day		
mg CO ₂ -C/g TS/	day	2.9	
Stability Ratin	g	moderately unstable	
Maturity Indicat	or: Cucum	ber Bioassay	
Compost:Vermic		1:2	
Emergence (%)		87	
Seedling Vigor (%)	96	
Description of	f Plants	healthy	
Pathogens	Results	Units	Rating
Fecal Coliform	< 7.5	MPN/g	pass
Salmonella	< 3	MPN/4g	pass
Date Tested: 20 Ma	r. 19		
Physical Contai	minants**	% by weight	
Total Plastic		< 0.1	
Film Plastic		< 0.1	
Glass		< 0.1	
Metal		< 0.1	
Sharps		ND	
Total		< 0.5	

Agilidex		7	Tallo
Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	5100	-	mg/kg
Arsenic (As):	3.2	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	13	-	mg/kg
Cobalt (Co)	3.5	-	mg/kg
Copper (Cu):	36	1500	mg/kg
Iron (Fe):	8100	-	mg/kg
Lead (Pb):	14	300	mg/kg
Manganese (Mn):	220	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.5	75	mg/kg
Nickel (Ni):	7.0	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	110	2800	ma/ka

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	1.3	
2.0 to 4.0	8.3	
< 2.0	90.4	
**Crooter the	n 1mm in aiza (Char	oc aroator than 2mm)

*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 20 Mar. 19 9030642 - 1/1 - 6671 Sample i.d. Silver 24-28

Mar19D No. 26 Sample I.d. No. 1/1 9030642 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

is four Co	<u>unipost Stable?</u>	-							
Respiration	on Rate		Biodegradation	n Rate of Your	Pile				
-	5.4 mg CO2-C/	+++++++++	+++++++++						
	g OM/day	< Stable	> <moderate< th=""><th>ely Unstable> <</th><th>Unstab</th><th>ole</th><th>> < Hi</th><th>igh For Mulch</th><th></th></moderate<>	ely Unstable> <	Unstab	ole	> < Hi	igh For Mulch	
Is Your Co	ompost Mature	<u>?</u>							
Ammonia	N/NitrateN ratio								
1	I20 Ratio	+++++++++	+++++++++	+++++++++	++++++++++	+++++++	++++	+++++++++	++++++++++
		VeryMature>	<	Mature			> <	Immature	
Ammonia	N ppm								
7	710 mg/kg	+++++++++	+++++++++	++++++++	++++++++++	+++++++	++++	+++++++++	++++++++++
	dry wt.	VeryMature>	<	Mature		> <	Imma	ature	
Nitrate N	ppm								
	6.0 mg/kg	++++							
	dry wt.	< Immature			> < Matu	re			
pH value									
7.	.32 units	+++++++++	+++++++++	++++++++	++++++++++	+++++++	++++		
		< Immature				> < Matu	ıre	> < Immatu	re
Cucumbe	r Emergence								
8	6.7 percent		+++++++++	+++++++++	++++++++++	+++++++			
		< Immature						> < Mature	
Is Your Co	ompost Safe Re	egarding Heal	th?						
	-	· g							
Fecal Coli									
< 10)00 MPN/g dry wt.								
		< Safe				> < High Fe	ecal Co	olitorm	
Salmonell		E							
Less tha	n 3 /4g dry wt.	++++++					., .		
		<safe (none<="" td=""><td>detected)</td><td></td><td>> < High Salm</td><td>ionella Cour</td><td>nt(> 3 p</td><td>er 4 grams)</td><td></td></safe>	detected)		> < High Salm	ionella Cour	nt(> 3 p	er 4 grams)	
Metals	US EPA 503								

++++++++

<All Metals Pass

Pass dry wt.

Does Your Compost Prov	ide Nutrients or Organic Matter?
Nutrients (N+P2O5+K2O)	
3.5 Percent	++++++++++++++++++++++++++
dry wt.	<low> < Average > < High Nutrient Content</low>
AgIndex (Nutrients / Sodium	n and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
4 Ratio	+++++++++++++++++++
	Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider
Plant Available Nitrogen (PA	AN) Estimated release for first season
3 lbs/ton	+++++++
wet wt.	Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>
C/N Ratio	
13 Ratio	+++++++++++++++++++++++++++++++++++++++
	< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
Soluble Available Nutrients	
6.5 mmhos/cm	+++++++++++++++++++++++++++++++++++++++
dry wt.	SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" td=""></high>
Lime Content (CaCO3)	r
1.3 Lbs/ton	++ Augusta Augusta North Lines Content (co. CoCO2)
dry wt.	< Low > < Average > < High Lime Content (as CaCO3)

>|< One or more Metals Fail

What are the physical properties of your compost?

what are the physical pro	spercies or your compos	olf_	
Percent Ash			
46.1 Percent	+++++++++++++++++++	+++++++++++++	
dry wt.	< High Organic Matter	> < Average	> < High Ash Content
Sieve Size % > 6.3 MM (0.25	5 <u>")</u>		
0.0 Percent	+		
dry wt.	All Uses > < Size N	May Restrict Uses for Potti	ng mix and Golf Courses

Account No.: Date Received 20 Mar. 19 9030642 - 1/1 - 6671 Sample i.d. Silver 24-28

Group: Mar19D No. 26 Sample I.d. No. 1/1 9030642

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

5.4 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

120

Ammonia N ppm					
710	immature				
Nitrate N ppm					
6.0	immature				
pH value					
7.32	mature				

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

86.7 Percent Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.5 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 20 Mar. 19 9030642 - 1/1 - 6671 Sample i.d. Silver 24-28

Group: Mar19D No. 26 Sample I.d. No. 1/1 9030642

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

- 13 Indicates maturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 6.5 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

1.3 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

46.1 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:	ole Nitrogen (PAN) calculations:	Estimated available nutrients for use when	o calculating application rates
Plant Available Nitrogen (PAN) calculations: PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		Estimated available flutherits for use when	lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	2.8
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.86
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.01
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	4.7
RR = F	Respiration rate	Available Potassium (K2O)	14.0

ANALYTICAL CHEMISTS
and
BACTERIOLOGISTS
Approved by State of California

SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 9030157-1/1-6671 Group: Mar19B #25 Reporting Date: March 20, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 06 Mar. 19
Sample Identification: Feedstock
Sample ID #: 9030157 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.2	0.66	%
Ammonia (NH ₄ -N):	120	65	mg/kg
Nitrate (NO ₃ -N):	2.3	1.2	mg/kg
Org. Nitrogen (OrgN):	1.2	0.64	%
Phosphorus (as P_2O_5):	0.38	0.20	%
Phosphorus (P):	1700	890	mg/kg
Potassium (as K ₂ O):	0.90	0.48	%
Potassium (K):	7400	4000	mg/kg
Calcium (Ca):	1.6	0.85	%
Magnesium (Mg):	0.34	0.18	%
Sulfate (SO ₄ -S):	240	130	mg/kg
Boron (Total B):	30	16	mg/kg
Moisture:	0	46.4	%
Sodium (Na):	0.16	0.086	%
Chloride (CI):	0.19	0.10	%
pH Value:	NA	6.64	unit
Bulk Density :	14	27	lb/cu ft
Carbonates (CaCO ₃):	<0.1	<0.1	lb/ton
Conductivity (EC5):	2.7	NA	mmhos/cm
Organic Matter:	72.8	39.0	%
Organic Carbon:	34.0	18.0	%
Ash:	27.2	14.6	%
C/N Ratio	27	27	ratio
AgIndex	7	7	ratio

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/	day	3.2	
	mg CO ₂ -C/g TS/d	lay	2.3	
	Stability Ratin	g	stable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermica		1:2	
	Emergence (%)	, ,	100	
	Seedling Vigor (%	6)	104	
	Description of	Plants	healthy	
	Pathogens	Results	Units	Rating
	Fecal Coliform	> 3700	MPN/g	fail
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 06 Ma	r. 19		
	Physical Contan	ninants**	% by weight	
	Total Plastic		< 0.1	
n	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

· ·3···-			
Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4000	-	mg/kg
Arsenic (As):	4.1	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	19	-	mg/kg
Cobalt (Co)	2.5	-	mg/kg
Copper (Cu):	26	1500	mg/kg
Iron (Fe):	5700	-	mg/kg
Lead (Pb):	9.1	300	mg/kg
Manganese (Mn):	180	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	4.4	75	mg/kg
Nickel (Ni):	5.9	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	95	2800	mg/kg

Size Distribu	ution
MM	% by weig
> 50	0.0
25 to 50	0.0
16 to 25	9.9
9.5 to 16	10.5
6.3 to 9.5	10.4
4.0 to 6.3	10.1
2.0 to 4.0	14.6
< 2.0	44.5
50 5 to 50 6 to 25 5 to 16 3 to 9.5 0 to 6.3 0 to 4.0 2.0	0.0 0.0 9.9 10.5 10.4 10.1 14.6

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 06 Mar. 19 9030157 - 1/1 - 6671 Sample i.d. Feedstock

Group: Mar19B No. 25 Sample I.d. No. 1/1 9030157

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate	Biode	egradation Rate of Your F	Pile		
3.2 mg CO2-C/ g OM/day	++++++++++ < Stable >I-	<moderately unstable=""> <</moderately>	Unstable	> < High For Mulch	
g Olvi/day	< Stable	Nioderately Oristable/	Ulistable	7 Tilgit For Mulcit	
Is Your Compost Mature	2				
	<u>-</u>				
AmmoniaN/NitrateN ratio 52 Ratio	++++++++++++	+++++++++++++++	+++++++++++++	++++++++++++++++++++	+++++
	VeryMature> <	Mature		> < Immature	
Ammonia N ppm	+++++++++++				
120 mg/kg dry wt.	VeryMature> <	Mature		>I< Immature	
Nitrate N ppm				<u>'</u>	
2.3 mg/kg	+ < Immature		Noture		
dry wt. pH value	< Immature		> < Mature		
6.64 units		++++++++++++++++			
Cusumban Emanusa	< Immature		> <	Mature > < Immature	
Cucumber Emergence 100.0 percent	++++++++++++	+++++++++++++++	+++++++++++++	-+++++++++++++++++++	++++
, , , , , , , , , , , , , , , , , , ,	< Immature			> < Mature	
Is Your Compost Safe Re	egarding Health?				
Fecal Coliform	.g				
> 1000 MPN/g dry wt.	++++++++++++	+++++++++++++++	++++++++++++	-++++++++++++++++++++++++++++++++++++++	++++
	< Safe		> < -	igh Fecal Coliform	
Salmonella Less than 3 /4g dry wt.	++++++				_
Less than 3 /4g dry wt.	<safe (none="" detec<="" td=""><td>eted)</td><td>> < High Salmonella</td><td>Count(> 3 per 4 grams)</td><td></td></safe>	eted)	> < High Salmonella	Count(> 3 per 4 grams)	
Metals US EPA 503					
Pass dry wt.	++++++++ <all metals="" pass<="" td=""><td></td><td>> < One or more Me</td><td>atale Fail</td><td></td></all>		> < One or more Me	atale Fail	
			- Chic of more with	rais i all	
Does Your Compost Pro	<u>vide Nutrients or C</u>	<u> Organic Matter?</u>			
Nutrients (N+P2O5+K2O)					
2.5 Percent dry wt.	++++++++++++++++++++++++++++++++++++++	Average	> < High Nutrien	Content	
AgIndex (Nutrients / Sodiu			N+P2O5+K2O) / (N		
7 Ratio	+++++++++++++	++++++++++++++++	++++	•	
Diana Assalla bis Nissa was (D		ient and Sodium and Chl		> < Nutrient Provider	
Plant Available Nitrogen (P 1 lbs/ton	'AN) Estim	nated release for first sea	son		_
wet wt.	Low Nitrogen Provide	der> < Average Nitro	ogen Provider	> <high nitrogen="" provider<="" td=""><td></td></high>	
C/N Ratio					
27 Ratio	< Nitrogen Release	> < N-Neutral > < N-De			
Soluble Available Nutrients					
2.7 mmhos/cm	++++++++++++				
dry wt. Lime Content (CaCO3)	SloRelease> < Ave	erage Nutrient Release R	ate > <high avai<="" td=""><td>lable Nutrients</td><td></td></high>	lable Nutrients	
0 Lbs/ton	+				
dry wt.	< Low > <	Average > < H	igh Lime Content (a	s CaCO3)	
What are the physical pro	operties of your co	ompost?			
Percent Ash					
27.2 Percent	++++++++++++				
dry wt.	< High Organic Ma	atter > < Avera	ge > ·	High Ash Content	
Sieve Size % > 6.3 MM (0.2) 30.8 Percent		+++++++++++++++	+++++++++++++	+++++++++++++++++++++++++++++++++++++++	+++++
dry wt.		< Size May Restrict Uses			

Account No.: Date Received 06 Mar. 19 9030157 - 1/1 - 6671 Sample i.d. Feedstock

Group: Mar19B No. 25 Sample I.d. No. 1/1 9030157

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

3.2 Low: Good for all uses mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

52

Ammonia N	ppm	
120	mature	
Nitrate N ppi	m	
2.3	immature	
pH value		
6.64	mature	

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

> 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

2.5 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 06 Mar. 19 9030157 - 1/1 - 6671 Sample i.d. Feedstock

Group: Mar19B No. 25 Sample I.d. No. 1/1 9030157

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

1 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

- Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 2.7 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

27.2 Low ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

30.8 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:	ole Nitrogen (PAN) calculations:	Estimated available nutrients for use when	a calculating application rates
	organic N)) + ((NH4-N) + (NO3-N))	Estimated available flutherits for use when	lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		(20,10.1 (2011000.)
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	1.4
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.13
	If RR > 10 then X = 0.4	Nitrate (NO3-N)	0.00
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	2.6
RR = F	Respiration rate	Available Potassium (K2O)	9.6



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 9010201-1/1-6671 Group: Jan19B #28 Reporting Date: January 24, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 09 Jan. 19
Sample Identification: White 16-21
Sample ID #: 9010201 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.9	1.3	%
Ammonia (NH ₄ -N):	810	560	mg/kg
Nitrate (NO ₃ -N):	5.6	3.9	mg/kg
Org. Nitrogen (OrgN):	1.8	1.3	%
Phosphorus (as P_2O_5):	0.55	0.38	%
Phosphorus (P):	2400	1700	mg/kg
Potassium (as K ₂ O):	1.0	0.70	%
Potassium (K):	8300	5800	mg/kg
Calcium (Ca):	1.8	1.2	%
Magnesium (Mg):	0.44	0.31	%
Sulfate (SO ₄ -S):	620	430	mg/kg
Boron (Total B):	32	22	mg/kg
Moisture:	0	30.5	%
Sodium (Na):	0.28	0.19	%
Chloride (CI):	0.49	0.34	%
pH Value:	NA	4.75	unit
Bulk Density :	27	38	lb/cu ft
Carbonates (CaCO ₃):	33	23	lb/ton
Conductivity (EC5):	8.3	NA	mmhos/cm
Organic Matter:	53.5	37.2	%
Organic Carbon:	28.0	19.0	%
Ash:	46.5	32.3	%
C/N Ratio	15	15	ratio
AgIndex	4	4	ratio

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/	'day	8.3	
	mg CO ₂ -C/g TS/d	day	4.4	
	Stability Ratin	g	unstable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermic		1:2	
	Emergence (%)	, ,	87	
	Seedling Vigor (%	6)	89	
	Description of	Plants	fungus	
	Pathogens	Results	Units	Rating
	Fecal Coliform	< 7.5	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 09 Jar	ı. 19		
	Physical Contar	ninants**	% by weight	
	Total Plastic		< 0.1	
n	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Aginuex	- +	- +	Tallo
Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4800	-	mg/kg
Arsenic (As):	2.9	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	13	-	mg/kg
Cobalt (Co)	2.6	-	mg/kg
Copper (Cu):	35	1500	mg/kg
Iron (Fe):	7100	-	mg/kg
Lead (Pb):	14	300	mg/kg
Manganese (Mn):	200	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.4	75	mg/kg
Nickel (Ni):	5.5	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	110	2800	mg/kg

Size Distribu	ıtion	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	0.9	
2.0 to 4.0	6.1	
< 2.0	93.0	
	MM > 50 25 to 50 16 to 25 9.5 to 16 6.3 to 9.5 4.0 to 6.3 2.0 to 4.0 < 2.0	> 50 0.0 25 to 50 0.0 16 to 25 0.0 9.5 to 16 0.0 6.3 to 9.5 0.0 4.0 to 6.3 0.9 2.0 to 4.0 6.1

*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 09 Jan. 19 9010201 - 1/1 - 6671 Sample i.d. White 16-21

Group: Jan19B No. 28 Sample I.d. No. 1/1 9010201

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile	1		
8.3 mg CO2-C/	+++++++	+++++++++++++++++++			
g OM/day	< Stable	> <moderately unstable=""> <</moderately>	Unstable	> < High For Mulch	

Is Your Compost Mature?

AmmoniaN/NitrateN ratio			
140 Ratio	++++++++++++++	++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	VeryMature> <	Mature	> < Immature
Ammonia N ppm			
810 mg/kg	++++++++++++++	++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
dry wt.	VeryMature> <	Mature	> < Immature
Nitrate N ppm			
5.6 mg/kg	++++		
dry wt.	< Immature		> < Mature
pH value			
4.75 units	+++++++++++++	+++++++++++++++	
	< Immature		> < Mature > < Immature
Cucumber Emergence			
86.7 percent	+++++++++++++	+++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	< Immature		> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform < 1000 MPN/g dry wt.	++++++ < Safe	> < High Fecal Coliform
Salmonella	· Gale	· · riigiri oodi oomorii
Less than 3 /4g dry wt.	+++++	
	<safe (none="" detected)<="" th=""><th>> < High Salmonella Count(> 3 per 4 grams)</th></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	++++++	
	<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail
Does Your Compost Prov	vide Nutrients or Organic Matter?	

<u>Does Your Compost Provide Nutrients or Organic Matter?</u>

Nutrients (N+P2O5+K2O)	
3.4 Percent	+++++++++++++++++++++++++++++++++++++++
dry wt.	<low> < Average > < High Nutrient Content</low>
AgIndex (Nutrients / Sodium	n and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
4 Ratio	+++++++++++++++++++++++++++++++++++++++
	Na & Cl > Nutrient and Sodium and Chloride Provider > Nutrient Provider
Plant Available Nitrogen (Pa	AN) Estimated release for first season
4 lbs/ton	++++++++
wet wt.	Low Nitrogen Provider> Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>
C/N Ratio	
15 Ratio	+++++++++++++++++++++++++++++++++++++++
	< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
Soluble Available Nutrients	& Salts (EC5 w/w dw)
8.3 mmhos/cm	+++++++
dry wt.	SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" td=""></high>
Lime Content (CaCO3)	
33 Lbs/ton	+++++++++++++++++++++++++++++++++++++++
dry wt.	< Low > < Average > < High Lime Content (as CaCO3)

What are the physical properties of your compost?

wnat are the physical pro	perties of your composi	<u>t/</u>	
Percent Ash			
46.5 Percent	+++++++++++++++++++	++++++++++++	
dry wt.	< High Organic Matter	> < Average	> < High Ash Content
Sieve Size % > 6.3 MM (0.25)	")		
0.0 Percent	+		
dry wt.	All Uses > < Size M	lay Restrict Uses for Potti	ng mix and Golf Courses

Account No.: Date Received 09 Jan. 19 9010201 - 1/1 - 6671 Sample i.d. White 16-21

Group: Jan19B No. 28 Sample I.d. No. 1/1 9010201

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

8.3 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

140

Ammonia N	ppm	
810	immature	
Nitrate N pp	m	
5.6	immature	
pH value		
4.75	immature	

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

86.7 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.4 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 09 Jan. 19 9010201 - 1/1 - 6671 Sample i.d. White 16-21

Group: Jan19B No. 28 Sample I.d. No. 1/1 9010201

INTERPRETATION: Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

4 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

8.3 High salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

33 High lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

46.5 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix: Plant Available Nitrogen (PAN) calculations:		Estimated available nutrients for use when	n calculating application rates
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		Estimated available mathematic for also when	lbs/ton (As Rcvd.)
X value = `	If RR < 2 then X = 0.1		,
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.6
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	1.12
	If RR > 10 then X = 0.4	Nitrate (NO3-N)	0.01
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	4.9
RR = F	Respiration rate	Available Potassium (K2O)	14.0



SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 9010202-1/1-6671 Group: Jan19B #29 Reporting Date: January 24, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 09 Jan. 19
Sample Identification: Blue 11-15
Sample ID #: 9010202 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.6	1.2	%
Ammonia (NH₄-N):	580	420	mg/kg
Nitrate (NO ₃ -N):	5.1	3.7	mg/kg
Org. Nitrogen (OrgN):	1.5	1.1	%
Phosphorus (as P_2O_5):	0.50	0.36	%
Phosphorus (P):	2200	1600	mg/kg
Potassium (as K ₂ O):	1.0	0.73	%
Potassium (K):	8300	6100	mg/kg
Calcium (Ca):	1.5	1.1	%
Magnesium (Mg):	0.34	0.25	%
Sulfate (SO ₄ -S):	480	350	mg/kg
Boron (Total B):	33	24	mg/kg
Moisture:	0	27.2	%
Sodium (Na):	0.28	0.21	%
Chloride (CI):	0.38	0.28	%
pH Value:	NA	5.26	unit
Bulk Density :	26	36	lb/cu ft
Carbonates (CaCO ₃):	0.65	0.47	lb/ton
Conductivity (EC5):	8.0	NA	mmhos/cm
Organic Matter:	54.6	39.8	%
Organic Carbon:	27.0	20.0	%
Ash:	45.4	33.0	%
C/N Ratio	17	17	ratio
AgIndex	5	5	ratio
B4 - 4 - 1 -	D	EDA Liii	!1 .

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/day		7.2	
	mg CO ₂ -C/g TS/o	day	3.9	
	Stability Ratin	g	moderately unstable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermic	ulite (v:v)	1:2	
	Emergence (%)		80	
	Seedling Vigor (9	6)	99	
	Description of	Plants	fungus	
	Pathogens	Results	Units	Rating
	Fecal Coliform	73	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 09 Jar	n. 19		
	Physical Contar	ninants**	% by weight	
	Total Plastic		< 0.1	
n	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	5200	-	mg/kg
Arsenic (As):	3.0	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	16	-	mg/kg
Cobalt (Co)	2.6	-	mg/kg
Copper (Cu):	25	1500	mg/kg
Iron (Fe):	8000	-	mg/kg
Lead (Pb):	14	300	mg/kg
Manganese (Mn):	180	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.8	75	mg/kg
Nickel (Ni):	6.1	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	91	2800	mg/kg

Size Distrib	Size Distribution				
MM	% by weight				
> 50	0.0				
25 to 50	0.0				
16 to 25	0.0				
9.5 to 16	0.0				
6.3 to 9.5	0.0				
4.0 to 6.3	1.3				
2.0 to 4.0	7.1				
< 2.0	91.6				
	n 1mm in size (Sharps are	ator than 2mm)			

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 09 Jan. 19 9010202 - 1/1 - 6671 Sample i.d. Blue 11-15

Jan19B No. 29 Sample I.d. No. 1/1 9010202 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile	!		
7.2 mg CO2-C/	+++++++	++++++++++++++			
g OM/day	< Stable	> <moderately unstable=""> <</moderately>	Unstable	> < High For Mulch	

Is Your Compost Mature?

AmmoniaN/NitrateN ratio			
110 Ratio	+++++++++++++++	++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	VeryMature> <	Mature	> < Immature
Ammonia N ppm			
580 mg/kg	++++++++++++++	++++++++++++++	+++++++
dry wt.	VeryMature> <	Mature	> < Immature
Nitrate N ppm			
5.1 mg/kg	++++		
dry wt.	< Immature		> < Mature
pH value			
5.26 units	+++++++++++++++	++++++++++++++	+++++
	< Immature		> < Mature > < Immature
Cucumber Emergence			
80.0 percent	+++++++++++++++	++++++++++++++	++++++
	< Immature		> < Mature
		·	

Is Your Compost Safe Regarding Health?

Fecal Coliform < 1000 MPN/g dry wt.	++++++ < Safe	>I< High Fecal Coliform
Salmonella	< Sale	7 Rigil Fecal Colliditi
Less than 3 /4g dry wt.	++++++	
Less than 3 /4g dry wt.	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503	(none detected)	Tright camerona count (o por 1 grame)
Pass dry wt.	+++++++	
	<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)			
3.1 Percent	+++++++++++++++	++++++	
dry wt.	<low> < A</low>	verage > < High Nutr	ient Content
AgIndex (Nutrients / Sodiun	n and Chloride Salts)	((N+P2O5+K2O) /	(Na + Cl))
5 Ratio	+++++++++++++++	++++++	
	Na & Cl > < Nutrie	nt and Sodium and Chloride Provider	> < Nutrient Provider
Plant Available Nitrogen (P.	AN) Estimat	ted release for first season	
3 lbs/ton	++++++++++		
wet wt.	Low Nitrogen Provide	r> < Average Nitrogen Provider	> <high nitrogen="" provider<="" th=""></high>
C/N Ratio			
17 Ratio		+++++++++++++	
		> < N-Neutral > < N-Demand> < High	Nitrogen Demand
Soluble Available Nutrients	& Salts (EC5 w/w dw)		
8.0 mmhos/cm		+++++++++++++++++++++++++++++++++++++++	
dry wt.	SloRelease> < Avera	age Nutrient Release Rate > <high a<="" th=""><th>Available Nutrients</th></high>	Available Nutrients
Lime Content (CaCO3)			
0.65 Lbs/ton	+		
dry wt.	< Low $>$	Average > < High Lime Conter	nt (as CaCO3)

vnat are the physical properties of your compost?					
Percent Ash					
45.4 Percent	++++++++++++++++++++++	+++++++++++			
dry wt.	< High Organic Matter	> < Average	> < High Ash Content		
Sieve Size % > 6.3 MM (0.25	")				
0.0 Percent	+				
dry wt.	All Uses > < Size M	May Restrict Uses for Pottin	g mix and Golf Courses		
•		•		·	

Account No.: Date Received 09 Jan. 19 9010202 - 1/1 - 6671 Sample i.d. Blue 11-15

Group: Jan19B No. 29 Sample I.d. No. 1/1 9010202

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

7.2 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

110

Ammonia N	ppm	
580	immature	
Nitrate N pp	m	
5.1	immature	
pH value		
5.26	immature	

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

80.0 Percent Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.1 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 09 Jan. 19 9010202 - 1/1 - 6671 Sample i.d. Blue 11-15

9010202 Sample I.d. No. 1/1 Group: Jan19B No. 29

INTERPRETATION: Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the Agindex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied. C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

0.65 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter 0.0 mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:		Estimate de la constituta de la constitu	
U ()		Estimated available nutrients for use where	0 11
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))			lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.2
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.84
	If RR > 10 then X = 0.4	Nitrate (NO3-N)	0.01
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	4.7
RR = F	Respiration rate	Available Potassium (K2O)	14.7

ANALYTICAL CHEMISTS and
BACTERIOLOGISTS
Approved by State of California

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com



Account #: 9010199-1/1-6671 Group: Jan19B #26 Reporting Date: January 24, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 09 Jan. 19 Sample Identification: Blue 6,8 Sample ID #: 9010199 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.7	1.2	%
Ammonia (NH ₄ -N):	570	410	mg/kg
Nitrate (NO ₃ -N):	6.1	4.4	mg/kg
Org. Nitrogen (OrgN):	1.6	1.2	%
Phosphorus (as P_2O_5):	0.65	0.47	%
Phosphorus (P):	2900	2100	mg/kg
Potassium (as K ₂ O):	1.1	0.78	%
Potassium (K):	9000	6500	mg/kg
Calcium (Ca):	1.6	1.2	%
Magnesium (Mg):	0.36	0.26	%
Sulfate (SO ₄ -S):	610	440	mg/kg
Boron (Total B):	28	20	mg/kg
Moisture:	0	28.0	%
Sodium (Na):	0.30	0.22	%
Chloride (CI):	0.43	0.31	%
pH Value:	NA	4.74	unit
Bulk Density:	25	35	lb/cu ft
Carbonates (CaCO ₃):	<0.1	<0.1	lb/ton
Conductivity (EC5):	7.9	NA	mmhos/cm
Organic Matter:	53.8	38.8	%
Organic Carbon:	26.0	18.0	%
Ash:	46.2	33.2	%
C/N Ratio	15	15	ratio
AgIndex	5	5	ratio

_						
	Stability Indicate	or:				
	CO2 Evolution		Respirometery			
	mg CO ₂ -C/g OM/day		7.2			
	mg CO ₂ -C/g TS/day		3.9			
	Stability Rating		moderately unstable			
	Maturity Indicator: Cucumber Bioassay					
	Compost:Vermica		1:2			
	Emergence (%)		80			
	Seedling Vigor (%)		75			
	Description of Plants		fungus			
			· · · · · · · · · · · · · · · · · · ·			
	Pathogens	Results	Units	Rating		
	Fecal Coliform	< 7.5	MPN/g	pass		
	Salmonella	< 3	MPN/4g	pass		
	Date Tested: 09 Jan	. 19				
	Physical Contaminants**		% by weight			
	Total Plastic		< 0.1			
1	Film Plastic		< 0.1			
	Glass		< 0.1			
	Metal		< 0.1			
	Sharps		ND			
	Total		< 0.5			

Aginuex	J	J	าสแบ
Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	5900	-	mg/kg
Arsenic (As):	2.9	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	11	-	mg/kg
Cobalt (Co)	3.0	-	mg/kg
Copper (Cu):	34	1500	mg/kg
Iron (Fe):	8200	-	mg/kg
Lead (Pb):	14	300	mg/kg
Manganese (Mn):	210	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.6	75	mg/kg
Nickel (Ni):	6.0	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	110	2800	mg/kg

Size Distribution				
% by weight				
0.0				
0.0				
0.0				
0.0				
0.1				
0.5				
5.7				
93.8				
ri				

Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 09 Jan. 19 9010199 - 1/1 - 6671 Sample i.d. Blue 6,8

Sample I.d. No. 1/1 9010199 Group: Jan19B No. 26

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate 7.2 mg CO2-C/	+++++++	Biodegradation Rate of Your Pi	le		
g OM/day	< Stable	> <moderately unstable=""> <</moderately>	Unstable	> < High For Mulch	
Is Your Compost Mature AmmoniaN/NitrateN ratio 93 Ratio	_	+++++++++++++++++++++++++++++++++++++++	******	*******	+++++
	VeryMature>	l< Mature		>l< Immature	

Mature

+++++++++++++++++++++++++++++++++++++

Nitrate N ppm

Ammonia N ppm

6.1 mg/kg

570 mg/kg dry wt.

dry wt.

pH value

4.74 units

Cucumber Emergence 80.0 percent

Immature >|< Mature >|< Immature < Immature

>|< Mature

Immature

> | < High Fecal Coliform

>|< High Ash Content

>|<High Nitrogen Provider

>|< High Salmonella Count(> 3 per 4 grams)

Is Your Compost Safe Regarding Health?

Fecal Coliform

Salmonella

Metals

< 1000 MPN/g dry wt. ++++++

< Safe

++++++

Less than 3 /4g dry wt.

US EPA 503

Pass dry wt.

VeryMature>|<

Immature

++++

<All Metals Pass

<Safe (none detected)

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)

3.4 Percent

dry wt. AgIndex (Nutrients / Sodium and Chloride Salts)

<Low >|< Average

>|< High Nutrient Content ((N+P2O5+K2O) / (Na + Cl))

>|< High Lime Content (as CaCO3)

> < One or more Metals Fail

5 Ratio

++++++++++++++++++++

Na & Cl > | Nutrient and Sodium and Chloride Provider >|< Nutrient Provider Estimated release for first season

Plant Available Nitrogen (PAN) 3 lbs/ton

15 Ratio

wet wt

Average Nitrogen Provider Low Nitrogen Provider>|<

+++++++++++++++++++++++++

< Nitrogen Release >|< N-Neutral >|< N-Demand>|< High Nitrogen Demand

Soluble Available Nutrients & Salts (EC5 w/w dw)

7.9 mmhos/cm

0 Lbs/ton

dry wt.

dry wt. Lime Content (CaCO3) Average

SloRelease>|< Average Nutrient Release Rate >|<High Available Nutrients

What are the physical properties of your compost?

< Low >|<

Percent Ash

C/N Ratio

46.2 Percent dry wt. High Organic Matter

Sieve Size $\% > 6.3 \text{ MM } (0.25^{"})$

0.1 Percent dry wt.

All Uses >|< Size May Restrict Uses for Potting mix and Golf Courses

Account No.: Date Received 09 Jan. 19 9010199 - 1/1 - 6671 Sample i.d. Blue 6,8

Group: Jan19B No. 26 Sample I.d. No. 1/1 9010199

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

7.2 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

93

Ammonia N ppm						
570	immature					
Nitrate N ppm						
6.1	immature					
pH value						
4.74	immature					

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

80.0 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.4 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 09 Jan. 19 9010199 - 1/1 - 6671 Sample i.d. Blue 6,8

Group: Jan19B No. 26 Sample I.d. No. 1/1 9010199

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

- Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 7.9 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

46.2 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.1 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
Plant Availab	le Nitrogen (PAN) calculations:	Estimated available nutrients for use when	n calculating application rates
PAN = (X * (c))	organic N)) + ((NH4-N) + (NO3-N))		lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.1
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.82
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.01
Note: If C/N r	atio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	6.1
RR = R	espiration rate	Available Potassium (K2O)	15.7

July 22, 2019

Mr. Bill Prinz Program Manager Solid Waste Local Enforcement Agency (LEA) 9601 Ridghaven Court, Suite 220, MS 1102B San Diego, CA 92123

Dear Mr. Prinz:

Reference: Quarterly Report-April through June, 2019

The City of San Diego's Environmental Services Department is submitting this report in compliance with the Self-Monitoring requirements in Compostable Materials Handling Facility Permit number 37-AB-0003 for the Miramar Greenery. The reporting period is for April through June 2019.

Attachment 1 reports the daily tonnage received by material type and number of vehicles using the site. Attachment 2 summarizes the Log of Special Occurrences, Load Check results and also includes quantities of "contaminants" hauled to the landfill. Attachment 3 summarizes the volume of product leaving the facility per month. Attachment 4 details soil testing for Feedstock analysis and pathogenic organisms, metals and contaminants as required by 14 CCR, Chapter 3.1, and Article 7.

If you have any questions or comments regarding this report, please feel free to contact me at (858) 492-6151 or Burton Ewert at (858) 627-3320.

Sincerely,

James Hay Senior Mechanical Engineer

JH/bce

Enclosures: Attachments 1-4

cc: Mario X. Sierra, Director, Environmental Services Department Hassan Yousef, Assistant Director, Environmental Services Department Renee Robertson, Deputy Director, Environmental Services Department Burton Ewert, Biologist III, Environmental Services Department

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

APRIL 2019

DATE	FOOD \	WASTE	FOOD WASTE MULTIPLE		GREENERY		WOOD WASTE		TOTALS	
DAIL	LOADS TONS		LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
04/01/2019	2	7	2	7	255	439	15	15	274	467.41
04/02/2019	7	28	1	3	196	366	15	10	219	406.8
04/03/2019	1	3	1	2	209	328	11	10	222	343.16
04/04/2019	6	16	1	8	193	269	10	8	210	300.77
04/05/2019	4	13	3	9	172	326	16	17	195	365.06
04/06/2019	3	12	1	2	347	276	5	5	356	294.51
04/08/2019	4	14	1	2	276	518	9	12	290	546.31
04/09/2019	7	26	2	11	209	374	11	10	229	419.86
04/10/2019	1	3	2	7	184	315	11	13	198	337.28
04/11/2019	4	15	1	1	182	232	8	10	195	257.48
04/12/2019	4	15	4	13	176	314	14	16	198	358.67
04/13/2019	2	6	1	2	334	275	14	15	351	297.97
04/15/2019	5	15	2	9	250	433	11	9	268	466.35
04/16/2019	7	29			211	390	16	15	234	434.58
04/17/2019	1	4	4	17	190	302	10	9	205	331.31
04/18/2019	6	14			191	297	17	17	214	327.17
04/19/2019	4	11	1	4	192	330	15	21	212	365.85
04/20/2019	4	14	1	3	279	228	11	13	295	257.62
04/22/2019	5	16	2	10	208	449	9	11	224	486.43
04/23/2019	6	22	2	5	195	343	8	10	211	380.1
04/24/2019	1	3	1	2	177	298	13	11	192	314.65
04/25/2019	5	19	1	1	198	256	17	20	221	296.765
04/26/2019	4	13	1	4	179	313	9	13	193	343.13
04/27/2019	4	15	1	3	326	282	14	13	345	313.16
04/29/2019	4	18	1	3	209	420	12	12	226	452.15
04/30/2019	7	31			121	269	9	10	137	310.59
Monthly Total	108	382	37	129	5659	8640	310	324	6114	9475.135

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

MAY 2019

			FOOD WASTE							
DATE	FOOD V	WASTE	MULTIPLE		GREE	NERY	WOOD WASTE		тот	ALS
DAIL	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF LOADS	TOTAL TONS
05/04/2040						289	13		181	
05/01/2019	1	3	2	7	165			14		313.27
05/02/2019	6	13	2	4	173	249	10	16	191	282.23
05/03/2019	5	19	2	8	195	306	10	11	212	343.91
05/04/2019	3	13	1	2	333	258	14	9	351	282.43
05/06/2019	4	16	1	3	240	461	9	9	254	488.67
05/07/2019	5	16	2	4	197	357	11	10	215	386.7
05/08/2019	2	4	3	12	189	346	3	3	197	365.07
05/09/2019	7	25	1	1	146	213	8	9	162	246.99
05/10/2019	4	12	2	9	176	297	7	9	189	326.75
05/11/2019	2	1	1	2	175	133	12	8	190	144.07
05/13/2019	5	16	1	3	206	396	11	11	223	426
05/14/2019	6	27	1	3	238	406	16	14	261	449.88
05/15/2019	1	3	2	8	198	336	5	10	206	356.79
05/16/2019	5	13	1	1	108	195	10	10	124	217.98
05/17/2019	5	16	3	14	203	309	10	9	221	346.67
05/18/2019	4	11	1	2	327	257	14	12	346	282.4
05/20/2019	4	20	1	3	145	363	12	13	162	398.67
05/21/2019	6	21	2	6	177	359	10	12	195	398.33
05/22/2019	2	7	3	11	155	285	10	13	170	315.74
05/23/2019	5	24	1	1	144	203	15	15	165	243.12
05/24/2019	4	14	2	7	245	368	11	12	262	400.29
05/25/2019	3	6	1	2	354	294	7	11	365	312.12
05/28/2019	8	33	2	15	265	473	11	10	286	530.87
05/29/2019	1	3	3	14	226	413	7	10	237	439.59
05/30/2019	5	20	1	1	185	307	17	22	208	349.41
05/31/2019	4	13			205	261	11	10	220	283.9
Monthly Total	107	368	42	141	5370	8132	274	291	5793	8931.85

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

JUNE 2019

	FOOD \	NASTE	FOOD \		GREE	NFRY	WOOD WASTE		TOTALS	
DATE									TOTAL # OF	
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TOTAL TONS
06/01/2019	4	13	1	1	345	402	5	4	355	420.005
06/03/2019	4	14	2	12	248	473	11	8	265	507.66
06/04/2019	4	8	2	5	189	322	8	5	203	340.64
06/05/2019	4	17	1	5	189	278	12	15	206	314.77
06/06/2019	6	24	1	0	173	214	8	8	188	246.32
06/07/2019	3	7	2	10	211	339	3	2	219	357.59
06/08/2019	2	7	1	2	339	296	10	9	352	314.12
06/10/2019	5	22	1	3	224	429	11	12	241	466.71
06/11/2019	7	26	2	9	196	340	9	8	214	383.41
06/12/2019	3	17	3	11	176	294	10	9	192	331.66
06/13/2019	4	17	2	3	192	231	5	4	203	255.92
06/14/2019	4	12	2	8	186	254	16	20	208	294.16
06/15/2019	6	16	1	2	353	281	18	17	378	314.42
06/17/2019	5	25	2	14	225	452	8	10	240	500.55
06/18/2019	5	15	1	2	210	347	8	17	224	381.18
06/19/2019	2	7	3	12	190	296	8	20	203	334.28
06/20/2019	7	27			218	277	11	8	236	312.36
06/21/2019	5	19	3	13	208	359	10	9	226	400.21
06/22/2019	2	5	1	2	344	264	10	9	357	280.05
06/24/2019	4	20	3	15	250	442	18	28	275	503.77
06/25/2019	6	19	1	3	211	392	9	11	227	425.2
06/26/2019	2	4	2	8	202	290	6	7	212	308.29
06/27/2019	7	10	1	1	193	259	15	24	216	293.17
06/28/2019	5	18	2	9	227	333	8	7	242	366.53
06/29/2019	3	7	2	5	348	285	16	13	369	310.03
Monthly Total	109	377	42	155	5847	8147	253	284	6251	8963.01
Sum:	324	1126	121	426	16876	24919	837	899	18158	27370

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

APRIL 2019							
DATE	SPECIAL						
	OCCURRENCES	COMMENTS	Tons of Contaminants Removed				
4/1/2019	NSO		0				
4/2/2019	NSO		0				
4/3/2019	NSO		9				
4/4/2019	NSO		0				
4/5/2019	NSO		12				
4/6/2019	NSO		0				
4/7/2019			0				
4/8/2019	NSO		0				
4/9/2019	NSO		0				
4/10/2019	NSO		18				
4/11/2019	NSO		0				
4/12/2019	NSO		9				
4/13/2019	NSO		0				
4/14/2019			0				
4/15/2019	NSO		0				
4/16/2019	NSO		12				
4/17/2019	NSO		0				
4/18/2019	NSO		0				
4/19/2019	NSO		15				
4/20/2019	NSO		0				
4/21/2019		Easter, Closed	0				
4/22/2019	NSO		9				
4/23/2019	NSO		0				
4/24/2019	NSO		0				
4/25/2019	NSO		18				
4/26/2019	NSO		0				
4/27/2019	NSO		9				
4/28/2019			0				
4/29/2019	NSO	Light Rain	0				
4/30/2019	NSO	Light Rain	0				
		Monthly Total	111				

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

MAY 2019						
DATE	SPECIAL					
	OCCURRENCES	COMMENTS	Tons of Contaminants Removed			
5/1/2019						
5/2/2019			<u>-</u>			
5/3/2019	NSO					
5/4/2019	NSO					
5/5/2019						
5/6/2019	NSO	Light Rain				
5/7/2019	NSO					
5/8/2019	NSO					
5/9/2019	NSO					
5/10/2019	NSO					
5/11/2019	NSO	Light Rain				
5/12/2019						
5/13/2019	NSO					
5/14/2019	NSO					
5/15/2019	NSO					
5/16/2019	NSO	Rain AM				
5/17/2019	NSO					
5/18/2019	NSO					
5/19/2019						
5/20/2019	NSO					
5/21/2019	NSO					
5/22/2019	NSO					
5/23/2019	NSO					
5/24/2019	NSO					
5/25/2019	NSO					
5/26/2019						
5/27/2019		Holiday, Closed				
5/28/2019	NSO					
5/29/2019	NSO	'				
5/30/2019						
5/31/2019						
2, 32, 2013		Monthly Total	1			

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

		JUNE 2019	
DATE	SPECIAL		
	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
6/1/2019	NSO		
6/2/2019			C
6/3/2019	NSO		18
6/4/2019	NSO		0
6/5/2019	NSO		0
6/6/2019	NSO		0
6/7/2019	NSO		0
6/8/2019	NSO		0
6/9/2019			0
6/10/2019	NSO		0
6/11/2019	NSO		15
6/12/2019	NSO		0
6/13/2019	NSO		6
6/14/2019	NSO		0
6/15/2019	NSO		0
6/16/2019			0
6/17/2019	NSO		18
6/18/2019	NSO		0
6/19/2019	NSO		0
6/20/2019	NSO		0
6/21/2019	NSO		0
6/22/2019	NSO		9
6/23/2019			0
6/24/2019	NSO		0
6/25/2019	NSO		0
6/26/2019	NSO		18
6/27/2019	NSO		0
6/28/2019	NSO		0
6/29/2019	NSO	Loader hit customer trailer during loading	12
6/30/2019			0
		Monthly Total	96

		Incom	ning Tons	S							Outgo	ing Yards			
Month/ Year	Clean Greens	Wood	X-Mas	Food	Drywall/ Animal	Total	Greens Trash	ADC	Miramar Slope Mulch	Other Internal Mulch	Other Internal Chips	Other Internal Compost		Sales (cubic	: yards)
			Trees	Waste	Bedding in FY11		tons	yards	yards	yards	yards	yards	ALL Mulch	Compost & Overs	All Woodchips
							FY08	Totals							
FY08 Totals	98,430	4,042	897	1,462	766	105,596	948	7,140	41,784	8,350	0	11,230	11,851	19,955	25,201
							FY09	Totals							
FY09 Totals	94,078	4,361	922	2,162	73	101,596	912	2,545	38,178	11,330	0	0	28,993	20,102	22,817
								Totals							
FY10 Totals	97,041	3,344	983	1,896	0	103,264	800	4,445	25,710	5,000	0	0	29,911	25,328	19,828
								Totals							
FY11 Totals	91,799	3,121	1,037	2,409	12	98,379	792	32,644	13,754	0	0	0	24,060	19,175	16,878
								Totals							
FY12 Totals	88,507	3,419	1,035	3,689	60	96,710	676	52,068	18,304	3,950	0	0	27,015	26,731	17,168
		1						Totals							
FY13 Totals	90,555	3,339	1,085	5,396	127	100,502	881	65,370	16,520	0	0	0	45,676	29,546	17,764
								Totals			•				
FY14 Totals	90,198	3,753	1,040	7,481	310	102,782	653	54,840	8,360	0	0	2,106	52,894	30,302	13,369
								Totals			•				
FY15 Totals	87,292	4,368	857	9,388	166	102,071	911	31,940	6,932	0	0	0	56,516	30,667	15,648
								Totals			•				
FY16 Totals	92,590	4,645	1,096	7,605	0	105,935	1,020	15,356	5,021	175	0	0	78,828	24,901	16,103
								Totals			•				
FY17 Totals	89,727	4,554	986	7,786	0	103,052	858	33,124	3,164	2,044	0	0	68,671	22,823	14,011
								Totals			•				
FY18 Totals	87,369	3,809	677	7,514	0	99,369	982	15,564	19,668	0	0	1,340	55,038	19,407	11,298
								Totals			1		15.	1 65-	
Jul-18	6980	312	0.41	641	0		96		-,					2321	804
Aug-17	7425	335	0.69	665	0		90	0	-,			_	4484	2310	1274
Sep-17	7069	238	0	628	0		93	0					5534	2435	123
Oct-17	7474	309	0.04	638	0		98	1008	504				5068	1592	314
Nov-17 Dec-17	6328 5832	227 294	0.61 156	569 493	0		90 91	352 0	0 560		_		3988 2562	485 770	283 347
Jec-17 Jan-18	5832 5986	294	505	493 488	0		113	896	2464				4351	987	581
Feb-18	5855	327	24	511	0		71	196	4508				1864	1322	293
Mar-18	7620	320	0	485	0		98	396	5156				4170	1325	638
Apr-18	8713	324	0	511	0		111	504	0				4264	1606	1245
May-18	8191	291	0		0		117	0	ŭ				3381	1427	1298
Jun-18	8183	284	0	532	0	8999	96	0		0	0		6040	946	604
FY19 Totals	85,656	3545	686.71	6,671	0	96,558	1164	3352	48,288	0	0	46500	50,007	17,526	7,804
	55,050	5575	000.71	0,011	J	30,330		000Z	70,200			70000	00,001	17,020	7,004

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SOIL CONTROL LAB



CODE: FS-compost Account #: 9050280-1/1-6671 Group: May19B #66 Reporting Date: May 23, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Feedstock Analysis

Date Received: 08 May. 19
Sample Identification: H1 Feedstock
Sample ID #: 9050280 - 1/1

Nutrients-Primary + Secondary	Units	as Received	Dry Weight
Total Nitrogen (N):		0.78	1.5
Organic Nitrogen (OrgN):	%	0.72	1.4
Ammonia (NH4-N):	%	0.062	0.12
Nitrate (NO3-N):	%	0.00054	0.0011
Phosphorus (as P2O5):	%	0.23	0.45
Potassium (as K2O):	%	0.55	1.1
Calcium (Ca):	%	0.71	1.4
Magnesium (Mg):	%	0.15	0.29
Sulfate (SO4):	%	0.08	0.16
C/N Ratio	Ratio	25	25
AgIndex	Ratio	4.1	4.1
Carbonates (as CaCO3)	lbs/ton	1.2	2.4
Moisture	%	49.8	0
Organic Matter:	%	38.2	76.1
Ash:	%	12.0	23.9
pH value	units	4.66	NA
Salts			
Sodium (Na):	%	0.15	0.31
Chloride (CI):	%	0.23	0.47
Electrical Conductivity (EC5):	mmhos/cm	4.7	9.4
Void Space	% v/v	NA	0.0
Bulk Density	g/cc (dry wt)	0.53	0.27
Void Space (> 4mm fraction):	% v/v	NA	42.5
Volume (> 4mm fraction):	% v/v	NA	62.1
Volume (< 4mm fraction):	% v/v	NA	55.0
Excess fines	% v/v	NA	12.5
Size			
Greater than 4 mm fraction:	% w/w	NA	37.5
Less than 4 mm fraction:	% w/w	NA	62.5
*Material Cost (\$ per unit)	\$		NA
*Availability (1=least to 5=most)	Rating		NA

^{*=}Information provided by client for formulation purpose.

Analyst: Assaf Sadeh

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SOIL CONTROL LAB



CODE: FS-compost Account #: 9060150-1/1-6671 Group: Jun19A #72 Reporting Date: June 27, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Feedstock Analysis

Date Received: 05 Jun. 19
Sample Identification: Heap 1- Phase 2
Sample ID #: 9060150 - 1/1

Nutrients-Primary + Secondary	Units	as Received	Dry Weight
Total Nitrogen (N):	<u></u> %	0.91	1.7
Organic Nitrogen (OrgN):	%	0.89	1.7
Ammonia (NH4-N):	%	0.023	0.043
Nitrate (NO3-N):	%	0.00016	0.0003
Phosphorus (as P2O5):	%	0.27	0.52
Potassium (as K2O):	%	0.58	1.1
Calcium (Ca):	%	0.90	1.7
Magnesium (Mg):	%	0.17	0.32
Sulfate (SO4):	%	0.03	0.056
C/N Ratio	Ratio	20	20
AgIndex	Ratio	7.3	7.3
Carbonates (as CaCO3)	lbs/ton	6.3	12
Moisture	%	46.3	0
Organic Matter:	%	37.1	69.1
Ash:	%	16.6	30.9
pH value	units	5.60	NA
Salts			
Sodium (Na):	%	0.12	0.23
Chloride (CI):	%	0.12	0.22
Electrical Conductivity (EC5):	mmhos/cm	NA	4.8
Void Space	% v/v	NA	0.0
Bulk Density	g/cc	0.42	0.22
Void Space (> 4mm fraction):	% v/v	NA	55.5
Volume (> 4mm fraction):	% v/v	NA	79.5
Volume (< 4mm fraction):	% v/v	NA	60.0
Excess fines	% v/v	NA	4.5
Size			
Greater than 4 mm fraction:	% w/w	NA	37.0
Less than 4 mm fraction:	% w/w	NA	63.0
*Material Cost (\$ per unit)	\$		NA
*Availability (1=least to 5=most)	Rating		NA

^{*=}Information provided by client for formulation purpose.

Analyst: Assaf Sadeh

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SOIL CONTROL LAB



CODE: FS-compost
Account #: 9060502-1/1-6671
Group: Jun19B #58
Reporting Date: July 4, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Feedstock Analysis

Date Received: 14 Jun. 19

Sample Identification: Heap 1 10/13/19 1015

Sample ID #: 9060502 - 1/1

Nutrients-Primary + Secondary	Units	as Received	Dry Weight
Total Nitrogen (N):	%	1.1	1.7
Organic Nitrogen (OrgN):	%	1.1	1.7
Ammonia (NH4-N):	%	0.031	0.047
Nitrate (NO3-N):	%	0.00057	0.00086
Phosphorus (as P2O5):	%	0.36	0.55
Potassium (as K2O):	%	0.79	1.2
Calcium (Ca):	%	1.1	1.6
Magnesium (Mg):	%	0.24	0.37
Sulfate (SO4):	%	0.067	0.1
C/N Ratio	Ratio	20	20
AgIndex	Ratio	4.9	4.9
Carbonates (as CaCO3)	lbs/ton	<0.01	<0.01
Moisture	%	33.2	0
Organic Matter:	%	46.0	68.9
Ash:	%	20.7	31.1
pH value	units	5.45	NA
Salts			
Sodium (Na):	%	0.20	0.30
Chloride (CI):	%	0.26	0.39
Electrical Conductivity (EC5):	mmhos/cm	NA	6.7
Void Space	% v/v	NA	3.3
Bulk Density	g/cc	0.43	0.29
Void Space (> 4mm fraction):	% v/v	NA	55.7
Volume (> 4mm fraction):	% v/v	NA	80.9
Volume (< 4mm fraction):	% v/v	NA	52.5
Voids left	% v/v	NA	3.3
Size			
Greater than 4 mm fraction:	% w/w	NA	45.1
Less than 4 mm fraction:	% w/w	NA	54.9
*Material Cost (\$ per unit)	\$		NA
*Availability (1=least to 5=most)	Rating		NA

^{*=}Information provided by client for formulation purpose.

Analyst: Assaf Sadeh

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SOIL CONTROL LAB



CODE: FS-compost
Account #: 9050281-1/1-6671
Group: May19B #67
Reporting Date: May 23, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Feedstock Analysis

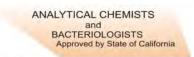
Date Received: 08 May. 19
Sample Identification: H2 Feedstock
Sample ID #: 9050281 - 1/1

Nutrients-Primary + Secondary	Units	as Received	Dry Weight
Total Nitrogen (N):	%	0.85	1.6
Organic Nitrogen (OrgN):	%	0.80	1.5
Ammonia (NH4-N):	%	0.051	0.096
Nitrate (NO3-N):	%	0.0005	0.00095
Phosphorus (as P2O5):	%	0.25	0.48
Potassium (as K2O):	%	0.65	1.2
Calcium (Ca):	%	0.77	1.4
Magnesium (Mg):	%	0.16	0.31
Sulfate (SO4):	%	0.08	0.15
C/N Ratio	Ratio	23	23
AgIndex	Ratio	4.7	4.7
Carbonates (as CaCO3)	lbs/ton	0.93	1.8
Moisture	%	46.8	0
Organic Matter:	%	39.0	73.4
Ash:	%	14.2	26.6
pH value	units	4.72	NA
Salts			
Sodium (Na):	%	0.15	0.28
Chloride (CI):	%	0.22	0.42
Electrical Conductivity (EC5):	mmhos/cm	4.6	8.6
Void Space	% v/v	NA	0.0
Bulk Density	g/cc (dry wt)	0.48	0.26
Void Space (> 4mm fraction):	% v/v	NA	28.6
Volume (> 4mm fraction):	% v/v	NA	43.3
Volume (< 4mm fraction):	% v/v	NA	70.2
Excess fines	% v/v	NA	41.6
Size			
Greater than 4 mm fraction:	% w/w	NA	28.0
Less than 4 mm fraction:	% w/w	NA	72.0
*Material Cost (\$ per unit)	\$		NA
*Availability (1=least to 5=most)	Rating		NA

^{*=}Information provided by client for formulation purpose.

Analyst: Assaf Sadeh

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SOIL CONTROL LAB

42 HANGAR WAY WATSONVILLE CALIFORNIA 95076 USA

CODE: FS-compost Account #: 9060152-1/1-6671 Group: Jun19A #73 Reporting Date: June 27, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Feedstock Analysis

Date Received: 05 Jun. 19
Sample Identification: Heap 2- Phase 2
Sample ID #: 9060152 - 1/1

Nutrients-Primary + Secondary	Units	as Received	Dry Weight
Total Nitrogen (N):	%	0.92	1.7
Organic Nitrogen (OrgN):	%	0.90	1.7
Ammonia (NH4-N):	%	0.018	0.033
Nitrate (NO3-N):	%	0.00014	0.00026
Phosphorus (as P2O5):	%	0.27	0.50
Potassium (as K2O):	%	0.65	1.2
Calcium (Ca):	%	0.81	1.5
Magnesium (Mg):	%	0.17	0.32
Sulfate (SO4):	%	0.048	0.089
C/N Ratio	Ratio	18	18
AgIndex	Ratio	5.3	5.3
Carbonates (as CaCO3)	lbs/ton	6.7	12
Moisture	%	46.4	0
Organic Matter:	%	36.0	67.1
Ash:	%	17.6	32.9
pH value	units	6.70	NA
Salts			
Sodium (Na):	%	0.14	0.27
Chloride (CI):	%	0.21	0.4
Electrical Conductivity (EC5):	mmhos/cm	NA	6.3
Void Space	% v/v	NA	0.0
Bulk Density	g/cc	0.40	0.21
Void Space (> 4mm fraction):	% v/v	NA	49.6
Volume (> 4mm fraction):	% v/v	NA	70.5
Volume (< 4mm fraction):	% v/v	NA	58.1
Excess fines	% v/v	NA	8.5
Size			
Greater than 4 mm fraction:	% w/w	NA	32.5
Less than 4 mm fraction:	% w/w	NA	67.5
*Material Cost (\$ per unit)	\$		NA
*Availability (1=least to 5=most)	Rating		NA

^{*=}Information provided by client for formulation purpose.

Analyst: Assaf Sadeh

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SOIL CONTROL LAB



CODE: FS-compost
Account #: 9060501-1/1-6671
Group: Jun19B #57
Reporting Date: July 4, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Feedstock Analysis

Date Received: 14 Jun. 19

Sample Identification: Heap 2 10/13/19 1000

Sample ID #: 9060501 - 1/1

Nutrients-Primary + Secondary	Units	as Received	Dry Weight
Total Nitrogen (N):	%	1.2	1.6
Organic Nitrogen (OrgN):	%	1.2	1.6
Ammonia (NH4-N):	%	0.027	0.035
Nitrate (NO3-N):	%	0.00041	0.00053
Phosphorus (as P2O5):	%	0.41	0.52
Potassium (as K2O):	%	0.92	1.2
Calcium (Ca):	%	1.2	1.5
Magnesium (Mg):	%	0.26	0.34
Sulfate (SO4):	%	0.076	0.098
C/N Ratio	Ratio	19	19
AgIndex	Ratio	4.9	4.9
Carbonates (as CaCO3)	lbs/ton	<0.01	<0.01
Moisture	%	22.2	0
Organic Matter:	%	51.6	66.3
Ash:	%	26.2	33.7
pH value	units	6.28	NA
Salts			
Sodium (Na):	%	0.21	0.27
Chloride (CI):	%	0.31	0.4
Electrical Conductivity (EC5):	mmhos/cm	NA	5.9
Void Space	% v/v	NA	6.9
Bulk Density	g/cc	0.37	0.29
Void Space (> 4mm fraction):	% v/v	NA	61.1
Volume (> 4mm fraction):	% v/v	NA	82.3
Volume (< 4mm fraction):	% v/v	NA	54.2
Voids left	% v/v	NA	6.9
Size			
Greater than 4 mm fraction:	% w/w	NA	42.5
Less than 4 mm fraction:	% w/w	NA	57.5
*Material Cost (\$ per unit)	\$		NA
*Availability (1=least to 5=most)	Rating		NA

^{*=}Information provided by client for formulation purpose.

Analyst: Assaf Sadeh

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SOIL CONTROL LAB



CODE: FS-compost
Account #: 9060344-1/1-6671
Group: Jun19B #56
Reporting Date: July 4, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Feedstock Analysis

Date Received: 11 Jun. 19
Sample Identification: Heap 28
Sample ID #: 9060344 - 1/1

Nutrients-Primary + Secondary	Units	as Received	Dry Weight
Total Nitrogen (N):	<u></u> %	0.90	1.5
Organic Nitrogen (OrgN):	%	0.86	1.4
Ammonia (NH4-N):	%	0.036	0.061
Nitrate (NO3-N):	%	0.00056	0.00093
Phosphorus (as P2O5):	%	0.30	0.50
Potassium (as K2O):	%	0.71	1.2
Calcium (Ca):	%	0.87	1.4
Magnesium (Mg):	%	0.19	0.32
Sulfate (SO4):	%	0.07	0.12
C/N Ratio	Ratio	24	24
AgIndex	Ratio	5.2	5.2
Carbonates (as CaCO3)	lbs/ton	2.8	4.7
Moisture	%	39.9	0
Organic Matter:	%	46.6	77.6
Ash:	%	13.4	22.4
pH value	units	4.78	NA
Salts			
Sodium (Na):	%	0.15	0.26
Chloride (CI):	%	0.22	0.36
Electrical Conductivity (EC5):	mmhos/cm	NA	8.1
Void Space	% v/v	NA	3.4
Bulk Density	g/cc	0.40	0.24
Void Space (> 4mm fraction):	% v/v	NA	58.6
Volume (> 4mm fraction):	% v/v	NA	80.5
Volume (< 4mm fraction):	% v/v	NA	55.2
Voids left	% v/v	NA	3.4
Size			
Greater than 4 mm fraction:	% w/w	NA	39.8
Less than 4 mm fraction:	% w/w	NA	60.2
*Material Cost (\$ per unit)	\$		NA
*Availability (1=least to 5=most)	Rating		NA

^{*=}Information provided by client for formulation purpose.

Analyst: Assaf Sadeh

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SOIL CONTROL LAB



CODE: FS-compost
Account #: 9060342-1/1-6671
Group: Jun19B #55
Reporting Date: July 4, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Feedstock Analysis

Date Received: 11 Jun. 19
Sample Identification: Heap 29
Sample ID #: 9060342 - 1/1

Nutrients-Primary + Secondary	Units	as Received	Dry Weight
Total Nitrogen (N):	%	0.95	1.7
Organic Nitrogen (OrgN):	%	0.92	1.6
Ammonia (NH4-N):	%	0.031	0.056
Nitrate (NO3-N):	%	0.00029	0.00053
Phosphorus (as P2O5):	%	0.30	0.52
Potassium (as K2O):	%	0.63	1.1
Calcium (Ca):	%	0.74	1.3
Magnesium (Mg):	%	0.17	0.31
Sulfate (SO4):	%	0.077	0.14
C/N Ratio	Ratio	21	21
AgIndex	Ratio	4.7	4.7
Carbonates (as CaCO3)	lbs/ton	2.4	4.3
Moisture	%	44.7	0
Organic Matter:	%	39.2	70.8
Ash:	%	16.1	29.2
pH value	units	5.33	NA
Salts			
Sodium (Na):	%	0.19	0.34
Chloride (CI):	%	0.21	0.38
Electrical Conductivity (EC5):	mmhos/cm	NA	7.8
Void Space	% v/v	NA	1.6
Bulk Density	g/cc	0.37	0.19
Void Space (> 4mm fraction):	% v/v	NA	53.2
Volume (> 4mm fraction):	% v/v	NA	74.5
Volume (< 4mm fraction):	% v/v	NA	51.6
Voids left	% v/v	NA	1.6
Size			
Greater than 4 mm fraction:	% w/w	NA	40.4
Less than 4 mm fraction:	% w/w	NA	59.6
*Material Cost (\$ per unit)	\$		NA
*Availability (1=least to 5=most)	Rating		NA

^{*=}Information provided by client for formulation purpose.

Analyst: Assaf Sadeh

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Date Sampled/Received: 27 Mar. 19 / 28 Mar. 19

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego CA 92123

Product Identification

Public Compost

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	6 <i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	Not reported	Not reported
Moisture Content	%, wet weight basis	33.4	
Organic Matter Content	%, dry weight basis	58.8	
pH	units	6.60	
Soluble Salts (electrical conductivity EC ₅)	dS/m (mmhos/cm)	5.6	
Particle Size or Sieve Size	maxium aggregate size, inches	0.38	
Stability Indicator (respirometry	")	•	Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day	4.2	Moderately Un-Stable
	mg CO ₂ -C/g TS/day	2.5	Widderatery On-Stable
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	93.3	
Relative Seedling Vigor	average % of control	118.3	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	D	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Mar19E	Laboratory Number: 9030818-1/1
Analyst: Assaf Sadeh	any Sole	www.compostlab.com



Date Sampled/Received: 27 Mar. 19 / 28 Mar. 19

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego

CA 92123

Product Identification

Public Compost

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	6 <i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	Total N	1.3	1.9
Phosphorus	P_2O_5	0.41	0.61
Potassium	K ₂ O	0.76	1.1
Calcium	Ca	1.3	2.0
Magnesium	Mg	0.27	0.41
Moisture Content	%, wet weight basis	33.4	
Organic Matter Content	%, dry weight basis	58.8	
рН	units	6.60	
Soluble Salts (electrical conductivity EC ₅)	dS/m (mmhos/cm)	5.6	
Particle Size or Sieve Size	% under 9.5 mm, dw basis	100.0	
Stability Indicator (respirometry	y)	•	Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day	4.2	- Moderately Un-Stable
	mg CO ₂ -C/g TS/day	2.5	Wioderatery On-Stable
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	93.3	
Relative Seedling Vigor	average % of control	118.3	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Desir	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Mar19E	Laboratory Number:	9030818-1/1
Analyst: Assaf Sadeh	any Solel	www.compostlab.com	



City of San Diego Environmental Services

Burton Ewert 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego CA 92123

Product Identifica	ation:
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Public Compost

Date Sampled/Received: 27 Mar. 19 / 28 Mar. 19

Coltrans

COMPOST TECHNICAL DATA SHEET for Caltrans

LABORATORY: Soil Control Lab, 42 Hangar Way, Watsonville, CA 95076 tel (831) 724-5422 fax (831) 724-3188 www.compostlab.com

Compost Parameters	Test Results	Reported as (units of measure)	TMECC Test
			Method
рН	6.60	Unitless	04.11-A 1:5 Slurry pH
Soluble Salts (electrical conductivity)	5.6	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method Mass Basis
Moisture content	33.4	%, wet weight basis	03.09-A - Total Solids and Moisture
Organic Matter Content	58.8	%, dry weight basis	05.07-A Loss-on-Ignition Organic Matter Method (LOI)
Maturity Indicator (bioassay)			
Percent Emergence	93.3	average % of control	05.05-A Germination and vigor
Relative Seedling Vigor	118.3	average % of control	
Stability Indicator	4.2	mg CO2-C/g OM/day	05.08-B Carbon Dioxide Evoultion Rate
Particle Size	100.0	%, dry weight passing through 9.5 mm	02.02-B Sample Sieving for Aggregate Size Classification
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.01-B Fecal coliforms
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.02 Samonella
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Total content
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Sharps content
Heavy Metals Content	Pass	PASS/FAIL: Per US EPA Class A 40 CFR 503.13, tables 1 and 3.	04.06-Heavy Metals standard, and Hazardous Elements

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org.

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality. or suitability for any particular use.

Laboratory Group:	Mar19E	Laboratory Number:	9030818-1/1
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Analyst: Assaf Sadeh

www.compostlab.com



SOIL CONTROL LAB



Account #: 9030818-1/1-6671 Group: Mar19E #33 Reporting Date: April 11, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 28 Mar. 19
Sample Identification: Public Compost
Sample ID #: 9030818 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.9	1.3	%
Ammonia (NH ₄ -N):	380	250	mg/kg
Nitrate (NO ₃ -N):	6.7	4.5	mg/kg
Org. Nitrogen (OrgN):	1.9	1.3	%
Phosphorus (as P_2O_5):	0.60	0.40	%
Phosphorus (P):	2700	1800	mg/kg
Potassium (as K ₂ O):	1.1	0.75	%
Potassium (K):	9400	6300	mg/kg
Calcium (Ca):	2.0	1.3	%
Magnesium (Mg):	0.41	0.27	%
Sulfate (SO ₄ -S):	340	230	mg/kg
Boron (Total B):	25	17	mg/kg
Moisture:	0	33.4	%
Sodium (Na):	0.35	0.23	%
Chloride (CI):	0.54	0.36	%
pH Value:	NA	6.60	unit
Bulk Density :	23	35	lb/cu ft
Carbonates (CaCO ₃):	3.8	2.5	lb/ton
Conductivity (EC5):	5.6	NA	mmhos/cm
Organic Matter:	58.8	39.1	%
Organic Carbon:	33.0	22.0	%
Ash:	41.2	27.5	%
C/N Ratio	18	18	ratio
AgIndex	4	4	ratio
B4 - 4 - 1 -	D		!4.

	Stability Indicator:			
	CO2 Evolution	Respir	rometery	
	mg CO ₂ -C/g OM/day	4	4.2	
	mg CO ₂ -C/g TS/day	2	2.5	
	Stability Rating	moderat	ely unstable	
	Maturity Indicator: C	ucumber Bio	oassay	
	Compost:Vermiculite (v:v)	1:2	
	Emergence (%)		93	
	Seedling Vigor (%)	1	18	
	Description of Plan	ts he	althy	
	Pathogens Res	ults U	Inits	Rating
	Fecal Coliform 1	7 MI	PN/g	pass
	Salmonella <	3 MF	PN/4g	pass
	Date Tested: 28 Mar. 19			
	Physical Contaminar	ı ts** % by	weight	
	Total Plastic	<	0.1	
ı	Film Plastic	<	0.1	
	Glass	<	0.1	
	Metal	<	0.1	
	Sharps	1	ND	
	Total	<	0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	5000	-	mg/kg
Arsenic (As):	3.6	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	36	-	mg/kg
Cobalt (Co)	3.0	-	mg/kg
Copper (Cu):	30	1500	mg/kg
Iron (Fe):	7900	-	mg/kg
Lead (Pb):	11	300	mg/kg
Manganese (Mn):	220	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	8.4	75	mg/kg
Nickel (Ni):	13	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	110	2800	mg/kg

Size Distribu	tion	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	3.6	
4.0 to 6.3	6.9	
2.0 to 4.0	13.3	
< 2.0	76.2	
	MM > 50 25 to 50 16 to 25 9.5 to 16 6.3 to 9.5 4.0 to 6.3 2.0 to 4.0	> 50 0.0 25 to 50 0.0 16 to 25 0.0 9.5 to 16 0.0 6.3 to 9.5 3.6 4.0 to 6.3 6.9 2.0 to 4.0 13.3

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 28 Mar. 19 Sample i.d. **Public Compost** 9030818 - 1/1 - 6671

Mar19E No. 33 Sample I.d. No. 1/1 9030818 Group:

INTERPRETATION:

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile	!		
4.2 mg CO2-C/	+++++++	+++++			
g OM/day	< Stable	> <moderately unstable=""> <</moderately>	Unstable	> < High For Mulch	

Page one of three

Is Your Compost Mature?

AmmoniaN/NitrateN ratio 57 Ratio VeryMature>|< Mature >|< Immature Ammonia N ppm **380** mg/kg dry wt. VeryMature>|< Mature >|< Immature Nitrate N ppm **6.7** mg/kg +++++ dry wt. >|< Mature Immature pH value **6.60** units Immature >|< Mature >|< Immature **Cucumber Emergence** 93.3 percent < Immature

Is Your Compost Safe Regarding Health?

Fecal Coliform		
< 1000 MPN/g dry wt.		
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
-	<all metals="" pass<="" td=""><td>> < One or more Metals Fail</td></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutriente (N. B205 : K20)	
Nutrients (N+P2O5+K2O)	+++++++++++++++++++++++++++++++++++++++
3.6 Percent	
dry wt.	<low> < Average > < High Nutrient Content</low>
AgIndex (Nutrients / Sodiur	n and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
4 Ratio	+++++++++++++++++++++++++++++++++++++++
	Na & Cl > Nutrient and Sodium and Chloride Provider > Nutrient Provider
Plant Available Nitrogen (P.	AN) Estimated release for first season
3 lbs/ton	+++++++
wet wt.	Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>
C/N Ratio	
18 Ratio	++++++
	< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
Soluble Available Nutrients	& Salts (EC5 w/w dw)
5.6 mmhos/cm	+++++++++++++++++++++++++++++++++++++++
dry wt.	SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" td=""></high>
Lime Content (CaCO3)	
3.8 Lbs/ton	+++++
dry wt.	< Low > < Average > < High Lime Content (as CaCO3)

What are the physical pro	operties of your comp	ost?		
Percent Ash				
41.2 Percent	++++++++++++++++++	++++++++++		
dry wt.	< High Organic Matter	> < Average	> < High Ash Content	
Sieve Size % > 6.3 MM (0.25	5")			
3.6 Percent	++++++++++++++++	++++++++		
dry wt.	All Uses > < Size	e May Restrict Uses for Potti	ng mix and Golf Courses	
•				

Account No.: Date Received 28 Mar. 19 9030818 - 1/1 - 6671 Sample i.d. Public Compost

Group: Mar19E No. 33 Sample I.d. No. 1/1 9030818

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

4.2 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

57

Ammonia N	ppm			
380	mature			
Nitrate N ppi	Nitrate N ppm			
6.7	immature			
pH value				
6.60	mature			

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.6 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 28 Mar. 19 9030818 - 1/1 - 6671 Sample i.d. Public Compost

Group: Mar19E No. 33 Sample I.d. No. 1/1 9030818

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

5.6 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

3.8 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

41.2 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

3.6 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
Plant Available Nitrogen (PAN) calculations:		Estimated available nutrients for use when	n calculating application rates
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))			lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		·
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.1
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.50
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.01
Note: If C/N r	atio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	5.2
RR = R	espiration rate	Available Potassium (K2O)	15.2



SOIL CONTROL LAB



Account #: 9040634-1/1-6671 Group: Apr19C #52 Reporting Date: May 2, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 19 Apr. 19
Sample Identification: Red 1-4 Compost
Sample ID #: 9040634 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.7	1.2	%
Ammonia (NH ₄ -N):	350	240	mg/kg
Nitrate (NO ₃ -N):	1.7	1.1	mg/kg
Org. Nitrogen (OrgN):	1.7	1.1	%
Phosphorus (as P ₂ O ₅):	0.65	0.44	%
Phosphorus (P):	2800	1900	mg/kg
Potassium (as K ₂ O):	1.2	0.80	%
Potassium (K):	9800	6700	mg/kg
Calcium (Ca):	2.0	1.3	%
Magnesium (Mg):	0.46	0.31	%
Sulfate (SO ₄ -S):	12	7.8	mg/kg
Boron (Total B):	28	19	mg/kg
Moisture:	0	32.4	%
Sodium (Na):	0.33	0.23	%
Chloride (CI):	0.45	0.30	%
pH Value:	NA	8.35	unit
Bulk Density:	26	38	lb/cu ft
Carbonates (CaCO ₃):	4.2	2.8	lb/ton
Conductivity (EC5):	4.4	NA	mmhos/cm
Organic Matter:	52.3	35.3	%
Organic Carbon:	26.0	18.0	%
Ash:	47.7	32.3	%
C/N Ratio	15	15	ratio
AgIndex	5	5	ratio

_				
	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/	day	4.5	
	mg CO ₂ -C/g TS/d	lay	2.3	
	Stability Ratin	g	moderately unstable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermica	ulite (v:v)	1:2	
	Emergence (%)		93	
	Seedling Vigor (%	6)	105	
	Description of	Plants	healthy	
	Pathogens	Results	Units	Rating
	Fecal Coliform	< 7.5	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 19 Apr	. 19		
	Physical Contar	ninants**	% by weight	
	Total Plastic		< 0.1	
ı	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	
	1000		٠٠.٥	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	5700	-	mg/kg
Arsenic (As):	3.6	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	18	-	mg/kg
Cobalt (Co)	3.7	-	mg/kg
Copper (Cu):	36	1500	mg/kg
Iron (Fe):	8500	-	mg/kg
Lead (Pb):	11	300	mg/kg
Manganese (Mn):	250	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.6	75	mg/kg
Nickel (Ni):	7.5	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	110	2800	mg/kg

Size Distrib	Size Distribution					
MM	% by weight					
> 50	0.0					
25 to 50	0.0					
16 to 25	0.0					
9.5 to 16	0.0					
6.3 to 9.5	0.0					
4.0 to 6.3	0.8					
2.0 to 4.0	5.6					
< 2.0	93.5					
4.0 to 6.3 2.0 to 4.0 < 2.0	0.8 5.6	ator than 2mm)				

*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 19 Apr. 19

9040634 - 1/1 - 6671 Sample i.d. Red 1-4 Compost Group: Apr19C No. 52 Sample I.d. No. 1/1 9040634

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate	-	Biodegradation Rate	of Your Pile			
4.5 mg CO2-C/	++++++++		Of Tour File			
g OM/day	< Stable	> < Moderately Unst	able> < l	Jnstable	> < High For Mulch	
Is Your Compost Mature	?					
AmmoniaN/NitrateN ratio	-					
210 Ratio	++++++++	+++++++++++++	+++++++++	++++++++	++++++++++++++++++++	+++++
ZIO Rado	VeryMature>				> < Immature	
Ammonia N ppm						
350 mg/kg dry wt.	VervMature>l	+++++++++++++++ < Mature			> < Immature	
Nitrate N ppm	verywature>	· Watur	6		Z \ IIIIIIature	
1.7 mg/kg	+					
dry wt.	< Immature		> <	Mature		
pH value 8.35 units	++++++++	+++++++++++++	+++++++++	++++++++	+++++++++++	
0.00 dinto	< Immature				Mature > < Immature	
Cucumber Emergence						
93.3 percent	++++++++++++++++++++++++++++++++++++++	++++++++++++++	+++++++++++	+++++++++	-+++++++++++++++++++++++++++++++++++++	
					> < Mature	
Is Your Compost Safe Re	egarding Heal	<u>th?</u>				
Fecal Coliform						
< 1000 MPN/g dry wt.						
Salmonella	< Safe			> < Hiç	h Fecal Coliform	
Less than 3 /4g dry wt.	++++++					
	<safe (none<="" td=""><td>detected)</td><td>> < Higl</td><td>n Salmonella (</td><td>Count(> 3 per 4 grams)</td><td></td></safe>	detected)	> < Higl	n Salmonella (Count(> 3 per 4 grams)	
Metals US EPA 503						
Pass dry wt.	+++++++ <all metals="" pa<="" td=""><td>225</td><td>>l<</td><td>e or more Met</td><td>als Fail</td><td></td></all>	225	>l<	e or more Met	als Fail	
				o or more we	are i ari	
Does Your Compost Pro	<u>vide Nutrients</u>	s or Organic Matte	<u>er?</u>			
Nutrients (N+P2O5+K2O)	-					
3.5 Percent		+++++++++++++++		Liada Nicetoia at	2 martin	
dry wt. AgIndex (Nutrients / Sodiu		> < Average		High Nutrient (5+K2O) / (Na		
5 Ratio		+++++++++	((14+20	5+N2O) / (Na	+ G())	
		Nutrient and Sodiur	m and Chloride P	rovider	> < Nutrient Provider	
Plant Available Nitrogen (P		Estimated release fo	r first season			
3 lbs/ton wet wt.	Low Nitrogen		erage Nitrogen Pr	ovider	> <high nitrogen="" provide<="" td=""><td>r</td></high>	r
C/N Ratio	Low Millogen	Flovidei> \ Ave	rage Millogen Fi	ovidei	PINIGII Nitiogen Provide	1
15 Ratio		++++++++++++++				
		lease > < N-Neutra	l > < N-Demand>	> < High Nitro	gen Demand	
Soluble Available Nutrients						
4.4 mmhos/cm dry wt.		+++++++++++ < Average Nutrient R	Release Rate	> <high availa<="" td=""><td>ble Nutrients</td><td></td></high>	ble Nutrients	
Lime Content (CaCO3)	2.0. (3/0003)			1g.i / tvalic		
4.2 Lbs/ton	+++++				0.000	
dry wt.	< Low > <	Average	> < High Lim	ne Content (as	CaCO3)	
What are the physical pro	operties of yo	ur compost?				
Percent Ash						
47.7 Percent		++++++++++++++				
dry wt.	< High Orgai	nic Matter > <	< Average	> <	High Ash Content	
Sieve Size % > 6.3 MM (0.2)	<u> </u>					

0.0 Percent

dry wt.

All Uses

>|< Size May Restrict Uses for Potting mix and Golf Courses

Account No.: Date Received 19 Apr. 19

9040634 - 1/1 - 6671 Sample i.d. Red 1-4 Compost Group: Apr19C No. 52 Sample I.d. No. 1/1 9040634

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

4.5 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

210

Ammonia N ppm						
350	mature					
Nitrate N ppm						
1.7	immature					
pH value						
8.35	immature					

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.5 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 19 Apr. 19

9040634 - 1/1 - 6671 Sample i.d. Red 1-4 Compost Group: Apr19C No. 52 Sample I.d. No. 1/1 9040634

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

- Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 4.4 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

4.2 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

47.7 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:	ole Nitrogen (PAN) calculations:	Estimated available nutrients for use when	o calculating application rates
Plant Available Nitrogen (PAN) calculations: PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		Estimated available nutrients for use when	lbs/ton (As Rcvd.)
X value = If RR < 2 then X = 0.1			.25,15 (5 1 (8 4)
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	2.8
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.48
	If RR > 10 then X = 0.4	Nitrate (NO3-N)	0.00
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	5.5
RR = F	Respiration rate	Available Potassium (K2O)	16.1



SOIL CONTROL LAB



Account #: 9040636-1/1-6671 Group: Apr19C #53 Reporting Date: May 2, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 19 Apr. 19
Sample Identification: Red 5-10 Compost
Sample ID #: 9040636 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.7	1.0	%
Ammonia (NH ₄ -N):	810	480	mg/kg
Nitrate (NO ₃ -N):	2.1	1.2	mg/kg
Org. Nitrogen (OrgN):	1.6	0.95	%
Phosphorus (as P ₂ O ₅):	0.60	0.35	%
Phosphorus (P):	2600	1600	mg/kg
Potassium (as K ₂ O):	0.98	0.58	%
Potassium (K):	8100	4800	mg/kg
Calcium (Ca):	1.8	1.1	%
Magnesium (Mg):	0.38	0.22	%
Sulfate (SO ₄ -S):	210	120	mg/kg
Boron (Total B):	29	17	mg/kg
Moisture:	0	40.8	%
Sodium (Na):	0.30	0.18	%
Chloride (CI):	0.42	0.25	%
pH Value:	NA	5.67	unit
Bulk Density :	22	37	lb/cu ft
Carbonates (CaCO ₃):	<0.1	<0.1	lb/ton
Conductivity (EC5):	7.2	NA	mmhos/cm
Organic Matter:	55.0	32.6	%
Organic Carbon:	27.0	16.0	%
Ash:	45.0	26.6	%
C/N Ratio	15	15	ratio
AgIndex	5	5	ratio

	Stability Indicator	:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/day		6.7	
	mg CO ₂ -C/g TS/da	ıy	3.7	
	Stability Rating		moderately unstable	
	Maturity Indicator	: Cucum	ber Bioassay	
	Compost:Vermicul		1:2	
	Emergence (%)	, ,	100	
	Seedling Vigor (%)		99	
	Description of F	Plants	mushroom	
	Pathogens	Results	Units	Rating
	Fecal Coliform	< 7.5	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 19 Apr.	19		
	Physical Contami	nants**	% by weight	
	Total Plastic		< 0.1	
ı	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Agilidex		<u> </u>	Tallo
Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4600	-	mg/kg
Arsenic (As):	2.9	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	11	-	mg/kg
Cobalt (Co)	3.1	-	mg/kg
Copper (Cu):	33	1500	mg/kg
Iron (Fe):	7500	-	mg/kg
Lead (Pb):	12	300	mg/kg
Manganese (Mn):	230	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.4	75	mg/kg
Nickel (Ni):	5.5	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	110	2800	ma/ka

Size Distrib	Size Distribution					
MM	% by weight					
> 50	0.0					
25 to 50	0.0					
16 to 25	0.0					
9.5 to 16	0.0					
6.3 to 9.5	0.0					
4.0 to 6.3	1.0					
2.0 to 4.0	8.5					
< 2.0	90.4					
	90.4	are star than 2mm				

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 19 Apr. 19

9040636 - 1/1 - 6671 Sample i.d. Red 5-10 Compost Group: Apr19C No. 53 Sample I.d. No. 1/1 9040636

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		radation Rate of Your Pil	е		
6.7 mg CO2-C/	+++++++++++++++		l lo stable	No. 1 Carlo Franchisto	
g OM/day	< Stable > <	Moderately Unstable> <	Unstable	> < High For Mulch	
Is Your Compost Mature	<u>?</u>				
AmmoniaN/NitrateN ratio					
390 Ratio	+++++++++++++	+++++++++++++++	++++++++++++	+++++++++++++++++++++++++++++++++++++++	++
555 7.555	VeryMature> <	Mature		> < Immature	
Ammonia N ppm					
810 mg/kg			++++++++++++	+++++++++++++++++++++++++++++++++++++++	+++
dry wt.	VeryMature> <	Mature		> < Immature	
Nitrate N ppm 2.1 mg/kg	_				_
dry wt.	< Immature		> < Mature		
pH value			1716.161		
5.67 units	+++++++++++++	++++++++++++++++	+++++++		
	< Immature		> <	Mature > < Immature	
Cucumber Emergence					
100.0 percent		++++++++++++++++	++++++++++++	++++++++++++++++++++++++++++++++++++++	++
	< Immature			> < Mature	
Is Your Compost Safe Re	garding Health?				
Fecal Coliform					
< 1000 MPN/g dry wt.	++++++				\neg
1 1000 IIII 1 III g ary III.	< Safe		> < Hig	gh Fecal Coliform	
Salmonella					
Less than 3 /4g dry wt.	++++++				
	<safe (none="" detected<="" td=""><td>ed) ></td><td>< High Salmonella (</td><td>Count(> 3 per 4 grams)</td><td></td></safe>	ed) >	< High Salmonella (Count(> 3 per 4 grams)	
Metals US EPA 503	+++++++				—
Pass dry wt.	<all metals="" pass<="" td=""><td>></td><td> < One or more Met</td><td>als Fail</td><td></td></all>	>	< One or more Met	als Fail	
			1 - One of more wee	aro i ari	
Does Your Compost Prov	<u>vide Nutrients or Or</u>	ganic Matter?			
Nutrients (N+P2O5+K2O)					
3.3 Percent	+++++++++++++	+++++++			
dry wt.	<low> < A</low>	verage	> < High Nutrient	Content	
AgIndex (Nutrients / Sodiu	m and Chloride Salts)	((N	+P2O5+K2O) / (Na	+ CI))	
5 Ratio	+++++++++++++				
		ent and Sodium and Chlo		> < Nutrient Provider	
Plant Available Nitrogen (P		ted release for first seaso	on		
3 lbs/ton	+++++++++	A Althor	· · · · · · · · · · · · · · · · · · ·	A Lattick Nitron on Describer	_
wet wt. C/N Ratio	Low Nitrogen Provide	er> < Average Nitro	jen Provider	> <high nitrogen="" provider<="" td=""><td></td></high>	
15 Ratio	+++++++++++++	++++++++++			-1
10 Italio		> < N-Neutral > < N-Der	nand> < High Nitro	gen Demand	
Soluble Available Nutrients				-	
7.2 mmhos/cm	+++++++++++++	++++++++++++++++	++		
dry wt.	SloRelease> < Avera	age Nutrient Release Ra	te > <high availa<="" td=""><td>able Nutrients</td><td></td></high>	able Nutrients	
Lime Content (CaCO3)					
0 Lbs/ton	+	Average No No	h Lima Cantant (aa	CaCO3)	
dry wt.	< Low > <	Average > < Hig	h Lime Content (as	(CaCOS)	
What are the physical pro	operties of your cor	npost?			
Percent Ash					
45.0 Percent	+++++++++++++	++++++++++++	•		_
dry wt.	< High Organic Mat			High Ash Content	
Sieve Size % > 6.3 MM (0.2			<u> </u>		
0.0 Percent	+				
dry wt.	All Uses > <	Size May Restrict Uses f	or Potting mix and C	Golf Courses	

Account No.: Date Received 19 Apr. 19

9040636 - 1/1 - 6671 Sample i.d. Red 5-10 Compost Group: Apr19C No. 53 Sample I.d. No. 1/1 9040636

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

6.7 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

390

Ammonia N ppm					
810	immature				
Nitrate N ppm					
2.1	immature				
pH value					
5.67	immature				
·	•				

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0 Percent Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.3 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 19 Apr. 19

9040636 - 1/1 - 6671 Sample i.d. Red 5-10 Compost Group: Apr19C No. 53 Sample I.d. No. 1/1 9040636

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

- Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 7.2 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

45.0 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix: Plant Available Nitrogen (PAN) calculations:		Estimated available nutrients for use when calculating application rates	
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		Estimated available nutrients for use when	lbs/ton (As Rcvd.)
X value = `	If RR < 2 then X = 0.1		,
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	2.9
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.96
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.00
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	4.7
RR = F	Respiration rate	Available Potassium (K2O)	11.6



SOIL CONTROL LAB



Account #: 9040633-1/1-6671 Group: Apr19C #51 Reporting Date: May 2, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 19 Apr. 19

Sample Identification: Red 11-15 Compost Sample ID #: 9040633 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.6	1.0	%
Ammonia (NH ₄ -N):	480	310	mg/kg
Nitrate (NO ₃ -N):	2.9	1.9	mg/kg
Org. Nitrogen (OrgN):	1.6	1.0	%
Phosphorus (as P_2O_5):	0.54	0.34	%
Phosphorus (P):	2400	1500	mg/kg
Potassium (as K ₂ O):	0.97	0.63	%
Potassium (K):	8100	5200	mg/kg
Calcium (Ca):	1.9	1.2	%
Magnesium (Mg):	0.40	0.26	%
Sulfate (SO ₄ -S):	120	78	mg/kg
Boron (Total B):	32	20	mg/kg
Moisture:	0	35.6	%
Sodium (Na):	0.26	0.17	%
Chloride (CI):	0.36	0.23	%
pH Value:	NA	6.44	unit
Bulk Density :	23	36	lb/cu ft
Carbonates (CaCO ₃):	3.4	2.2	lb/ton
Conductivity (EC5):	5.2	NA	mmhos/cm
Organic Matter:	55.1	35.5	%
Organic Carbon:	28.0	18.0	%
Ash:	44.9	28.9	%
C/N Ratio	17	17	ratio
AgIndex	5	5	ratio
Motolo	Dryvet	EDA Limit	unito

Stability Indicator:	
CO2 Evolution	Respirometery
mg CO ₂ -C/g OM/day	4.7
mg CO ₂ -C/g TS/day	2.6
Stability Rating	moderately unstable
Maturity Indicator: Cuc	umber Bioassay
Compost:Vermiculite (v:	v) 1:2
Emergence (%)	87
Seedling Vigor (%)	110
Description of Plants	healthy
Pathogens Result	<u> </u>
Fecal Coliform < 7.5	o ,
Salmonella < 3	MPN/4g pass
Date Tested: 19 Apr. 19	
Physical Contaminants	** % by weight
Total Plastic	< 0.1
Film Plastic	< 0.1
Glass	< 0.1
Metal	< 0.1
Sharps	ND
Total	< 0.5

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4700	-	mg/kg
Arsenic (As):	3.0	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	13	-	mg/kg
Cobalt (Co)	3.2	-	mg/kg
Copper (Cu):	29	1500	mg/kg
Iron (Fe):	7500	-	mg/kg
Lead (Pb):	12	300	mg/kg
Manganese (Mn):	250	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.4	75	mg/kg
Nickel (Ni):	5.9	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	110	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	1.3	
2.0 to 4.0	6.5	
< 2.0	92.2	
**Crooter the	na Amana in aima (Ch	arna greater than 2mm)

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 19 Apr. 19

9040633 - 1/1 - 6671 Sample i.d. Red 11-15 Compost Apr19C No. 51 Sample I.d. No. 1/1 9040633 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile			
4.7 mg CO2-C/	++++++++++				
g OM/day	< Stable	> < Moderately Unstable> <	Unstable	> < High For Mulch	
	'				
Is Vour Compost Matura	2				

Is Your Compost Mature?

AmmoniaN/NitrateN ratio					
170 Ratio	+++++				
	VeryMature> <	Mature	>	· < Immature	
Ammonia N ppm					
480 mg/kg	+++++++++++++++	++++++++++++++++++	+++++++++++++++		
dry wt.	VeryMature> <	Mature	> <	Immature	
Nitrate N ppm					
2.9 mg/kg	++				
dry wt.	< Immature	>	· < Mature		
pH value					
6.44 units	++++++				
	< Immature		> < Mature	> < Immature	
Cucumber Emergence					
86.7 percent ++++++++++++++++++++++++++++++++++++				+++++++++++	
	< Immature			> < Mature	

Is Your Compost Safe Regarding Health?

Fecal Coliform < 1000 MPN/g dry wt.	++++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	1.0
	<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

ide Nutrients of Organic Matter?				
++++++++++++++++++++				
<low> < Average > < High Nutrient Content</low>				
n and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))				
+++++++++++++++++++++++++++++++++++++++				
Na & Cl > Nutrient and Sodium and Chloride Provider > Nutrient Provider				
AN) Estimated release for first season				
+++++++				
Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>				
+++++++++++++++++++++++++++++++++++++++				
< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand				
& Salts (EC5 w/w dw)				
++++++				
SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" td=""></high>				
++++				
< Low > < Average > < High Lime Content (as CaCO3)				

И

What are the physical pro	perties of your compos	<u>st?</u>			
Percent Ash					
44.9 Percent	+++++++++++++++++++++	++++++++++++			
dry wt.	< High Organic Matter	> < Average	> < High Ash Content		
Sieve Size % > 6.3 MM (0.25	")				
0.0 Percent	+				
dry wt.	All Uses > < Size May Restrict Uses for Potting mix and Golf Courses				
•					

Account No.: Date Received 19 Apr. 19

9040633 - 1/1 - 6671 Sample i.d. Red 11-15 Compost Group: Apr19C No. 51 Sample I.d. No. 1/1 9040633

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

4.7 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

170

Ammonia N p	opm
480	mature
Nitrate N ppn	n
2.9	immature
pH value	
6.44	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

86.7 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.1 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 19 Apr. 19

9040633 - 1/1 - 6671 Sample i.d. Red 11-15 Compost Group: Apr19C No. 51 Sample I.d. No. 1/1 9040633

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

- 17 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 5.2 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

3.4 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

44.9 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:	ole Nitrogen (DAN) calculations:	Estimated available nutrients for use wher	a colculating application rates
Plant Available Nitrogen (PAN) calculations: PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		Estimated available nutrients for use when	lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		ibarton (Aa Nevu.)
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	2.6
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.62
	If RR > 10 then X = 0.4	Nitrate (NO3-N)	0.00
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	4.4
RR = F	Respiration rate	Available Potassium (K2O)	12.5



TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

SOIL CONTROL LAB



Account #: 9050730-1/1-6671 Group: May19D #18 Reporting Date: June 4, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 23 May. 19
Sample Identification: Green 1-5
Sample ID #: 9050730 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.5	1.1	%
Ammonia (NH ₄ -N):	370	270	mg/kg
Nitrate (NO ₃ -N):	5.7	4.2	mg/kg
Org. Nitrogen (OrgN):	1.5	1.1	%
Phosphorus (as P_2O_5):	0.50	0.36	%
Phosphorus (P):	2200	1600	mg/kg
Potassium (as K ₂ O):	0.96	0.70	%
Potassium (K):	8000	5800	mg/kg
Calcium (Ca):	1.7	1.2	%
Magnesium (Mg):	0.37	0.27	%
Sulfate (SO ₄ -S):	200	140	mg/kg
Boron (Total B):	29	22	mg/kg
Moisture:	0	26.5	%
Sodium (Na):	0.24	0.18	%
Chloride (CI):	0.35	0.26	%
pH Value:	NA	5.98	unit
Bulk Density:	25	34	lb/cu ft
Carbonates (CaCO ₃):	7.9	5.8	lb/ton
Conductivity (EC5):	4.5	NA	mmhos/cm
Organic Matter:	52.7	38.7	%
Organic Carbon:	26.0	19.0	%
Ash:	47.3	34.7	%
C/N Ratio	17	17	ratio
AgIndex	5	5	ratio

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/day		5.9	
	mg CO ₂ -C/g TS/d	lay	3.1	
	Stability Rating	9	moderately unstable	
	Maturity Indicate	r: Cucum	ber Bioassay	
	Compost:Vermicu		1:2	
	Emergence (%)		93	
	Seedling Vigor (%	b)	107	
	Description of	Plants	healthy	
	Pathogens		Units	Rating
	Fecal Coliform	< 7.5	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 23 May	/. 19		
	Physical Contan	ninants**	% by weight	
	Total Plastic		< 0.1	
ı	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

, .g			
Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4400	-	mg/kg
Arsenic (As):	4.5	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	16	-	mg/kg
Cobalt (Co)	3.0	-	mg/kg
Copper (Cu):	28	1500	mg/kg
Iron (Fe):	7700	-	mg/kg
Lead (Pb):	12	300	mg/kg
Manganese (Mn):	220	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.7	75	mg/kg
Nickel (Ni):	6.0	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	100	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.1	
4.0 to 6.3	1.2	
2.0 to 4.0	6.3	
< 2.0	92.4	
		rno graater than 2mm)

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 23 May. 19 9050730 - 1/1 - 6671 Sample i.d. Green 1-5

May19D No. 18 Sample I.d. No. 1/1 9050730 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile	!	
5.9 mg CO2-C/	+++++++	+++++++++++		
g OM/day	< Stable	> <moderately unstable=""> <</moderately>	Unstable	> < High For Mulch

Is Your Compost Mature?

AmmoniaN/NitrateN ratio							
65 Ratio							
	VeryMature> <	Mature	> <	Immature			
Ammonia N ppm							
370 mg/kg	+++++++++++++++	++++++++++++++	++++++				
dry wt.	VeryMature> <	Mature	> < lmm	ature			
Nitrate N ppm							
5.7 mg/kg	++++						
dry wt.	< Immature		> < Mature				
pH value							
5.98 units	+++++++++++++++	+++++++++++++	+++++++++++				
	< Immature		> < Mature	> < Immature			
Cucumber Emergence							
93.3 percent	++++++++++++++	++++++++++++++	++++++++++++	++++++++++++			
	< Immature			> < Mature			

Is Your Compost Safe Regarding Health?

Fecal Coliform < 1000 MPN/g dry wt.	++++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)					
3.0 Percent	++++++++	+++++++++++	++		
dry wt.	<low< th=""><th>> < Average</th><th></th><th>> < High Nutri</th><th>ent Content</th></low<>	> < Average		> < High Nutri	ent Content
AgIndex (Nutrients / Sodium	and Chloric	le Salts)	((N	+P2O5+K2O)/	(Na + CI))
5 Ratio	++++++++	+++++++++++	++++		
	Na & Cl >	< Nutrient and \$	Sodium and Chlo	ride Provider	> < Nutrient Provider
Plant Available Nitrogen (PA	N)	Estimated rele	ase for first seaso	n	
3 lbs/ton	++++++++	+			
wet wt.	Low Nitroge	n Provider> <	Average Nitrog	en Provider	> <high nitrogen="" provider<="" td=""></high>
C/N Ratio					
17 Ratio		++++++++++			
	< Nitrogen R	telease > < N-1	Neutral > < N-Der	nand> < High N	Nitrogen Demand
Soluble Available Nutrients	& Salts (EC5	w/w dw)			
4.5 mmhos/cm		+++++++++++			
,	SloRelease>	· < Average Nut	rient Release Rat	e > <high a<="" td=""><td>vailable Nutrients</td></high>	vailable Nutrients
Lime Content (CaCO3)					
7.9 Lbs/ton	++++++++				
dry wt.	< Low > <	Average	e > < Hig	h Lime Content	t (as CaCO3)

И

What are the physical properties of your compost?							
Percent Ash							
47.3 Percent	+++++++++++	+++++++++++++	+++++++				
dry wt.	< High Organic	Matter > <	Average	> < High Ash Content			
Sieve Size % > 6.3 MM (0.25)	")						
0.1 Percent	+						
dry wt.	All Uses	All Uses > < Size May Restrict Uses for Potting mix and Golf Courses					
•	•						

Account No.: Date Received 23 May. 19 9050730 - 1/1 - 6671 Sample i.d. Green 1-5

Group: May19D No. 18 Sample I.d. No. 1/1 9050730

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

5.9 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

65

Ammonia N	ppm	
370	mature	
Nitrate N ppr	n	
5.7	immature	
pH value		
5.98	immature	

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.0 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 23 May. 19 9050730 - 1/1 - 6671 Sample i.d. Green 1-5

Group: May19D No. 18 Sample I.d. No. 1/1 9050730

INTERPRETATION: Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

17 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

4.5 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

7.9 Average lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

47.3 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.1 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
Plant Available Nitrogen (PAN) calculations:		Estimated available nutrients for use when calculating application rates	
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))			lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	2.7
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.54
If RR > 10 then $X = 0.4$		Nitrate (NO3-N)	0.01
Note: If C/N ratio > 15 additional N should be applied.		Available Phosphorus (P2O5*0.64)	4.7
RR = R	espiration rate	Available Potassium (K2O)	14.0



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SOIL CONTROL LAB



Account #: 9050731-1/1-6671 Group: May19D #19 Reporting Date: June 4, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 23 May. 19
Sample Identification: Green 6-10
Sample ID #: 9050731 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.4	1.0	%
Ammonia (NH₄-N):	400	290	mg/kg
Nitrate (NO ₃ -N):	12	8.3	mg/kg
Org. Nitrogen (OrgN):	1.4	1.0	%
Phosphorus (as P_2O_5):	0.49	0.35	%
Phosphorus (P):	2200	1600	mg/kg
Potassium (as K ₂ O):	0.96	0.69	%
Potassium (K):	8000	5700	mg/kg
Calcium (Ca):	1.7	1.2	%
Magnesium (Mg):	0.37	0.26	%
Sulfate (SO ₄ -S):	280	200	mg/kg
Boron (Total B):	25	18	mg/kg
Moisture:	0	28.3	%
Sodium (Na):	0.21	0.15	%
Chloride (CI):	0.37	0.27	%
pH Value:	NA	8.93	unit
Bulk Density :	25	36	lb/cu ft
Carbonates (CaCO ₃):	0.63	0.45	lb/ton
Conductivity (EC5):	4.8	NA	mmhos/cm
Organic Matter:	51.1	36.7	%
Organic Carbon:	23.0	17.0	%
Ash:	48.9	35.0	%
C/N Ratio	17	17	ratio
AgIndex	5	5	ratio
Metale	Descript	EDA Lineit	

	Stability Indicate	r:		
	CO2 Evolution		Respirometery	
	mg CO₂-C/g OM/day		6.0	
	mg CO ₂ -C/g TS/d	ay	3.1	
	Stability Rating	9	moderately unstable	
	Maturity Indicate	r: Cucum	ber Bioassay	
	Compost:Vermicu	ılite (v:v)	1:2	
	Emergence (%)		100	
	Seedling Vigor (%	o)	105	
	Description of	Plants	mushroom	
	Pathogens	Results	Units	Rating
	Fecal Coliform	< 7.5	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 23 May	[,] 19		
	Physical Contan	ninants**	% by weight	
	Total Plastic		< 0.1	
า	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4800	-	mg/kg
Arsenic (As):	4.4	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	13	-	mg/kg
Cobalt (Co)	3.0	-	mg/kg
Copper (Cu):	30	1500	mg/kg
Iron (Fe):	8100	-	mg/kg
Lead (Pb):	12	300	mg/kg
Manganese (Mn):	200	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.6	75	mg/kg
Nickel (Ni):	5.5	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	100	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	8.0	
2.0 to 4.0	6.6	
< 2.0	92.6	
	<u> </u>	one greater than 2mm)

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 23 May. 19 9050731 - 1/1 - 6671 Sample i.d. Green 6-10

Group: May19D No. 19 Sample I.d. No. 1/1 9050731

INTERPRETATION:

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile		
6.0 mg CO2-C/	+++++++	+++++++++++		
g OM/day	< Stable	> <moderately unstable=""> <</moderately>	Unstable	> < High For Mulch

Page one of three

Is Your Compost Mature?

	VeryMature> <	Mature	> < Immature
mmonia N ppm			
400 mg/kg	++++++++++++++	+++++++++++++++++++	+++++
dry wt.	VeryMature> <	Mature	> < Immature
litrate N ppm			
12 mg/kg	+++++++		
dry wt.	< Immature	>	< Mature
H value			
8.93 units	++++++++++++++	+++++++++++	+++++++++++++++++++++++++++++++++++++++
	< Immature		> < Mature > < Immature
ucumber Emergence			
100.0 percent	+++++++++++++++	++++++++++	+++++++++++++++++++++++++++++++++++++++
•	< Immature		>I< Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform < 1000 MPN/g dry wt.	++++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)				
2.9 Percent	++++++	+++++++++++++		
dry wt.	<low< th=""><th>> < Average</th><th>> < High Nเ</th><th>utrient Content</th></low<>	> < Average	> < High Nเ	utrient Content
AgIndex (Nutrients / Sodium	and Chlo	ride Salts)	((N+P2O5+K2O) / (Na + Cl))
5 Ratio	++++++	++++++++++++	+++	
	Na & Cl	> < Nutrient and S	Sodium and Chloride Provider	> < Nutrient Provider
Plant Available Nitrogen (PA	N)	Estimated relea	ase for first season	
3 lbs/ton	++++++	+++		
wet wt.	Low Nitro	gen Provider> <	Average Nitrogen Provider	> <high nitrogen="" provider<="" th=""></high>
C/N Ratio				
17 Ratio		++++++++++++		
	J		leutral > < N-Demand> < Hig	h Nitrogen Demand
Soluble Available Nutrients	& Salts (E	C5 w/w dw)		
4.8 mmhos/cm		++++++++++++		
dry wt.	SloReleas	se> < Average Nutr	rient Release Rate > <high< th=""><th>Available Nutrients</th></high<>	Available Nutrients
Lime Content (CaCO3)				
0.63 Lbs/ton	+			
dry wt.	< Low >	< Average	> < High Lime Cont	ent (as CaCO3)

What are the physical properties of your compost?

vnat are the physical properties of your compost?						
Percent Ash						
48.9 Percent	+++++++++++++++++++	++++++++++++++				
dry wt.	< High Organic Matter	> < Average	> < High Ash Content			
Sieve Size % > 6.3 MM (0.25	Sieve Size % > 6.3 MM (0.25")					
0.0 Percent	+					
dry wt.	All Uses > < Size M	May Restrict Uses for Pottir	ng mix and Golf Courses			
-						

Account No.: Date Received 23 May. 19 9050731 - 1/1 - 6671 Sample i.d. Green 6-10

Group: May19D No. 19 Sample I.d. No. 1/1 9050731

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

6.0 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

33

Ammonia N	ppm			
400	mature			
Nitrate N ppi	m			
12	immature			
pH value				
8.93	immature			

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

2.9 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 23 May. 19 9050731 - 1/1 - 6671 Sample i.d. Green 6-10

Group: May19D No. 19 Sample I.d. No. 1/1 9050731

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

17 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

4.8 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

0.63 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

48.9 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
Plant Available Nitrogen (PAN) calculations:		Estimated available nutrients for use when calculating application rates	
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))			lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	2.5
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.58
If RR > 10 then $X = 0.4$		Nitrate (NO3-N)	0.02
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	4.7
RR = F	Respiration rate	Available Potassium (K2O)	13.7



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SOIL CONTROL LAB



Account #: 9060343-1/1-6671 Group: Jun19B #17 Reporting Date: July 3, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 11 Jun. 19
Sample Identification: Purple Rows 1-4
Sample ID #: 9060343 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.5	1.1	%
Ammonia (NH ₄ -N):	620	420	mg/kg
Nitrate (NO ₃ -N):	7.0	4.9	mg/kg
Org. Nitrogen (OrgN):	1.4	0.96	%
Phosphorus (as P_2O_5):	0.50	0.35	%
Phosphorus (P):	2200	1500	mg/kg
Potassium (as K ₂ O):	1.0	0.69	%
Potassium (K):	8400	5800	mg/kg
Calcium (Ca):	1.5	1.0	%
Magnesium (Mg):	0.35	0.24	%
Sulfate (SO ₄ -S):	360	250	mg/kg
Boron (Total B):	25	17	mg/kg
Moisture:	0	31.1	%
Sodium (Na):	0.20	0.14	%
Chloride (CI):	0.28	0.19	%
pH Value:	NA	4.80	unit
Bulk Density:	24	34	lb/cu ft
Carbonates (CaCO ₃):	<0.1	<0.1	lb/ton
Conductivity (EC5):	6.5	NA	mmhos/cm
Organic Matter:	51.8	35.7	%
Organic Carbon:	28.0	19.0	%
Ash:	48.2	33.2	%
C/N Ratio	18	18	ratio
AgIndex	6	6	ratio

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/day		7.9	
	mg CO ₂ -C/g TS/c	lay	4.1	
	Stability Rating	g	moderately unstable	
	Moturity Indicate	C	har Diagonay	
	Maturity Indicate		-	
	Compost:Vermicu	ilite (v:v)	1:2	
	Emergence (%)		93	
	Seedling Vigor (%	(o)	86	
	Description of	Plants	fungus	
	Pathogens		Units	Rating
	Fecal Coliform	< 7.5	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 11 Jun	. 19		
			• • • • • • • • • • • • • • • • • • • •	
	Physical Contan	ninants**	% by weight	
	Total Plastic		< 0.1	
ı	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	6200	-	mg/kg
Arsenic (As):	3.6	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	17	-	mg/kg
Cobalt (Co)	2.8	-	mg/kg
Copper (Cu):	29	1500	mg/kg
Iron (Fe):	9100	-	mg/kg
Lead (Pb):	13	300	mg/kg
Manganese (Mn):	190	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.4	75	mg/kg
Nickel (Ni):	6.9	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	94	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	1.6	
2.0 to 4.0	8.7	
< 2.0	89.7	
**Croater th	on 1mm in aiza (Char	no greater than 2mm)

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

 Account No.:
 Date Received
 11 Jun. 19

 9060343 - 1/1 - 6671
 Sample i.d.
 Purple Rows 1-4

 Group:
 Jun19B No. 17
 Sample I.d. No.
 1/1
 9060343

INTERPRETATION: Page one of three

				_	,
Is Your Compost Stable	<u>e?</u>				
Respiration Rate	Biode	egradation Rate of Your Pil	e		
7.9 mg CO2-C/	+++++++++++++	+++++++++++++			
g OM/day	< Stable >	<moderately unstable=""> <</moderately>	Unstable	> < 	ligh For Mulch
Is Your Compost Matur	70.2				
AmmoniaN/NitrateN ratio					
89 Ratio		+++++++++++++++++++	++++++++++++++		
	VeryMature> <	Mature		> <	Immature
Ammonia N ppm					
620 mg/kg		++++++++++++++++++			
dry wt.	VeryMature> <	Mature	>	< mr	nature
Nitrate N ppm					
7.0 mg/kg	++++				
dry wt.	< Immature		> < Mature		
pH value					
4.80 units	+++++++++++++	++++++++++++++++++	++		
	< Immature		> < Ma	ature	> < Immature
Cucumber Emergence					
93.3 percent	+++++++++++++	++++++++++++++++++	+++++++++++++	+++++	+++++++++++++
•	< Immature				> < Mature
Is Your Compost Safe I	Regarding Health?				
Fecal Coliform					
< 1000 MPN/g dry v	wt. ++++++				
1000 Mil 14/g dry 1	< Safe		> < High	Fecal C	Coliform
Salmonella	· Guio		- · ·	11 0001 0	
Less than 3 /4g dry wt.	++++++				
2033 than 3 /-rg dry Wt.	<safe (none="" detec<="" td=""><td>cted) >I</td><td>< High Salmonella Co</td><td>ount(> 3</td><td>per 4 grams)</td></safe>	cted) >I	< High Salmonella Co	ount(> 3	per 4 grams)
Metals US EPA 503		5.04)	Trigit Camilonolla Oc	Jana -	por r gramo,

Does Your Compost Provide Nutrients or Organic Matter?

<All Metals Pass

Pass dry wt.

3.0 Percent	++++++++++++	+++++++		
*** * *******		< Average	> < High Nutrient Cont	ent
dry wt.				
IgIndex (Nutrients / Sodium			I+P2O5+K2O) / (Na + Cl))
6 Ratio		++++++++++++++++		
	Na & Cl > < Nut	trient and Sodium and Chlo	ride Provider > <	Nutrient Provider
Plant Available Nitrogen (P	AN) Estir	nated release for first seas	on	
3 lbs/ton	+++++++++			
wet wt.	Low Nitrogen Prov	ider> < Average Nitro	gen Provider	> <high nitrogen="" provider<="" td=""></high>
C/N Ratio				
18 Ratio	++++++++++++	++++++++++++++++++	+	
	< Nitrogen Release	e > < N-Neutral > < N-De	mand> < High Nitrogen	Demand
Soluble Available Nutrients	& Salts (EC5 w/w o	dw)		
6.5 mmhos/cm	++++++++++++	+++++++++++++++++		
dry wt.	SloRelease> < Av	erage Nutrient Release Ra	te > <high available<="" td=""><td>Nutrients</td></high>	Nutrients
ime Content (CaCO3)				
0 Lbs/ton	+			
dry wt.	< Low > <	Average > < Hid	h Lime Content (as Cat	CO3)

>|< One or more Metals Fail

What are the physical properties of your compost?

winat are the physical pro	<u>perues or y</u>	our compost:	•		
Percent Ash					
48.2 Percent	+++++++	+++++++++++	++++++	+++++++	
dry wt.	< High Orga	anic Matter	> < A\	verage	> < High Ash Content
Sieve Size % > 6.3 MM (0.25	")				
0.0 Percent	+				
dry wt.	All Uses	> < Size Ma	y Restrict L	Jses for Pot	ting mix and Golf Courses

Account No.: Date Received 11 Jun. 19 9060343 - 1/1 - 6671 Sample i.d. Purple Rows 1-4

Group: Jun19B No. 17 Sample I.d. No. 1/1 9060343

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

7.9 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

89

Ammonia N	ppm
620	immature
Nitrate N pp	m
7.0	immature
pH value	
4.80	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.0 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

 Account No.:
 Date Received
 11 Jun. 19

 9060343 - 1/1 - 6671
 Sample i.d.
 Purple Rows 1-4

 Group:
 Jun19B No. 17
 Sample I.d. No.
 1/1
 9060343

INTERPRETATION: Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during he growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

6.5 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

48.2 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
Plant Available Nitrogen (PAN) calculations:		Estimated available nutrients for use wher	n calculating application rates
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))			lbs/ton (As Rcvd.)
X value = If RR < 2 then X = 0.1			
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.0
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.84
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.01
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	4.4
RR = F	Respiration rate	Available Potassium (K2O)	14.0



TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

SOIL CONTROL LAB



Account #: 9060345-1/1-6671 Group: Jun19B #18 Reporting Date: July 3, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 11 Jun. 19
Sample Identification: Blue Rows 1-6
Sample ID #: 9060345 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.7	1.3	%
Ammonia (NH ₄ -N):	480	370	mg/kg
Nitrate (NO ₃ -N):	6.3	4.8	mg/kg
Org. Nitrogen (OrgN):	1.7	1.3	%
Phosphorus (as P_2O_5):	0.51	0.39	%
Phosphorus (P):	2300	1700	mg/kg
Potassium (as K ₂ O):	1.0	0.79	%
Potassium (K):	8600	6500	mg/kg
Calcium (Ca):	1.5	1.1	%
Magnesium (Mg):	0.35	0.27	%
Sulfate (SO ₄ -S):	280	220	mg/kg
Boron (Total B):	26	20	mg/kg
Moisture:	0	23.7	%
Sodium (Na):	0.22	0.17	%
Chloride (CI):	0.34	0.26	%
pH Value:	NA	6.08	unit
Bulk Density :	26	34	lb/cu ft
Carbonates (CaCO ₃):	<0.1	<0.1	lb/ton
Conductivity (EC5):	5.6	NA	mmhos/cm
Organic Matter:	51.7	39.4	%
Organic Carbon:	27.0	21.0	%
Ash:	48.3	36.9	%
C/N Ratio	16	16	ratio
AgIndex	6	6	ratio

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/day		7.3	
	mg CO ₂ -C/g TS/c	lay	3.8	
	Stability Rating	g	moderately unstable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermicu		1:2	
	Emergence (%)	. ,	93	
	Seedling Vigor (%	(b)	105	
	Description of	Plants	mushroom	
	Pathogens		Units	Rating
	Fecal Coliform		MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 11 Jun	. 19		
	Physical Contan	ninants**	% by weight	
	Total Plastic		< 0.1	
1	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	5700	-	mg/kg
Arsenic (As):	3.1	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	12	-	mg/kg
Cobalt (Co)	2.8	-	mg/kg
Copper (Cu):	25	1500	mg/kg
Iron (Fe):	8300	-	mg/kg
Lead (Pb):	14	300	mg/kg
Manganese (Mn):	190	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.3	75	mg/kg
Nickel (Ni):	5.2	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	98	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	1.4	
2.0 to 4.0	6.6	
< 2.0	92.0	
	<u> </u>	rne greater than 2mm)

*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 11 Jun. 19 9060345 - 1/1 - 6671 Sample i.d. Blue Rows 1-6

Group: Jun19B No. 18 Sample I.d. No. 1/1 9060345

INTERPRETATION: Page one of three

Is Your Compost Stable?

Is Your Compost Stable?	<u>?</u>					
Respiration Rate		Biodegradatio	n Rate of Your Pi	le		
7.3 mg CO2-C/	++++++++	++++++++++				
g OM/day	< Stable	> <moderate< td=""><td>ely Unstable> <</td><td>Unstable</td><td>> < High For Mulch</td><td></td></moderate<>	ely Unstable> <	Unstable	> < High For Mulch	
Is Your Compost Mature	?					
AmmoniaN/NitrateN ratio	_					
76 Ratio	++++++++	+++++++++	+++++++++++	+++++++++++	+++++++++++++++++	+++++++
	VeryMature>	<	Mature		> < Immature	
Ammonia N ppm					· ·	
480 mg/kg	++++++++	+++++++++	++++++++++++	+++++++++++	+++++	
dry wt.	VeryMature>	<	Mature		> < Immature	
Nitrate N ppm						
6.3 mg/kg	++++					
dry wt.	< Immature			> < Mature		
pH value 6.08 units				+++++++++		
6.06 units	< Immature		***********		< Mature > < Immatur	۵
Cucumber Emergence	· ininatare			,	· Wataro	
93.3 percent	++++++++	·+++++++++	+++++++++++	++++++++++	++++++++++++++++	++++
Colo percent	< Immature				> < Mature	
					·	
<u>Is Your Compost Safe Re</u>	<u>egarding Hea</u>	<u>Ith?</u>				
Fecal Coliform						
< 1000 MPN/g dry wt	. ++++++					
	< Safe			> <	High Fecal Coliform	
Salmonella						
Less than 3 /4g dry wt.	++++++				0 1/1 0	
Matala IIO EDA 500	<safe (none<="" td=""><td>e detected)</td><td>></td><td> < High Salmonell</td><td>a Count(> 3 per 4 grams)</td><td></td></safe>	e detected)	>	< High Salmonell	a Count(> 3 per 4 grams)	
Metals US EPA 503 Pass dry wt.	+++++++					
rass dry wt.	<all metals="" p<="" td=""><td>ass</td><td>></td><td> < One or more M</td><td>etals Fail</td><td></td></all>	ass	>	< One or more M	etals Fail	
D				1		
<u>Does Your Compost Pro</u>	<u>vide Nutrient</u>	<u>s or Organic</u>	Matter?			
Nutrients (N+P2O5+K2O)						
3.3 Percent	++++++++	+++++++++	++++			
dry wt.	<low< td=""><td>> < Average</td><td>)</td><td>> < High Nutrier</td><td>nt Content</td><td></td></low<>	> < Average)	> < High Nutrier	nt Content	
AgIndex (Nutrients / Sodiu	m and Chlorid	e Salts)	۸))	I+P2O5+K2O) / (N	la + Cl))	
6 Ratio		+++++++++				
			Sodium and Chlo		> < Nutrient Provider	
Plant Available Nitrogen (F			ease for first seas	on		
3 lbs/ton	++++++++		A	D	5 Lat 12 1 A 124	
wet wt.	Low Nitrogen	Provider> <	Average Nitro	gen Provider	> <high nitrogen="" p<="" td=""><td>rovider</td></high>	rovider
C/N Ratio 16 Ratio		+++++++++				
16 Rallo				mand> < High Ni	rogen Demand	
Soluble Available Nutrient			Tredital > Trebe	manur Tilgir Ni	logen Demand	
5.6 mmhos/cm		+++++++++	++++++			
dry wt.			trient Release Ra	te >I <high ava<="" td=""><td>ilable Nutrients</td><td></td></high>	ilable Nutrients	
Lime Content (CaCO3)				1		
0 Lbs/ton	+					
dry wt.	< Low > <	Average	e > < Hig	h Lime Content (as CaCO3)	
What are the physical pr	operties of vo	our compost	?			
			_			
Percent Ash						
48.3 Percent		anic Matter	++++++++++++ > < Averag		< High Ash Content	
dry wt. Sieve Size % > 6.3 MM (0.2		ii iio iviallei	7 Averag		- Figit Asit Collecti	
0.0 Percent	+					
dry wt		No Sizo M	ay Postrict Heast	for Potting mix and	1 Colf Courses	

dry wt.

All Uses

>|< Size May Restrict Uses for Potting mix and Golf Courses

Account No.: Date Received 11 Jun. 19 9060345 - 1/1 - 6671 Sample i.d. Blue Rows 1-6

Group: Jun19B No. 18 Sample I.d. No. 1/1 9060345

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

7.3 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

76

Ammonia N ppm							
480	mature						
Nitrate N ppr	Nitrate N ppm						
6.3	immature						
pH value							
6.08	immature						

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent

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measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

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Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.3 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 11 Jun. 19 9060345 - 1/1 - 6671 Sample i.d. Blue Rows 1-6

Group: Jun19B No. 18 Sample I.d. No. 1/1 9060345

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

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C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

5.6 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that

nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

48.3 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:	ole Nitragen (DANI) coloulations	Estimated evailable putrients for use when	a calculating application rates
	ole Nitrogen (PAN) calculations:	Estimated available nutrients for use when	0 11
, ,	organic N)) + ((NH4-N) + (NO3-N))		lbs/ton (As Rcvd.)
X value =	If RR < 2 then $X = 0.1$		
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.3
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.74
	If RR > 10 then X = 0.4	Nitrate (NO3-N)	0.01
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	4.9
RR = F	Respiration rate	Available Potassium (K2O)	15.7



Environmental Services Department

Disposal and Environmental Protection Division

October 22, 2019

Mr. Bill Prinz Program Manager Solid Waste Local Enforcement Agency (LEA) 9601 Ridghaven Court, Suite 220, MS 1102B San Diego, CA 92123

Dear Mr. Prinz:

Reference: Quarterly Report-July through September, 2019

The City of San Diego's Environmental Services Department is submitting this report in compliance with the Self-Monitoring requirements in Compostable Materials Handling Facility Permit number 37-AB-0003 for the Miramar Greenery. The reporting period is for July through September 2019.

Attachment 1 reports the daily tonnage received by material type and number of vehicles using the site. Attachment 2 summarizes the Log of Special Occurrences, Load Check results and also includes quantities of "contaminants" hauled to the landfill. Attachment 3 summarizes the volume of product leaving the facility per month. Attachment 4 details soil testing for Feedstock analysis and pathogenic organisms, metals and contaminants as required by 14 CCR, Chapter 3.1, and Article 7.

If you have any questions or comments regarding this report, please feel free to contact me at (858) 492-6151 or Burton Ewert at (858) 627-3320.

Sincerely

James Hay

Senior Mechanical Engineer

JH/bce

Enclosures: Attachments 1-4

cc: Mario X. Sierra, Director, Environmental Services Department

Hassan Yousef, Assistant Director, Environmental Services Department Renee Robertson, Deputy Director, Environmental Services Department

Burton Ewert, Biologist III, Environmental Services Department

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City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 07/01/2019 To 07/31/2019

	500D V	VA 075	FOOD V	VASTE	07/01/2		GREENS	WASTE	Wood	WA OTE		
DATE	FOOD V	VASTE	MULT	IPLE	GREE	NERY	MULT	IPLE	WOOD	WASTE	TOTAL #	
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	OF	TONS
07/01/2019	3	14.81	2	9.72	253	495.23			8	7.54	266	527.3
07/02/2019	6	23.95	2	4.55	236	390.35	1	3.66	11	9.78	256	432.29
07/03/2019	4	12.32	2	3.13	205	289.55			17	20.12	228	325.12
07/05/2019	5	16.05	3	11.85	222	229.44			13	16.79	243	274.13
07/06/2019	3	9.32	1	2.65	314	340.1	1	1.56	12	10.66	331	364.29
07/08/2019	3	13.02	3	15.89	248	444.45			20	20.91	274	494.27
07/09/2019	4	12.74	2	4.38	233	386.24	1	3.58	9	12.99	249	419.93
07/10/2019	1	2.92	3	9.75	189	308.82			14	17.24	207	338.73
07/11/2019	6	19.42	1	1.12	179	244.86	1	4.84	13	9.98	200	280.22
07/12/2019	5	13.47	2	7.43	200	311.57			6	4.54	213	337.01
07/13/2019	3	7.03	1	2.02	313	265.1			11	9.45	328	283.6
07/15/2019	4	14.03	3	14.06	192	417.31			17	19.66	216	465.06
07/16/2019	7	26.95	2	5.05	204	317.15	2	13.03	14	17.92	229	380.1
07/17/2019	1	4.15	4	16.83	185	286.11			9	12.2	199	319.29
07/18/2019	5	6.79	1	0.64	204	268.65			18	19.7	228	295.78
07/19/2019	5	14.14	3	10.25	195	302.09			11	15.22	214	341.7
07/20/2019	2	7.87	1	1.72	295	244.03			11	11.5	309	265.12
07/22/2019	4	15.59	2	11.93	253	434.44			11	10.95	270	472.91
07/23/2019	4	11.95	2	8.16	194	365.24	2	9.5	8	10.86	210	405.71
07/24/2019	2	10.92	3	8.22	178	262.88			11	10.5	194	292.52
07/25/2019	5	12.4	1	0.87	177	246.5	1	8.16	13	10.18	197	278.11
07/26/2019	6	19.74	3	11.25	198	287.16			12	11.35	219	329.5
07/27/2019	2	3.04	1	2.3	288	245.87			14	12.38	305	263.59
07/29/2019	3	16.36	2	12.13	209	402.82			9	8.16	223	439.47
07/30/2019	5	24.03	3	10.93	216	349.25	2	13	10	13.9	236	411.11
07/31/2019	2	6.54	3	10.59	207	318.6			6	7.99	218	343.72
TOTAL	100	339.55	56	197.42	5787	8453.81	11	57.33	308	332.47	6262	9380.58

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 07/01/2019 To 07/31/2019

FOOD WASTE GREENS WASTE												
DATE	FOOD V	VASTE	MULT		GREE	NERY	MULT		WOOD \	WASTE	тот	ALS
	LOADS	TONE	LOADS	TONS	LOADS	TONE	LOADS	TONS	LOADS	TONS	OF LOADS	TOTAL TONS
00/04/0040		TONS				TONS						
08/01/2019	3	8.18	1	1.02	185	237.74	1	6.46	5	3.65	195	257.05
08/02/2019	4	15.33	3	10.18	192	312.07	2	2.91	11	12.82	212	353.31
08/03/2019	2	7.93	1	1.98	319	255.52			14	10.91	336	276.34
08/05/2019	3	9.09	3	16.3	224	392.31			11	10.86	241	428.56
08/06/2019	5	18.42	2	5.24	213	336.81	1	3.84	8	8.86	229	373.17
08/07/2019	1	3.38	3	11.72	207	284.69			9	12.81	220	312.6
08/08/2019	8	25.63	1	1.05	171	226.54	1	4.4	8	10.97	189	268.59
08/09/2019	3	10.33	3	10.79	213	313.49	1	1.06	7	5.58	227	341.25
08/10/2019	3	7.94	1	2.61	293	245.57			14	10.8	311	266.92
08/12/2019	4	16.27	3	17.93	203	427.02			13	11.55	223	472.77
08/13/2019	6	24.16	1	2.63	189	273.42	2	10.64	12	11.89	210	322.74
08/14/2019	4	13.39	3	10.48	225	341.27	1	2.9	15	18.23	248	386.27
08/15/2019	6	16.52	1	0.88	176	243.13	1	4.59	10	6.63	194	271.75
08/16/2019	3	9.73	3	12.18	205	305.295	1	1.22	8	10.82	220	339.245
08/17/2019	3	7.96	1	2.05	295	258.16			13	9.85	312	278.02
08/19/2019	5	21.21	2	16.96	240	423.43			5	5.19	252	466.79
08/20/2019	6	27.24	2	5.03	202	338.49	2	9.77	13	14.63	225	395.16
08/21/2019	1	3.19	3	11.83	195	299.41			6	7.42	205	321.85
08/22/2019	5	13.94	1	0.73	180	198.88			13	19.4	199	232.95
08/23/2019	4	12.15	3	11.55	200	307.31			12	15.77	219	346.78
08/24/2019	3	8.21	1	1.97	288	260.46			12	11.09	304	281.73
08/26/2019	5	19.1	2	14.07	200	424.91			8	9.09	215	467.17
08/27/2019	5	23.43	1	2.42	183	317.96	1	3.11	10	15.58	200	362.5
08/28/2019	3	14.94	4	18.09	216	309.9			13	16.53	236	359.46
08/29/2019	6	11.31	1	0.53	173	229.29			11	22.48	191	263.61
08/30/2019	3	8.75	3	12.54	186	320.15			8	7.67	200	349.11
08/31/2019	4	11.25	1	1.36	264	219.07			16	12.57	285	244.25
TOTAL	108	368.98	54	204.12	5837	8102.3	14	50.9	285	313.65	6298	

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 07/01/2019 To 07/31/2019

FOOD WASTE				VASTE	11 0770172		GREENS					
DATE	FOOD V	WASTE	MULT	IPLE	GREE	NERY	MULT	IPLE	WOOD	WASTE	ТОТ	
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	TOTAL # OF	TOTAL TONS
09/03/2019	9	38.08	3	24.16	231	444.96			11	27.28	254	534.48
09/04/2019	1	5.66	4	12.67	181	335.25	2	6.18	12	10.93	200	370.69
09/05/2019	5	19.29	1	0.59	158	282.92			11	10.32	175	313.12
09/06/2019	4	9.56	3	10.8	172	231.16			10	13.44	189	264.96
09/07/2019	2	7.28	1	1.83	313	365.51			9	15.63	325	390.25
09/09/2019	5	20.9	3	16.03	243	436.2			17	19.91	268	493.04
09/10/2019	7	34.84	1	2.12	184	310.58	2	14	15	13.89	209	375.43
09/11/2019	1	3.27	2	5.27	201	323			14	14.18	218	345.72
09/12/2019	6	19.14	2	7.49	177	248.45	1	7.86	10	14.25	196	297.19
09/13/2019	4	15.23	3	9.08	190	274.39			8	17.15	205	315.85
09/14/2019	3	14.03	1	2.09	317	271.73			16	17.02	337	304.87
09/16/2019	4	15.58	3	19.75	208	391.54			10	9.93	225	436.8
09/17/2019	7	26.96	2	4.44	198	350.99	2	14.34	11	10.89	220	407.62
09/18/2019	2	9.26	2	7.16	190	290.56			19	17.45	213	324.43
09/19/2019	6	16.86	1	0.61	165	211.97			11	14.26	183	243.7
09/20/2019	4	14.15	2	9.9	194	296.59	1	1.18	14	24.11	215	345.93
09/21/2019	3	8.74	2	5.77	300	245.71			17	23.81	322	284.03
09/23/2019	5	21.62	1	1.86	230	433.59			10	7.07	246	464.14
09/24/2019	7	29.2	3	17.18	178	307.41	2	16.53	6	5.07	196	375.39
09/25/2019	3	11.68	2	10.28	174	281.18			8	6.09	187	309.23
09/26/2019	3	5.59	1	0.54	174	239.47			8	12	186	257.6
09/27/2019	5	14.98	2	8.39	219	316.68			10	13.69	236	353.74
09/28/2019	3	13.28	1	9.57	262	240.02			6	7.25	272	270.12
09/30/2019	6	22.38	2	14.36	230	423.18			8	7.79	246	467.71
TOTAL	105	397.56	48	201.94	5089	7553.04	10	60.09	271	333.41	5523	8546.04
SUM:	313	1106.09	158	603.48	16713	24109.1	35	168.32	864	979.53	18083	26966.6

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

JULY 2019									
DATE	SPECIAL								
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed						
7/1/2019	NSO		0						
7/2/2019	NSO		0						
7/3/2019	NSO		0						
7/4/2019	NSO	Closed	0						
7/5/2019	NSO		16.9						
7/6/2019	NSO		0						
7/7/2019	NSO	Closed	0						
7/8/2019	NSO		10.21						
7/9/2019	NSO		0						
7/10/2019	NSO		0						
7/11/2019	NSO		0						
7/12/2019	NSO		0						
7/13/2019	NSO		0						
7/14/2019	NSO	Closed	0						
7/15/2019	NSO		10.98						
7/16/2019	NSO		0						
7/17/2019	NSO		0						
7/18/2019	NSO		0						
7/19/2019	NSO		10						
7/20/2019	NSO		0						
7/21/2019	NSO	Closed	0						
7/22/2019	NSO		0						
7/23/2019	NSO		0						
7/24/2019	NSO		0						
7/25/2019	NSO		0						
7/26/2019	NSO		22.13						
7/27/2019	NSO		9.83						
7/28/2019	NSO	Closed	0						
7/29/2019	NSO		0						
7/30/2019	NSO		0						
7/31/2019	NSO								
		Monthly Total	80.05						

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

	AUGUST 2019										
2.4	SPECIAL										
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed								
8/1/2019	NSO		0								
8/2/2019	NSO		21.6								
8/3/2019	NSO		0								
8/4/2019	NSO	Closed	0								
8/5/2019	NSO		0								
8/6/2019	NSO		0								
8/7/2019	NSO		0								
8/8/2019	NSO		0								
8/9/2019	NSO		21.17								
		Recycled water line break. Repaired									
8/10/2019	NSO	immediately	0								
8/11/2019	NSO	Closed	0								
8/12/2019	NSO		10.72								
8/13/2019	NSO		0								
8/14/2019	NSO		0								
8/15/2019			0								
8/16/2019	NSO		14.45								
8/17/2019	NSO		0								
8/18/2019	NSO	Closed	0								
8/19/2019			0								
8/20/2019	NSO		0								
8/21/2019	NSO		6.52								
8/22/2019			0								
8/23/2019			3.06								
8/24/2019			17.87								
8/25/2019		Closed	0								
8/26/2019			0								
8/27/2019	NSO		9.87								
8/28/2019	NSO		0								
8/29/2019			0								
8/30/2019			0								
8/31/2019	NSO		0								
		Monthly Total	105.26								

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

SEPTEMBER 2019									
DATE	SPECIAL								
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed						
9/1/2019		Closed							
9/2/2019		Closed, Holiday							
9/3/2019	NSO		7.59						
9/4/2019	NSO								
9/5/2019	NSO								
9/6/2019	NSO		(
9/7/2019	NSO								
9/8/2019		Closed							
9/9/2019	NSO								
9/10/2019	NSO								
9/11/2019	NSO		8.99						
9/12/2019	NSO								
9/13/2019	NSO		(
9/14/2019	NSO		(
9/15/2019		Closed	(
9/16/2019	NSO		(
9/17/2019	NSO		(
9/18/2019	NSO		8.27						
9/19/2019	NSO		17.36						
9/20/2019	NSO								
9/21/2019	NSO								
9/22/2019		Closed							
9/23/2019	NSO		7.99						
9/24/2019	NSO		8.43						
9/25/2019	NSO		4.23						
9/26/2019	NSO								
9/27/2019	NSO								
9/28/2019	NSO								
9/29/2019		Closed							
9/30/2019	NSO		5.9						
		Monthly Total	68.68						

		Incom	ing Tons	5							Outgo	ng Yards			
Month/ Year	Clean Greens	Wood	X-Mas	Food	Drywall/ Animal	Total	Greens Trash	ADC	Miramar Slope Mulch	Other Internal Mulch	Other Internal Chips	Other Internal Compost		Sales (cubic yards)	
			Trees	Waste	Bedding in FY11		tons	yards	yards	yards	yards	yards	ALL Mulch	Compost & Overs	All Woodchips
							FY09	Totals							
FY09 Totals	94,078	4,361	922	2,162	73	101,596	912	2,545	38,178	11,330	0	0	28,993	20,102	22,817
					_			Totals				-			
FY10 Totals	97,041	3,344	983	1,896	0	103,264	800	4,445	25,710	5,000	0	0	29,911	25,328	19,828
EV44 T 4 1								Totals	10 == 1	_					
FY11 Totals	91,799	3,121	1,037	2,409	12	98,379	792 EV40	32,644	13,754	0	0	0	24,060	19,175	16,878
FY12 Totals	88,507	3,419	1,035	3,689	60	96,710	676	Totals 52,068	18,304	3,950	0	0	27,015	26,731	17,168
TTTE TOTALS	00,307	3,419	1,033	3,009	00	90,710		Totals	10,304	3,930	U	U	21,013	20,731	17,100
FY13 Totals	90,555	3,339	1,085	5,396	127	100,502	881	65,370	16,520	0	0	0	45,676	29,546	17,764
	00,000	0,000	1,000	0,000		100,002		Totals	10,020			· ·	10,010	20,0-10	11,104
FY14 Totals	90,198	3,753	1,040	7,481	310	102,782	653	54.840	8,360	0	0	2,106	52,894	30,302	13,369
	FY15 Totals														
FY15 Totals	87,292	4,368	857	9,388	166	102,071	911	31,940	6,932	0	0	0	56,516	30,667	15,648
							FY16	Totals							
FY16 Totals	92,590	4,645	1,096	7,605	0	105,935	1,020	15,356	5,021	175	0	0	78,828	24,901	16,103
							FY17	Totals							
FY17 Totals	89,727	4,554	986	7,786	0	103,052	858	33,124	3,164	2,044	0	0	68,671	22,823	14,011
							FY18	Totals							
FY18 Totals	87,369	3,809	677	7,514	0	99,369	982	15,564	19,668	0	0	1,340	55,038	19,407	11,298
								Totals					_		
FY19 Totals	85,656	3545	686.71	6,671	0	96,558	1164	3352	48,288	0	0	46500	50,007	17,526	7,804
Jul-19	8511	332	0		0		80.05	0							
Aug-19 Sep-19	8153 7613	314 333	0	573 600	0	9040 8546	105.26 68.68	0		0				2939 1106	375 208
Oct-19	7013	333	U	000	U	0040	00.00	U	704	U	U	U	2130	1106	200
Nov-19														-	
Dec-19															
Jan-20															
Feb-20															
Mar-20															
Apr-20															
May-20															
Jun-20						22.225									4
FY20 Totals	24,277	979	0	1,710	0	26,966	254	0	0,784	0	0	0	9,970	5,524	1,365

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Date Sampled/Received: 05 Aug. 19 / 06 Aug. 19

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego CA 92123

Product Identification

Public Compost

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	42 Hangar Way; Watsonville, CA 95076	<i>tel:</i> 831.724.5422	fax: 831.724.3188				
Compost Parameters	Reported as (units of measure)	Test Results	Test Results				
Plant Nutrients:	%, weight basis	Not reported	Not reported				
Moisture Content	%, wet weight basis	27.3					
Organic Matter Content	%, dry weight basis	53.2					
pН	units	7.86					
Soluble Salts (electrical conductivity EC 5)	dS/m (mmhos/cm)	5.4					
Particle Size or Sieve Size	maxium aggregate size, inches	0.64					
Stability Indicator (respirometry)	Stability Rating:					
CO ₂ Evolution	mg CO ₂ -C/g OM/day	2.4	Stable				
	mg CO ₂ -C/g TS/day	1.3	Stable				
Maturity Indicator (bioassay)							
Percent Emergence	average % of control	93.3					
Relative Seedling Vigor	average % of control	88.8					
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform				
		Pass	Salmonella				
Trace Metals	PASS/FAIL: per US EPA Class A	Dana	As,Cd,Cr,Cu,Pb,Hg				
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn				

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Aug19B	Laboratory Number: 9080167-1/1
Analyst: Assaf Sadeh	asy Salel	
	ange	www.compostlab.com



Date Sampled/Received: 05 Aug. 19 / 06 Aug. 19

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego

CA 92123

Product Identification

Public Compost

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	'6 <i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	Total N	1.1	1.6
Phosphorus	P_2O_5	0.45	0.64
Potassium	K ₂ O	0.77	1.1
Calcium	Ca	1.4	1.9
Magnesium	Mg	0.29	0.40
Moisture Content	%, wet weight basis	27.3	
Organic Matter Content	%, dry weight basis	53.2	
pН	units	7.86	
Soluble Salts (electrical conductivity EC ₅)	dS/m (mmhos/cm)	5.4	
Particle Size or Sieve Size	% under 9.5 mm, dw basis	99.7	
Stability Indicator (respirometry	<i>v</i>)		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day mg CO ₂ -C/g TS/day	2.4	Stable
Maturity Indicator (bioassay)	ing CO ₂ C/g 15/day	1.5	
Percent Emergence	average % of control	93.3	
Relative Seedling Vigor	average % of control	88.8	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Dece	As, Cd, Cr, Cu, Pb, Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Aug19B	Laboratory Number:	9080167-1/1
Analyst: Assaf Sadeh	asy Sabel	www.compostlab.com	



Caltrans

Attachment 4

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego CA 92123

Product	Identi	fication:

Public Compost

Date Sampled/Received: 05 Aug. 19 / 06 Aug. 19

COMPOST TECHNICAL DATA SHEET for Caltrans

LABORATORY: Soil Control Lab, 42 Hangar Way, Watsonville, CA 95076 tel (831) 724-5422 fax (831) 724-3188 www.compostlab.com

Compost Parameters	Test Results Reported as (units of measure)		TMECC Test
			Method
pH	7.86	Unitless	04.11-A 1:5 Slurry pH
Soluble Salts	5.4	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method
(electrical conductivity)	3.4	us/iii (iiiiiiios/ciii)	Mass Basis
Moisture content	27.3	%, wet weight basis	03.09-A - Total Solids and Moisture
Organic Matter Content	53.2	%, dry weight basis	05.07-A Loss-on-Ignition
Organic Matter Content		70, dry weight outsit	Organic Matter Method (LOI)
Maturity Indicator (bioassay)			
Percent Emergence	93.3	average % of control	05.05-A Germination and vigor
Relative Seedling Vigor	88.8	average % of control	
			05.08-B Carbon Dioxide
Stability Indicator	2.4	mg CO2-C/g OM/day	Evoultion Rate
		%, dry weight passing through	02.02-B Sample Sieving for
Particle Size	99.7	9.5 mm	Aggregate Size Classification
Pathogens	Pass	PASS/FAIL: Per US EPA Class A	07.01-B Fecal coliforms
ramogens	1 dss	standard, 40 CFR 503.32(a)	07.01-B recai comornis
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.02 Samonella
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Total content
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Sharps content
Heavy Matala Contant	Pass	PASS/FAIL: Per US EPA Class A	04.06-Heavy Metals standard,
Heavy Metals Content	Pass	40 CFR 503.13, tables 1 and 3.	and Hazardous Elements

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org.

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality. or suitability for any particular use.

Laboratory Group:	Aug19B	Laboratory Number:	9080167-1/1	
Analyst: Assaf Sadeh	Assa Sabel	www.compostlab.com		

ANALYTICAL CHEMISTS
and
BACTERIOLOGISTS
Approved by State of California

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

SOIL CONTROL LAB



Account #: 9080167-1/1-6671 Group: Aug19B #15 Reporting Date: August 23, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 06 Aug. 19
Sample Identification: Public Compost
Sample ID #: 9080167 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.6	1.1	%
Ammonia (NH ₄ -N):	360	260	mg/kg
Nitrate (NO ₃ -N):	5.6	4.1	mg/kg
Org. Nitrogen (OrgN):	1.6	1.2	%
Phosphorus (as P ₂ O ₅):	0.64	0.46	%
Phosphorus (P):	2800	2000	mg/kg
Potassium (as K ₂ O):	1.1	0.77	%
Potassium (K):	8800	6400	mg/kg
Calcium (Ca):	1.9	1.4	%
Magnesium (Mg):	0.40	0.29	%
Sulfate (SO ₄ -S):	66	48	mg/kg
Boron (Total B):	27	19	mg/kg
Moisture:	0	27.3	%
Sodium (Na):	0.30	0.22	%
Chloride (CI):	0.51	0.37	%
pH Value:	NA	7.86	unit
Bulk Density :	29	40	lb/cu ft
Carbonates (CaCO ₃):	5.1	3.7	lb/ton
Conductivity (EC5):	5.4	NA	mmhos/cm
Organic Matter:	53.2	38.7	%
Organic Carbon:	23.0	16.0	%
Ash:	46.8	34.0	%
C/N Ratio	14	14	ratio
AgIndex	4	4	ratio

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/	day	2.4	
	mg CO ₂ -C/g TS/c	lay	1.3	
	Stability Rating	g	stable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermicu	ılite (v:v)	1:2	
	Emergence (%)		93	
	Seedling Vigor (%	6)	89	
	Description of	Plants	healthy	
	Pathogens	Results	Units	Rating
	Fecal Coliform	< 7.5	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 06 Aug	j. 19		
	Physical Contan	ninants**	% by weight	
	Total Plastic		< 0.1	
n	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	5300	-	mg/kg
Arsenic (As):	3.8	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	23	-	mg/kg
Cobalt (Co)	3.5	-	mg/kg
Copper (Cu):	36	1500	mg/kg
Iron (Fe):	9300	-	mg/kg
Lead (Pb):	25	300	mg/kg
Manganese (Mn):	230	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.8	75	mg/kg
Nickel (Ni):	8.6	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	110	2800	mg/kg

_							
	Size Distribution						
	MM	% by weight					
	> 50	0.0					
	25 to 50	0.0					
	16 to 25	0.0					
	9.5 to 16	0.3					
	6.3 to 9.5	2.6					
	4.0 to 6.3	6.1					
	2.0 to 4.0	11.1					
	< 2.0	79.9					
	**Crooter the	on 1mm in ciza (Sharn	a greater than 2mm)				

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Attachment 4 Date Received 06 Aug. 19

Account No.: 9080167 - 1/1 - 6671

Sample i.d. Public Compost Aug19B No. 15 Sample I.d. No. 1/1 9080167 Group:

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile		
2.4 mg CO2-C/	+++++++			
g OM/day	< Stable	> <moderately unstable=""> <</moderately>	Unstable	> < High For Mulch

Is Your Compost Mature?

AmmoniaN/NitrateN ratio				
64 Ratio	++++++++++++++++	++++++++++++++	++++++++++++++++++++++	++++++++++++++++++++++
	VeryMature> <	Mature	> <	Immature
Ammonia N ppm				
360 mg/kg	+++++++++++++++	++++++++++++++	+++++	
dry wt.	VeryMature> <	Mature	> < lmi	mature
Nitrate N ppm				
5.6 mg/kg	++++			
dry wt.	< Immature		> < Mature	
pH value				
7.86 units	++++++++++++++++	++++++++++++++	++++++++++++++++++++++	+++++
	< Immature		> < Mature	> < Immature
Cucumber Emergence				
93.3 percent	+++++++++++++++	++++++++++++++	++++++++++++++++++++++	++++++
·	< Immature			> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform < 1000 MPN/g dry wt.	++++++	
, , , , , , , , , , , , , , , , , , , ,	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" td=""><td>> < One or more Metals Fail</td></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)				
3.3 Percent	++++++	+++++++++++	++++	
dry wt.	<low< td=""><td>> < Average</td><td>> < High Nı</td><td>utrient Content</td></low<>	> < Average	> < High Nı	utrient Content
AgIndex (Nutrients / Sodiu	m and Chlo	ride Salts)	((N+P2O5+K2O) / (Na + Cl))
4 Ratio	++++++	+++++++++++		
	Na & Cl	> < Nutrient and	Sodium and Chloride Provider	> < Nutrient Provider
Plant Available Nitrogen (F	AN)	Estimated rele	ase for first season	
3 lbs/ton	++++++	++		
wet wt.	Low Nitrog	en Provider> <	Average Nitrogen Provider	> <high nitrogen="" provider<="" td=""></high>
C/N Ratio				
14 Ratio	++++++	+++++++++++	+++++	
	< Nitroger	Release > < N-	Neutral > < N-Demand> < Hig	h Nitrogen Demand
Soluble Available Nutrients	& Salts (E	C5 w/w dw)		
5.4 mmhos/cm	++++++	++++++++++++	+++++	
dry wt.	SloReleas	e> < Average Nut	trient Release Rate > <high< td=""><td>Available Nutrients</td></high<>	Available Nutrients
Lime Content (CaCO3)				
5.1 Lbs/ton	++++++			
dry wt.	< Low >	< Average	e > < High Lime Cont	ent (as CaCO3)

V

What are the physical properties of your compost?						
Percent Ash						
46.8 Percent	+++++++++	++++++++	++++++++	++++		
dry wt.	< High Organ	nic Matter	> < Ave	erage	> < High Ash Content	
Sieve Size % > 6.3 MM (0.2	25")					
2.8 Percent	+++++++++	++++++++	+			
dry wt.	All Uses	> < Size M	ay Restrict U	ses for Pott	ing mix and Golf Courses	
•						

Account No.: Date Received 06 Aug. 19 Attachment 4

9080167 - 1/1 - 6671 Sample i.d. Public Compost Group: Aug19B No. 15 Sample I.d. No. 1/1 9080167

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

2.4 Low: Good for all uses mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

64

Ammonia N ppm						
360	mature					
Nitrate N ppm						
5.6	immature					
pH value						
7.86	mature					

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.3 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 06 Aug. 19 9080167 - 1/1 - 6671 Sample i.d. Public Compost

Group: Aug19B No. 15 Sample I.d. No. 1/1 9080167

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates maturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

5.4 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

5.1 Average lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

46.8 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

2.8 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:					
Plant Available Nitrogen (PAN) calculations:		Estimated available nutrients for use wher	Estimated available nutrients for use when calculating application rates		
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))			lbs/ton (As Rcvd.)		
X value = If RR < 2 then X = 0.1					
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	2.7		
		Ammonia (NH4-N)	0.52		
If RR > 10 then X = 0.4		Nitrate (NO3-N)	0.01		
Note: If C/N ratio > 15 additional N should be applied.		Available Phosphorus (P2O5*0.64)	5.8		
RR = R	lespiration rate	Available Potassium (K2O)	15.4		



TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

SOIL CONTROL LAB



CODE: FS-compost Account #: 9070089-1/1-6671 Group: Jul19A #33 Reporting Date: July 17, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Feedstock Analysis

Date Received: 02 Jul. 19
Sample Identification: H34 Phase 1
Sample ID #: 9070089 - 1/1

Nutrients-Primary + Secondary	Units	as Received	Dry Weight
Total Nitrogen (N):	%	0.96	1.7
Organic Nitrogen (OrgN):	%	0.90	1.6
Ammonia (NH4-N):	%	0.055	0.094
Nitrate (NO3-N):	%	0.00098	0.0017
Phosphorus (as P2O5):	%	0.30	0.50
Potassium (as K2O):	%	0.65	1.1
Calcium (Ca):	%	0.83	1.4
Magnesium (Mg):	%	0.18	0.32
Sulfate (SO4):	%	0.098	0.17
C/N Ratio	Ratio	20	20
AgIndex	Ratio	4.7	4.7
Carbonates (as CaCO3)	lbs/ton	<0.01	<0.01
Moisture	%	42.1	0
Organic Matter:	%	42.4	73.1
Ash:	%	15.6	26.9
pH value	units	4.47	NA
Salts			
Sodium (Na):	%	0.15	0.26
Chloride (CI):	%	0.26	0.45
Electrical Conductivity (EC5):	mmhos/cm	NA	11
Void Space	% v/v	NA	7.2
Bulk Density	g/cc	0.43	0.26
Void Space (> 4mm fraction):	% v/v	NA	71.6
Volume (> 4mm fraction):	% v/v	NA	88.7
Volume (< 4mm fraction):	% v/v	NA	64.4
Voids left	% v/v	NA	7.2
Size			
Greater than 4 mm fraction:	% w/w	NA	29.7
Less than 4 mm fraction:	% w/w	NA	70.3
*Material Cost (\$ per unit)	\$		NA
*Availability (1=least to 5=most)	Rating		NA

^{*=}Information provided by client for formulation purpose.

Analyst: Assaf Sadeh

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ANALYTICAL CHEMISTS
and
BACTERIOLOGISTS
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Attachment 4

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

SOIL CONTROL LAB



Account #: 9080554-1/1-6671 Group: Aug19D #14 Reporting Date: September 4, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 20 Aug. 19
Sample Identification: Heap 33&34
Sample ID #: 9080554 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.6	1.2	%
Ammonia (NH₄-N):	580	450	mg/kg
Nitrate (NO ₃ -N):	11	8.3	mg/kg
Org. Nitrogen (OrgN):	1.5	1.2	%
Phosphorus (as P_2O_5):	0.53	0.41	%
Phosphorus (P):	2400	1800	mg/kg
Potassium (as K ₂ O):	1.1	0.83	%
Potassium (K):	8900	6900	mg/kg
Calcium (Ca):	1.6	1.2	%
Magnesium (Mg):	0.37	0.29	%
Sulfate (SO ₄ -S):	450	350	mg/kg
Boron (Total B):	21	17	mg/kg
Moisture:	0	22.6	%
Sodium (Na):	0.26	0.20	%
Chloride (CI):	0.41	0.32	%
pH Value:	NA	5.09	unit
Bulk Density :	24	31	lb/cu ft
Carbonates (CaCO ₃):	25	19	lb/ton
Conductivity (EC5):	6.9	NA	mmhos/cm
Organic Matter:	55.3	42.8	%
Organic Carbon:	24.0	18.0	%
Ash:	44.7	34.6	%
C/N Ratio	15	15	ratio
AgIndex	5	5	ratio
B# - 4 - 1 -	D	EDA 1 ! !4	

\neg	Stability Indicators		
	Stability Indicator:	D	
	CO2 Evolution	Respirometery	
	mg CO ₂ -C/g OM/day	13	
	mg CO ₂ -C/g TS/day	7.1	
	Stability Rating	unstable	
	Maturity Indicator: Cucur	mber Bioassay	
	Compost:Vermiculite (v:v)	1:2	
	Emergence (%)	93	
	Seedling Vigor (%)	88	
	Description of Plants	fungus	
		.aga.c	
	Pathogens Results	Units	Rating
	Fecal Coliform < 7.5	MPN/g	pass
	Salmonella < 3	MPN/4g	pass
	Date Tested: 20 Aug. 19	J	•
	Physical Contaminants**	% by weight	
	Total Plastic	< 0.1	
n	Film Plastic	< 0.1	
	Glass	< 0.1	
	Metal	< 0.1	
	Sharps	ND	
		ND	
	Total	< 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	5100	-	mg/kg
Arsenic (As):	3.3	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	11	-	mg/kg
Cobalt (Co)	2.3	-	mg/kg
Copper (Cu):	26	1500	mg/kg
Iron (Fe):	7400	-	mg/kg
Lead (Pb):	13	300	mg/kg
Manganese (Mn):	180	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.4	75	mg/kg
Nickel (Ni):	4.9	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	88	2800	mg/kg

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Page one of three

Account No.: **Date Received** 20 Aug. 19 9080554 - 1/1 - 6671 Sample i.d. Heap 33&34

Sample I.d. No. 1/1 9080554 Group: Aug19D No. 14

INTERPRETATION:

Is Your Compost Stable?

Respiration Rate Biodegradation Rate of Your Pile 13 mg CO2-C/

>|< High For Mulch < Stable Unstable g OM/day > | < Moderately Unstable> | < Is Your Compost Mature? AmmoniaN/NitrateN ratio 53 Ratio VeryMature>|< Mature >|< Immature Ammonia N ppm **580** mg/kg dry wt. VeryMature>|< Mature >|< Immature Nitrate N ppm **11** mg/kg +++++++ >|< Mature dry wt. **Immature** pH value 5.09 units Immature >|< Mature >|< Immature **Cucumber Emergence** 93.3 percent < Immature Is Your Compost Safe Regarding Health? **Fecal Coliform** < 1000 MPN/g dry wt. +++++ < Safe > | < High Fecal Coliform Salmonella Less than 3 /4g dry wt. ++++++ <Safe (none detected) >|< High Salmonella Count(> 3 per 4 grams) Metals US EPA 503 ++++++++ Pass dry wt. <All Metals Pass > < One or more Metals Fail **Does Your Compost Provide Nutrients or Organic Matter?**

Nutrients (N+P2O5+K2O)						
3.2 Percent		+++++++++++				
dry wt.	<low< td=""><td>> < Average</td><td>> < </td><td>High Nutrient Cor</td><td>itent</td><td></td></low<>	> < Average	> <	High Nutrient Cor	itent	
AgIndex (Nutrients / Sodiu	m and Chlo	ride Salts)	((N+P2O	5+K2O) / (Na + C	(I))	
5 Ratio	++++++	+++++++++++	++++			
	Na & Cl	> < Nutrient and	Sodium and Chloride P	rovider > <	Nutrient Provider	
Plant Available Nitrogen (P	AN)	Estimated rele	ase for first season			
3 lbs/ton	++++++	++++				
wet wt.	Low Nitrog	gen Provider> <	Average Nitrogen Pr	rovider	> <high nitrogen="" prov<="" td=""><td>ider</td></high>	ider
C/N Ratio						
15 Ratio	++++++	+++++++++++++++++++++++++++++++++++++++				
	< Nitroger	Release > < N-I	Neutral > < N-Demand>	> < High Nitroger	n Demand	
Soluble Available Nutrients	& Salts (E	C5 w/w dw)				
6.9 mmhos/cm	++++++	+++++++++++	++++++++++++			
dry wt.	SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" td=""></high>					
Lime Content (CaCO3)						
25 Lbs/ton	++++++	+++++++++++	++++++++++++++++	+		
dry wt.	< Low >	< Average	∍ > < High_Lim	ne Content (as Ca	(CO3)	

What are the physical properties of your compost?

Titlat are the physical pro	perace or your t	Jon poot.		
Percent Ash				
44.7 Percent	+++++++++++	++++++++++++	+++++	
dry wt.	< High Organic N	∕latter > <	Average	> < High Ash Content
Sieve Size % > 6.3 MM (0.25)	")			
0.2 Percent	+			
dry wt.	All Uses >	> < Size May Restri	ct Uses for Potting mix a	and Golf Courses
· · · · · · · · · · · · · · · · · · ·				

Attachment 4

Account No.: Date Received 20 Aug. 19 9080554 - 1/1 - 6671 Sample i.d. Heap 33&34

Group: Aug19D No. 14 Sample I.d. No. 1/1 9080554

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

13 High-for mulch mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

53

Ammonia N ppm				
580	immature			
Nitrate N ppm				
11	immature			
pH value				
5.09	immature			

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.2 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 20 Aug. 19 9080554 - 1/1 - 6671 Sample i.d. Heap 33&34

Group: Aug19D No. 14 Sample I.d. No. 1/1 9080554

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

6.9 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

High lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

44.7 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.2 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:	ale Nitragen (DAN) coloulations	Catimated evailable putrients for use when	a colculating application rates
• · · /		Estimated available nutrients for use when calculating application rates	
, ,	organic N)) + ((NH4-N) + (NO3-N))		lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.2
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.90
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.02
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	5.2
RR = F	Respiration rate	Available Potassium (K2O)	16.6



TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

SOIL CONTROL LAB



Account #: 9080170-1/1-6671 Group: Aug19B #18 Reporting Date: August 23, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 06 Aug. 19
Sample Identification: White 1&2
Sample ID #: 9080170 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.7	1.1	%
Ammonia (NH ₄ -N):	1100	770	mg/kg
Nitrate (NO ₃ -N):	11	7.4	mg/kg
Org. Nitrogen (OrgN):	1.6	1.1	%
Phosphorus (as P_2O_5):	0.53	0.35	%
Phosphorus (P):	2300	1600	mg/kg
Potassium (as K ₂ O):	1.1	0.74	%
Potassium (K):	9200	6200	mg/kg
Calcium (Ca):	1.4	0.95	%
Magnesium (Mg):	0.32	0.21	%
Sulfate (SO ₄ -S):	620	420	mg/kg
Boron (Total B):	21	14	mg/kg
Moisture:	0	33.0	%
Sodium (Na):	0.26	0.17	%
Chloride (CI):	0.42	0.28	%
pH Value:	NA	4.28	unit
Bulk Density :	23	34	lb/cu ft
Carbonates (CaCO ₃):	<0.1	<0.1	lb/ton
Conductivity (EC5):	9.8	NA	mmhos/cm
Organic Matter:	58.2	39.0	%
Organic Carbon:	29.0	19.0	%
Ash:	41.8	28.0	%
C/N Ratio	17	17	ratio
AgIndex	5	5	ratio

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/day		18	
	mg CO ₂ -C/g TS/d	lay	10	
	Stability Ratin	g	unstable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermica		1:2	
	Emergence (%)	, ,	93	
	Seedling Vigor (%	6)	82	
	Description of	Plants	fungus	
	Pathogens		Units	Rating
	Fecal Coliform	< 7.5	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 06 Aug	g. 19		
	Physical Contar	ninants**	% by weight	
	Total Plastic		< 0.1	
n	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

, .g			
Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4700	-	mg/kg
Arsenic (As):	2.4	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	13	-	mg/kg
Cobalt (Co)	2.3	-	mg/kg
Copper (Cu):	32	1500	mg/kg
Iron (Fe):	6600	-	mg/kg
Lead (Pb):	12	300	mg/kg
Manganese (Mn):	170	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.5	75	mg/kg
Nickel (Ni):	6.1	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	90	2800	mg/kg

Size Distribution				
MM	% by weight			
> 50	0.0			
25 to 50	0.0			
16 to 25	0.0			
9.5 to 16	0.0			
6.3 to 9.5	0.0			
4.0 to 6.3	0.8			
2.0 to 4.0	6.7			
< 2.0	92.5			
	MM > 50 25 to 50 16 to 25 9.5 to 16 6.3 to 9.5 4.0 to 6.3 2.0 to 4.0 < 2.0	MM % by weight > 50 0.0 25 to 50 0.0 16 to 25 0.0 9.5 to 16 0.0 6.3 to 9.5 0.0 4.0 to 6.3 0.8 2.0 to 4.0 6.7		

"*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 06 Aug. 19 9080170 - 1/1 - 6671 Sample i.d. White 1&2

Group: Aug19B No. 18 Sample I.d. No. 1/1 9080170

INTERPRETATION:

Page one of three

<u>Is</u>	<u>Your</u>	Com	<u>post</u>	Stable?	

Is Your Compost Stable	<u>7</u>				
Respiration Rate	Biodear	adation Rate of Your Pi	le		
18 mg CO2-C/		++++++++++++++++++		+++++++++	+++++++
g OM/day	< Stable > <m< td=""><td>loderately Unstable> <</td><td>Unstable</td><td>> < High F</td><td>or Mulch</td></m<>	loderately Unstable> <	Unstable	> < High F	or Mulch
g uu,			5,12,13,12,12		
	_				
Is Your Compost Mature	<u>)7</u>				
AmmoniaN/NitrateN ratio					
100 Ratio	++++++++++++++	+++++++++++++++++	++++++++++++++	+++++++++	++++++++++++++++
	VeryMature> <	Mature		> < lmn	nature
Ammonia N ppm				•	
1100 mg/kg	++++++++++++++	+++++++++++++++++	++++++++++++++	+++++++++	++++++++++++++++
dry wt.	VeryMature> <	Mature		> < Immatur	е
Nitrate N ppm					
11 mg/kg	+++++++				
dry wt.	< Immature		> < Mature		
pH value					
4.28 units	++++++++++++++	+++++++++++++++			
	< Immature		> < N	/lature >	< Immature
Cucumber Emergence					
93.3 percent		+++++++++++++++++	+++++++++++++		
	< Immature			> <	Mature
Is Your Compost Safe R	enarding Health?				
is rour compost sale it	egarunig ricaitir:				
Fecal Coliform					
< 1000 MPN/g dry w	t. ++++++				
	< Safe		> < Hig	h Fecal Colifor	rm
Salmonella					
Less than 3 /4g dry wt.	++++++				
	<safe (none="" detected<="" td=""><td>d) ></td><td>< High Salmonella C</td><td>Count(> 3 per 4</td><td>grams)</td></safe>	d) >	< High Salmonella C	Count(> 3 per 4	grams)
Metals US EPA 503					
Pass dry wt.	+++++++				
	<all metals="" pass<="" td=""><td>></td><td> < One or more Meta</td><td>als Fail</td><td></td></all>	>	< One or more Meta	als Fail	
Does Your Compost Pro	ovide Nutrients or Ord	ganic Matter?			
-	7740714410114001	Jamo mactor i			
Nutrients (N+P2O5+K2O)					
3.3 Percent	++++++++++++++				
dry wt.		verage	> < High Nutrient C		
AgIndex (Nutrients / Sodio			+P2O5+K2O) / (Na ·	+ CI))	
5 Ratio	++++++++++++++				
		nt and Sodium and Chlo		> < Nutrient P	rovider
Plant Available Nitrogen (ed release for first seas	on		
4 lbs/ton	+++++++++++				
wet wt.	Low Nitrogen Provider	r> < Average Nitro	gen Provider	> <high< td=""><td>Nitrogen Provider</td></high<>	Nitrogen Provider
C/N Ratio					
17 Ratio	+++++++++++++++				
		> < N-Neutral > < N-De	mand> < High Nitro્	gen Demand	
Soluble Available Nutrient					
9.8 mmhos/cm		+++++++++++++++++			
dry wt.	SloRelease> < Avera	ge Nutrient Release Ra	te > <high availa<="" td=""><td>ble Nutrients</td><td></td></high>	ble Nutrients	
Lime Content (CaCO3)					
0 Lbs/ton	+				
dry wt.	< Low > < A	∖verage > < Hig	h Lime Content (as	CaCO3)	
What are the physical pr	roperties of your con	noct?			
What are the physical p	operiles or your com	<u>ipostr</u>			
Percent Ash					
41.8 Percent	++++++++++++++	++++++++++++++			
dry wt.	< High Organic Matte	er > < Averag	e > <	High Ash Cont	tent
Siovo Sizo % > 6.3 MM (0.4)E"\				

Sieve Size % > 6.3 MM (0.25") 0.0 Percent

dry wt.

All Uses

>|< Size May Restrict Uses for Potting mix and Golf Courses

Attachment 4

Account No.: Date Received 06 Aug. 19 9080170 - 1/1 - 6671 Sample i.d. White 1&2

Group: Aug19B No. 18 Sample I.d. No. 1/1 9080170

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

18 High-for mulch mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

100

Ammonia N ppm				
1100	immature			
Nitrate N ppi	m			
11	immature			
pH value				
4.28	immature			

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.3 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Attachment 4

Account No.: Date Received 06 Aug. 19 9080170 - 1/1 - 6671 Sample i.d. White 1&2

Group: Aug19B No. 18 Sample I.d. No. 1/1 9080170

INTERPRETATION: Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

4 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

17 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

9.8 High salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

41.8 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix: Plant Available Nitrogen (PAN) calculations:	Estimated available nutrients for use whe	n calculating application rates
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))	Estimated dyaliable mathematic for dee which	lbs/ton (As Rcvd.)
X value = If RR < 2 then X = 0.1		,
If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.6
If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	1.54
If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.01
Note: If C/N ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	4.7
RR = Respiration rate	Available Potassium (K2O)	14.9

ANALYTICAL CHEMISTS and
BACTERIOLOGISTS
Approved by State of California

TEL: 831-724-5422 Attachment 4 FAX: 831-724-3188 www.compostlab.com

Account #: 9080168-1/1-6671 Group: Aug19B #16 Reporting Date: August 23, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 06 Aug. 19 Sample Identification: H27 Compost Sample ID #: 9080168 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.5	1.3	%
Ammonia (NH ₄ -N):	240	210	mg/kg
Nitrate (NO ₃ -N):	4.1	3.6	mg/kg
Org. Nitrogen (OrgN):	1.5	1.3	%
Phosphorus (as P_2O_5):	0.57	0.50	%
Phosphorus (P):	2500	2200	mg/kg
Potassium (as K ₂ O):	1.1	1.0	%
Potassium (K):	9400	8300	mg/kg
Calcium (Ca):	1.6	1.4	%
Magnesium (Mg):	0.38	0.33	%
Sulfate (SO ₄ -S):	300	260	mg/kg
Boron (Total B):	31	27	mg/kg
Moisture:	0	12.4	%
Sodium (Na):	0.26	0.23	%
Chloride (CI):	0.34	0.30	%
pH Value:	NA	6.53	unit
Bulk Density :	23	27	lb/cu ft
Carbonates (CaCO ₃):	1.5	1.3	lb/ton
Conductivity (EC5):	4.9	NA	mmhos/cm
Organic Matter:	53.7	47.0	%
Organic Carbon:	24.0	21.0	%
Ash:	46.3	40.6	%
C/N Ratio	16	16	ratio
AgIndex	5	5	ratio
Motolo	Drywt	EDA Limit	unito

	Stability Indicator:		
	CO2 Evolution	Respirometery	
	mg CO ₂ -C/g OM/day	7.8	
	mg CO ₂ -C/g TS/day	4.2	
	Stability Rating	moderately unstable	
	Maturity Indicator: Cucur	mber Bioassay	
	Compost:Vermiculite (v:v)	1:2	
	Emergence (%)	100	
	Seedling Vigor (%)	103	
	Description of Plants	healthy	
	Pathogens Results	Units	Rating
	Fecal Coliform < 7.5		pass
	Salmonella < 3	MPN/4g	pass
	Date Tested: 06 Aug. 19	Wii TW Tg	pado
	Physical Contaminants**	% by weight	
	Total Plastic	< 0.1	
1	Film Plastic	< 0.1	
	Glass	< 0.1	
	Metal	< 0.1	
	Sharps	ND	
	Total	< 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	6400	-	mg/kg
Arsenic (As):	3.6	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	15	-	mg/kg
Cobalt (Co)	3.1	-	mg/kg
Copper (Cu):	27	1500	mg/kg
Iron (Fe):	9100	-	mg/kg
Lead (Pb):	15	300	mg/kg
Manganese (Mn):	210	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.9	75	mg/kg
Nickel (Ni):	6.7	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	99	2800	mg/kg

	Size Distribu
M % by weight	MM
50 0.0	> 50
5 to 50 0.0	25 to 50
6 to 25 0.0	16 to 25
5 to 16 0.0	9.5 to 16
3 to 9.5 0.0	6.3 to 9.5
0 to 6.3 1.9	4.0 to 6.3
0 to 4.0 10.3	2.0 to 4.0
2.0 87.8	< 2.0

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 06 Aug. 19 9080168 - 1/1 - 6671 Sample i.d. H27 Compost

Group: Aug19B No. 16 Sample I.d. No. 1/1 9080168

INTERPRETATION:

Page one of three

Is Your Compost Stable?

Respiration Rate 7.8 mg CO2-C/		Biodegradation Rate of Yo	ur Pile		
g OM/day	< Stable	> <moderately unstable=""> </moderately>	< Unstable	> <	High For Mulch
s Your Compost Mature	<u>?</u>				
AmmoniaN/NitrateN ratio					
59 Ratio			+++++++++++++		++++++++++++++++++
Ammonia N ppm	VeryMature> <	Mature		> <	Immature
240 mg/kg	+++++++++	++++++++++++			
dry wt.	VeryMature> <	Mature		> < mr	mature
Nitrate N ppm					
4.1 mg/kg dry wt.	+++ < Immature		> < Mature		
pH value	· IIIIIIataic		7 Wature		
6.53 units	+++++++++	+++++++++++++++++	+++++++++++++	++++	
	< Immature			> < Mature	> < Immature
Cucumber Emergence 100.0 percent	+++++++++		.++++++++++++++	L++++++++	+++++++++++++++
100.0 percent	< Immature				> < Mature
s Your Compost Safe Re	egarding Healt	h?			
Fecal Coliform					
< 1000 MPN/g dry wt.	++++++				
5 ,	< Safe		> <	< High Fecal (Coliform
Salmonella					
Less than 3 /4g dry wt.	++++++ <safe (none="" of<="" td=""><td>latertad)</td><td>> < High Salmone</td><td>alla Count/> 3</td><td>ner 4 grams)</td></safe>	latertad)	> < High Salmone	alla Count/> 3	ner 4 grams)
Metals US EPA 503	Todic (none o	icicolcu)	7 Tilgir Gairione	ila Oodiit(* o	poi + grains)
Pass dry wt.	+++++++				
	<all metals="" pas<="" td=""><td>SS</td><td>> < One or more</td><td>Metals Fail</td><td></td></all>	SS	> < One or more	Metals Fail	
Does Your Compost Pro	vide Nutrients	or Organic Matter?			
Nutrients (N+P2O5+K2O)					
3.2 Percent	+++++++++	++++++++++			
dry wt.	<low< td=""><td>> < Average</td><td>> < High Nutri</td><td>ent Content</td><td></td></low<>	> < Average	> < High Nutri	ent Content	
AgIndex (Nutrients / Sodiu			((N+P2O5+K2O)/	(Na + Cl))	
5 Ratio		++++++++++++++			15
Plant Available Nitrogen (P		Nutrient and Sodium and		> < Nutri	ent Provider
3 lbs/ton	+++++++	Estimated release for first	season		
wet wt.	Low Nitrogen F	Provider> < Average I	Nitrogen Provider	> <	High Nitrogen Provider
C/N Ratio					
16 Ratio	++++++++++	+++++++++++++++++		litura mana Dana	
Soluble Available Nutrients		ease > < N-Neutral > < N	N-Demand> ≤ High i	vitrogen Dem	and
4.9 mmhos/cm		/w uw) +++++++			
dry wt.		Average Nutrient Releas	e Rate > <high a<="" td=""><td>vailable Nutrie</td><td>ents</td></high>	vailable Nutrie	ents
Lime Content (CaCO3)					
1.5 Lbs/ton	++	A.,	t Himb Lines Comton	· / C-CO2)	
dry wt. What are the physical pro	< Low > <		High Lime Conten	(as CaCO3)	
	operues or you	ii compost <u>r</u>			
Percent Ash					
46.3 Percent dry wt.	++++++++++++++++++++++++++++++++++++++	++++++++++++++++++++++++++++++++++++++		> < High Ash	Content
Sieve Size % > 6.3 MM (0.2)		No Matter	Grago	- riigii Asi	I COINCIN
0.0 Percent	+				
drywt	All Hees	SIC Size May Restrict II	C D	1 0 16 0	

dry wt.

All Uses

>|< Size May Restrict Uses for Potting mix and Golf Courses

Attachment 4

Account No.: Date Received 06 Aug. 19 9080168 - 1/1 - 6671 Sample i.d. H27 Compost

Group: Aug19B No. 16 Sample I.d. No. 1/1 9080168

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

7.8 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

59

Ammonia N ppm					
240	240 mature				
Nitrate N ppm					
4.1	immature				
pH value					
6.53	mature				

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.2 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 06 Aug. 19 9080168 - 1/1 - 6671 Sample i.d. H27 Compost

Group: Aug19B No. 16 Sample I.d. No. 1/1 9080168

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

4.9 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

1.5 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

46.3 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
Plant Available Nitrogen (PAN) calculations:		Estimated available nutrients for use when	n calculating application rates
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))			lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		·
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.0
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.42
If RR > 10 then X = 0.4		Nitrate (NO3-N)	0.01
Note: If C/N ratio > 15 additional N should be applied.		Available Phosphorus (P2O5*0.64)	6.4
· · · · · · · · · · · · · · · · · · ·		Available Potassium (K2O)	20.0

ANALYTICAL CHEMISTS
and
BACTERIOLOGISTS
Approved by State of California

SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 9080169-1/1-6671 Group: Aug19B #17 Reporting Date: August 23, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 06 Aug. 19
Sample Identification: H28 Compost
Sample ID #: 9080169 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.5	1.2	%
Ammonia (NH ₄ -N):	450	360	mg/kg
Nitrate (NO ₃ -N):	3.1	2.5	mg/kg
Org. Nitrogen (OrgN):	1.5	1.2	%
Phosphorus (as P_2O_5):	0.59	0.47	%
Phosphorus (P):	2600	2100	mg/kg
Potassium (as K ₂ O):	1.2	0.95	%
Potassium (K):	9900	7900	mg/kg
Calcium (Ca):	1.6	1.3	%
Magnesium (Mg):	0.40	0.32	%
Sulfate (SO ₄ -S):	340	270	mg/kg
Boron (Total B):	20	16	mg/kg
Moisture:	0	20.9	%
Sodium (Na):	0.27	0.22	%
Chloride (CI):	0.38	0.30	%
pH Value:	NA	6.41	unit
Bulk Density :	24	30	lb/cu ft
Carbonates (CaCO ₃):	<0.1	<0.1	lb/ton
Conductivity (EC5):	5.3	NA	mmhos/cm
Organic Matter:	51.7	40.9	%
Organic Carbon:	22.0	17.0	%
Ash:	48.3	38.2	%
C/N Ratio	15	15	ratio
AgIndex	5	5	ratio

_				
	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/	day	5.5	
	mg CO ₂ -C/g TS/c	lay	2.8	
	Stability Rating	g	moderately unstable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermicu	ılite (v:v)	1:2	
	Emergence (%)		100	
	Seedling Vigor (%	(o)	99	
	Description of	Plants	healthy	
	Pathogens	Results	Units	Rating
	Fecal Coliform	< 7.5	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 06 Aug	ı. 19		
	Physical Contan	ninants**	% by weight	
	Total Plastic		< 0.1	
ı	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	 Total		< 0.5	
	I I Ulai		~ 0.5	

9			
Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	6300	-	mg/kg
Arsenic (As):	4.1	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	12	-	mg/kg
Cobalt (Co)	3.0	-	mg/kg
Copper (Cu):	27	1500	mg/kg
Iron (Fe):	9000	-	mg/kg
Lead (Pb):	15	300	mg/kg
Manganese (Mn):	220	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.6	75	mg/kg
Nickel (Ni):	5.6	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	100	2800	mg/kg

_			
	Size Distrik	oution	
	MM	% by weight	
	> 50	0.0	
	25 to 50	0.0	
	16 to 25	0.0	
	9.5 to 16	0.0	
	6.3 to 9.5	0.0	
	4.0 to 6.3	1.0	
	2.0 to 4.0	8.6	
	< 2.0	90.5	
	**Croater th	an 1mm in ciza (Sharn	c greater than 2mm)

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 06 Aug. 19 9080169 - 1/1 - 6671 Sample i.d. H28 Compost

Group: Aug19B No. 17 Sample I.d. No. 1/1 9080169

INTERPRETATION:

Page one of three

<u>IS</u>	<u>Your</u>	Com	<u>post</u>	Stable?

IS Your Compost Stable?	' =			
Respiration Rate	Biodeo	gradation Rate of Your Pil	le	
5.5 mg CO2-C/	+++++++++++++			
g OM/day	< Stable > <	Moderately Unstable> <	Unstable	> < High For Mulch
,		<u> </u>		· · ·
ls Your Compost Mature:	2			
is Your Compost Mature	<u>r</u>			
AmmoniaN/NitrateN ratio	_			
150 Ratio			+++++++++++++	++++++++++++++++++++++++++++++
	VeryMature> <	Mature		> < Immature
Ammonia N ppm				
450 mg/kg		+++++++++++++++++	+++++++++++++	
dry wt.	VeryMature> <	Mature		> < Immature
Nitrate N ppm				
3.1 mg/kg	++		. 1 . 14 .	
dry wt.	< Immature		> < Mature	
pH value				
6.41 units		+++++++++++++++++		+ Mature > < Immature
0	< immature		7	Mature /< mmature
Cucumber Emergence				+++++++++++++++++++++++++++++++++++++++
100.0 percent	< Immature	***************************************		> < Mature
	< iiiiiiiature			/ Mature
ls Your Compost Safe Re	egarding Health?			
	g			
Fecal Coliform				
< 1000 MPN/g dry wt.				
	< Safe		> < Hi	gh Fecal Coliform
Salmonella	++++++			
Less than 3 /4g dry wt.	<safe (none="" detect<="" td=""><td>od/ >1</td><td>∠ Ligh Calmanalla</td><td>Count(> 3 per 4 grams)</td></safe>	od/ >1	∠ Ligh Calmanalla	Count(> 3 per 4 grams)
Metals US EPA 503	Sale (none detect	eu)	< night Saimbheila	Count(> 5 per 4 grams)
Pass dry wt.	+++++++			
Fass dry wt.	<all metals="" pass<="" td=""><td>`</td><td> < One or more Me</td><td>tals Fail</td></all>	`	< One or more Me	tals Fail
	All Metals I ass		- One of more we	idis i dii
Does Your Compost Prov	vide Nutrients or O	rganic Matter?		
Nutrients (N+P2O5+K2O)				
` ,	+++++++++++++			
3.3 Percent			S of I limbs Numbers	Cantant
dry wt.		Average	> < High Nutrient	
AgIndex (Nutrients / Sodiu			+P2O5+K2O) / (Na	+ CI))
5 Ratio	++++++++++++++		aid - Danidal - a	Note: at Description
		ent and Sodium and Chlo		> < Nutrient Provider
Plant Available Nitrogen (P		ated release for first seaso	on	
3 lbs/ton	++++++++++			
wet wt.	Low Nitrogen Provide	er> < Average Nitrog	gen Provider	> <high nitrogen="" provider<="" td=""></high>
C/N Ratio				
15 Ratio	++++++++++++++++++++++++++++++++++++++			D
		> < N-Neutral > < N-Der	mand> < High Nitro	gen Demand
Soluble Available Nutrients				
5.3 mmhos/cm	+++++++++++++			
dry wt.	SioRelease> < Aver	age Nutrient Release Ra	te > <high availa<="" td=""><td>adie nutrients</td></high>	adie nutrients
Lime Content (CaCO3)	ī			
0 Lbs/ton	+ < 1 0W > <	Averege No Hig	h Lima Contant (ac	CaCO2)
dry wt	< 1 OW >1<	AVARAGE SIZ Lia	n I Ima ('ontant (ac	((3(()3)

What are the physical properties of your compost?

dry wt.

< Low >|<

Percent Ash			
48.3 Percent	+++++++++++++++++++++++++++++++++++++++	++++++++++++++	
dry wt.	< High Organic Matter	> < Average	> < High Ash Content
Sieve Size % > 6.3 MM (0.25	")		
0.0 Percent	+		
dry wt.	All Uses > < Size M	ay Restrict Uses for Pottin	ng mix and Golf Courses

Average

>|< High Lime Content (as CaCO3)

Account No.: Date Received 06 Aug. 19 9080169 - 1/1 - 6671 Sample i.d. H28 Compost

Group: Aug19B No. 17 Sample I.d. No. 1/1 9080169

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

5.5 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

150

Ammonia N	ppm	_
450	mature	
Nitrate N ppi	m	
3.1	immature	
pH value		
6.41	immature	

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

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100.0 Percent Cucumb

immature

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Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

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This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 06 Aug. 19 9080169 - 1/1 - 6671 Sample i.d. H28 Compost

Group: Aug19B No. 17 Sample I.d. No. 1/1 9080169

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

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C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

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Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

48.3 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:	ole Nitrogen (PAN) calculations:	Estimated available nutrients for use when	n calculating application rates
	organic N)) + ((NH4-N) + (NO3-N))	Estimated available nutrients for use when	lbs/ton (As Rcvd.)
X value = `	If RR < 2 then X = 0.1		,
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.1
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.72
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.01
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	6.1
RR = F	Respiration rate	Available Potassium (K2O)	19.0

ANALYTICAL CHEMISTS and BACTERIOLOGISTS Approved by State of California

SOIL CONTROLLAR

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

Account #: 9080556-1/1-6671 Group: Aug19D #16 Reporting Date: September 4, 2019

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 20 Aug. 19
Sample Identification: Heap 6 & 7
Sample ID #: 9080556 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.6	1.4	%
Ammonia (NH ₄ -N):	400	340	mg/kg
Nitrate (NO ₃ -N):	7.7	6.7	mg/kg
Org. Nitrogen (OrgN):	1.6	1.4	%
Phosphorus (as P_2O_5):	0.56	0.48	%
Phosphorus (P):	2500	2100	mg/kg
Potassium (as K ₂ O):	1.1	0.94	%
Potassium (K):	9100	7800	mg/kg
Calcium (Ca):	1.5	1.3	%
Magnesium (Mg):	0.36	0.31	%
Sulfate (SO ₄ -S):	380	330	mg/kg
Boron (Total B):	19	16	mg/kg
Moisture:	0	14.0	%
Sodium (Na):	0.26	0.22	%
Chloride (CI):	0.47	0.40	%
pH Value:	NA	6.45	unit
Bulk Density:	25	30	lb/cu ft
Carbonates (CaCO ₃):	8.2	7.1	lb/ton
Conductivity (EC5):	5.5	NA	mmhos/cm
Organic Matter:	50.8	43.7	%
Organic Carbon:	23.0	20.0	%
Ash:	49.2	42.3	%
C/N Ratio	15	15	ratio
AgIndex	4	4	ratio

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/	day	5.1	
	mg CO ₂ -C/g TS/d	lay	2.6	
	Stability Rating	g	moderately unstable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermicu		1:2	
	Emergence (%)	, ,	87	
	Seedling Vigor (%	(o)	94	
	Description of		healthy	
	Pathogens		Units	Rating
	Fecal Coliform	< 7.5	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 20 Aug	j. 19		
	Dhysiaal Canton	.!**	0/	
	Physical Contan	ıınants""	% by weight	
	Total Plastic		< 0.1	
n	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Agilidex		7	Tallo
Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	5800	-	mg/kg
Arsenic (As):	3.7	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	12	-	mg/kg
Cobalt (Co)	2.6	-	mg/kg
Copper (Cu):	24	1500	mg/kg
Iron (Fe):	8400	-	mg/kg
Lead (Pb):	13	300	mg/kg
Manganese (Mn):	190	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.3	75	mg/kg
Nickel (Ni):	5.4	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	87	2800	ma/ka

	Size Distribu	tion	
	MM	% by weight	
	> 50	0.0	
	25 to 50	0.0	
	16 to 25	0.0	
	9.5 to 16	0.0	
	6.3 to 9.5	0.0	
	4.0 to 6.3	1.9	
	2.0 to 4.0	11.0	
	< 2.0	87.1	
16 9.5 6.3 4.0 2.0	to 25 5 to 16 3 to 9.5 0 to 6.3 0 to 4.0 2.0	0.0 0.0 0.0 1.9 11.0	

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 20 Aug. 19 Heap 6 & 7 9080556 - 1/1 - 6671 Sample i.d.

Group: Aug19D No. 16 Sample I.d. No. 1/1 9080556

INTERPRETATION:

Page one of three

Is	Your	Com	post	Stable?

Respiration Rate		Biodegradation Rate of Your Pile		
5.1 mg CO2-C/	+++++++	++++++++		
g OM/day	< Stable	> <moderately unstable=""> <</moderately>	Unstable	> < High For Mulch

Is Your Compost Mature?

AmmoniaN/NitrateN ratio			+++++++++++++++++++++++++++++++++++++++	
52 Ratio	VeryMature> <	Mature		ature
Ammonia N ppm				
400 mg/kg	+++++++++++++++	+++++++++++++++++	+++++++	
dry wt.	VeryMature> <	Mature	> < Immature	
Nitrate N ppm				
7.7 mg/kg	+++++			
dry wt.	< Immature		> < Mature	
pH value				
6.45 units	+++++++++++++++	++++++++++++++++	+++++++++++	
	< Immature		> < Mature > <	: Immature
Cucumber Emergence				
86.7 percent	++++++++++++++	+++++++++++++++++	+++++++++++++++++++++++++++++++++++++++	+++++
	< Immature		> < N	/lature

Is Your Compost Safe Regarding Health?

Fecal Coliform < 1000 MPN/g dry wt.	++++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)					
3.3 Percent	++++++	+++++++++++	++++		
dry wt.	<low< td=""><td>> < Average</td><td>e > < High</td><td>Nutrient Conter</td><td>nt</td></low<>	> < Average	e > < High	Nutrient Conter	nt
AgIndex (Nutrients / Sodius	m and Chlo	ride Salts)	((N+P2O5+K	20) / (Na + Cl))	
4 Ratio	++++++	+++++++++++	++		
	Na & Cl	> < Nutrient and	Sodium and Chloride Provide	der > < Ni	utrient Provider
Plant Available Nitrogen (P	AN)	Estimated rele	ease for first season		
3 lbs/ton	++++++	++++			
wet wt.	Low Nitrog	gen Provider> <	Average Nitrogen Provid	er	> <high nitrogen="" provider<="" td=""></high>
C/N Ratio					
15 Ratio	++++++	+++++++++++	++++++		
	< Nitroger	Release > < N-	Neutral > < N-Demand> < I	High Nitrogen De	emand
Soluble Available Nutrients	& Salts (E	C5 w/w dw)			
5.5 mmhos/cm	++++++	+++++++++++	+++++		
dry wt.	SloReleas	e> < Average Nu	trient Release Rate > <h< td=""><td>ligh Available Nu</td><td>ıtrients</td></h<>	ligh Available Nu	ıtrients
Lime Content (CaCO3)					
8.2 Lbs/ton	++++++	++++			
dry wt.	< Low >	< Average	e > < High Lime Co	ontent (as CaCC	03)

What are the physical pro	<u>perties of your compos</u>	<u>st?</u>		
Percent Ash				
49.2 Percent	+++++++++++++++++++++	+++++++++++++++		
dry wt.	< High Organic Matter	> < Average	> < High Ash Content	
Sieve Size % > 6.3 MM (0.25	")			
0.0 Percent	+			
dry wt.	All Uses > < Size I	May Restrict Uses for Pottir	ng mix and Golf Courses	
-				

Attachment 4

Account No.: Date Received 20 Aug. 19 9080556 - 1/1 - 6671 Sample i.d. Heap 6 & 7

Group: Aug19D No. 16 Sample I.d. No. 1/1 9080556

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

5.1 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

52

Ammonia N ppm								
400	mature							
Nitrate N ppr	n							
7.7	immature							
pH value								
6.45	immature							

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

86.7 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.3 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Attachment 4

Account No.: Date Received 20 Aug. 19 9080556 - 1/1 - 6671 Sample i.d. Heap 6 & 7

Group: Aug19D No. 16 Sample I.d. No. 1/1 9080556

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

5.5 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

8.2 Average lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

49.2 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:								
Plant Availab	ole Nitrogen (PAN) calculations:	Estimated available nutrients for use wher	Estimated available nutrients for use when calculating application rates					
PAN = (X * (a))	organic N)) + ((NH4-N) + (NO3-N))		lbs/ton (As Rcvd.)					
X value =	If RR < 2 then X = 0.1							
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.4					
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.68					
	If RR > 10 then X = 0.4	Nitrate (NO3-N)	0.01					
Note: If C/N r	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	6.1					
RR = R	Respiration rate	Available Potassium (K2O)	18.8					

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 10/01/2019 To 12/31/2019

					From	10/01/2	2019 To 1		019					
			FOOD W	ASTE			WAS				CHRIS ⁻	TMAS		
DATE	FOOD W	ASTE	MULTI	PLE	GREEN	NERY	MULT	IPLE	WOOD V	VASTE	TRE	ES	ТОТ	ALS
DAIL													TOTAL#	
	LOADS	TONE	LOADS	TONE	LOADS	TONE	LOADS	TONE	LOADS	TONE	LOADS	TONE	OF LOADS	TOTAL TONS
40/04/0040											LUADS	TONS		
10/01/2019	2	14.24 11.05	2	7.56 8.86	216 189		1	4.22	12	6.12 9.9			230 205	422.75 337.03
10/02/2019	6	21.22	1	0.83	183				6	4.13			196	288.5
10/04/2019	6	20.23	1	4.39	222	364.5			12	10.46			241	399.6
10/05/2019	2	6.21	2	11.29	326				12	14.66			342	303.08
10/07/2019	4	13.59	2	15.2	227	456.8			12	12.62			245	498.2
10/08/2019	7	22.75	3	10.44	205	359.4	1	4.36	10	14.04			226	410.99
10/09/2019	1	2.92	2	8.44	201	309.7			20	21.81			224	342.89
10/10/2019	5	12.24	2	5.02	215	260.9			11	14.06			233	292.23
10/11/2019	5	18.77	2	8.41	189	278.9			12	12.78			208	318.82
10/12/2019	3	10.1	1	1.38	310	273.9	1	1.71	10	6.42			325	293.55
10/14/2019	4	16.33	2	15.96	266	445.5			4	4.11			276	481.89
10/15/2019	7	19.23	2	3.95	204	366.7			12	11.8			225	401.67
10/16/2019	2	5.69	2	10.69	188	283.3	1	3.84	10	8.45			203	311.94
10/17/2019	6	9.79	1	2.24	181	259.9			11	9.15			199	281.11
10/18/2019	6	16.69	2	9.71	208	334	1	0.8	7	9.01			224	370.16
10/19/2019	2	4.6	1	1.26	324	267.7	1	0.69	14	10.22			342	284.44
10/21/2019	5	15.96	3	22.77	245	460.9			8	9.22			261	508.89
10/22/2019	6	23.82	2	4.65	230	378.3	2	10.78	7	7.32			247	424.89
10/23/2019	2	8.04	3	14.37	205	284.7			8	10.26			218	317.41
10/24/2019	4	6.48	1	0.44	164	199.5	1	3.56	7	9.49			177	219.49
10/25/2019	5	15.72	2	9.99	193	270	1	0.71	10	21.57			211	318.02
10/26/2019	2	10.88	1	1.37	276	222.7			12	11.89			291	246.79
10/28/2019	4	15.56	2	13.52	223	380.3			8	5.12			237	414.49
10/29/2019	5	13.52	2	8.42	201	348.4	2	11.49	12	21.97			222	403.79
10/30/2019	2	9.65	2	8.08	212	304.5			5	4.68			221	326.91
10/31/2019	6	14.12	1	0.5	194	263.3			14	15.29			215	293.19
Monthly Total	113	359.4	49	209.7	5997	8605	12	42.16	273	296.6	0	0	6444	9512.72

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 10/01/2019 To 12/31/2019

					1 10111	10/01/2	019 10 1		013					
							GREE	7			211512			
		T	FOOD W		0055	IED.	WAS		W000 W	OTE	CHRIST		TOT	
DATE	FOOD W	VASIE	MULTI	PLE	GREEN	NERY	MULT	PLE	WOOD V	VASIE	TRE	ES	TOT	ALS
													TOTAL#	
													OF	TOTAL
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS
11/01/2019	4	12.08	1	3.81	217	278.1	1	0.76	6	11.66			229	306.42
11/02/2019	2	5.1	2	10.84	316	309.8			13	8.72			333	334.42
11/04/2019	3	8.9			232	424			9	9.01			244	441.89
11/05/2019	5	18.46	2	5.88	223	357.9	1	8.29	9	7.19			240	397.67
11/06/2019	1	3.07	2	8.13	193	284.2	1	3.56	11	14.67			208	313.61
11/07/2019	4	13.62			195	269.5			10	9.72			209	292.84
11/08/2019	4	12.01	2	15.68	213	328.7			9	8.11			228	364.5
11/09/2019	2	4.9	1	1.76	262	214.1			11	12.15			276	232.94
11/11/2019	4	23.81	3	17.61	206	367.8			7	5.56			220	414.8
11/12/2019	6	16.69	2	4.57	204	361	1	3.96	9	9.92			222	396.13
11/13/2019	2	9.65	3	11.96	186	274.1			10	12.36			201	308.06
11/14/2019	6	13.8	1	0.15	159	227.3			9	11.48			175	252.74
11/15/2019	5	12.86	2	6.92	196	295.4			14	13.01			217	328.22
11/16/2019	3	9.07	1	1.53	306	256.8			11	6.86			321	274.27
11/18/2019	3	11.05	3	16.42	227	471.7			11	9.87			244	509
11/19/2019	9	36.22	2	4.02	223	384.2			12	16.52			246	440.98
11/20/2019	1	2.64	3	8.79	62	152.6			9	6.71			75	170.7
11/21/2019	5	8.07	1	0.18	75	150.1			11	12.88			92	171.21
11/22/2019	5	14.8	2	6.99	126	248.1	1	0.59	3	3.09			137	273.61
11/23/2019	3	10.55	1	2.29	283	247.3			5	3.45			292	263.61
11/25/2019	3	9.5	3	14.96	248	458.8			10	9.1			264	492.37
11/26/2019	8	26.11	2	1.44	232	392.9	1	3.6	11	11.11			254	435.11
11/27/2019	6	15.37	3	10.05	157	257.2			19	16.71			185	299.32
11/29/2019	6	16.25	2	10.35	46	75.16			4	4.53			58	106.29
11/30/2019	3	5.56	2	3.62	31	85	1	0.51					37	94.69
Monthly Total	103	320.1	46	168	4818	7172	7	21.27	233	234.4	0	0	5207	7915.4

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 10/01/2019 To 12/31/2019

		FIGHT 10/01/2019 TO 12/31/2												
			FOOD W	ASTE			WAS				CHRIST	гмаѕ		
DATE	FOOD W	/ASTE	MULTI		GREEN	IERY	MULT		WOOD V	VASTE	TRE		ТОТ	ALS
DATE													TOTAL#	
	10450	TONG	10450	TONG	10450	TONO	10450	TONO	10450	TONO	10450	TONO	OF	TOTAL
	LOADS						LUADS	IONS	LOADS		LUADS	IONS	LOADS	TONS
12/02/2019	3	9.58	3	15.76	187	386.3			21	36.12			214	447.76
12/03/2019	6	24.59	1	1.35	239	384			9	11.7			255	421.67
12/04/2019	2	5.11	2	6.68	25	97.16			1	3.17			30	112.12
12/05/2019	6	10.66			95	175.1			8	8.42			109	194.18
12/06/2019	5	9.4	2	9.92	154	284.7	2	3.51	3	1.77			166	309.3
12/07/2019	4	17.18	1	1.85	71	67.83			3	2.07	1	1.31	80	90.24
12/09/2019	4	9.25	2	13.35	126	306.1			7	8.12			139	336.86
12/10/2019	6	22.35	1	3.96	163	307.8	2	11.03	15	15.47			187	360.61
12/11/2019	2	6.01	2	11.47	191	317.1			8	13.1			203	347.63
12/12/2019	7	23.48	1	0.41	165	249			10	11.6			183	284.44
12/13/2019	5	9.12	3	14.98	182	306.4	1	0.68	12	18.77			203	349.94
12/14/2019	3	13.47	1	1.87	244	214.2			6	7.11			254	236.63
12/16/2019	4	12.55	1	6.83	239	452.2			13	9.77			257	481.33
12/17/2019	6	27.17	2	3.92	175	349.9	2	14.08	22	24.42			207	419.52
12/18/2019	1	2.43	3	13.36	156	290.6			16	15.64			176	322
12/19/2019	8	12.13	1	0.48	155	249.7			8	10.57			172	272.91
12/20/2019	3	7.65	2	9.36	146	303	2	2.96	9	9.78	1	1.43	163	334.15
12/21/2019	4	15.02	1	1.2	244	245			8	6.52	1	0.69	258	268.41
12/23/2019	2	5.34	2	13.31	64	251.9			2	1.88	2	1.38	72	273.79
12/24/2019	7	18.58	2	4.66	80	178.3	1	2.43	5	5.72	1	2.65	96	212.34
12/26/2019	6	9.185	2	10.46	37	82.71	1	1.06	6	5.22	5	2.88	57	111.515
12/27/2019	3	8.86			99	175.1			6	11.19	14	23.84	122	218.99
12/28/2019	3	10.19	2	9.72	154	211.4	1	0.6	12	9.8	12	25.96	184	267.71
12/30/2019	3	8.67	3	16.55	147	310.4			11	10.21	21	59.51	185	405.37
12/31/2019	4	16.57	1	1.58	153	243.1	1	2.07	4	3.92	16	26.57	179	293.82
Montly Total	107	314.5	41	173.0	3691	6439	13	38.42	225	262.1	74	146.2	4151	7373.24
Sum:	323	994.1	136	550.7	14506	22215	32	101.9	731	793	74	146.2	15802	24801.4

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

		ОСТОВ	ER 2019	
DATE	SPECIAL			
DATE	OCCURRENCES	COMMENTS	Tons of Contamina	nts Removed
10/1/2019	NSO			0
10/2/2019	NSO			0
10/3/2019	NSO			0
10/4/2019	NSO			7.75
10/5/2019	NSO			5.08
10/6/2019	NSO	Closed		0
10/7/2019	NSO			0
10/8/2019	NSO			0
10/9/2019	NSO			0
10/10/2019	NSO			0
10/11/2019	NSO			0
10/12/2019	NSO			0
10/13/2019	NSO	Closed		0
10/14/2019	NSO			12.65
10/15/2019	NSO	Windy		0
10/16/2019	NSO			0
10/17/2019	NSO			0
10/18/2019	NSO			8.27
10/19/2019	NSO			0
10/20/2019	NSO	Closed		0
10/21/2019	NSO			5.53
10/22/2019	NSO			0
10/23/2019	NSO			6.41
10/24/2019	NSO			0
10/25/2019	NSO			0
10/26/2019	NSO			0
10/27/2019	NSO	Closed		0
10/28/2019	NSO			0
10/29/2019	NSO			0
10/30/2019	NSO			7.62
10/31/2019				0
		Monthly Total		53.31

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

		NOVEMBER 2019	
DATE	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
11/1/2019	NSO		0
11/2/2019	NSO		0
11/3/2019		Closed	0
11/4/2019	NSO		19.46
11/5/2019	NSO		0
11/6/2019	NSO		0
11/7/2019	NSO		0
11/8/2019	NSO		5.77
11/9/2019	NSO		0
11/10/2019		Closed	0
11/11/2019	NSO		0
11/12/2019	NSO		0
11/13/2019	NSO		0
11/14/2019	NSO		15.48
11/15/2019	NSO		0
11/16/2019	NSO		0
11/17/2019		Closed	0
11/18/2019	NSO		0
11/19/2019	NSO		0
11/20/2019	NSO	Rain PM	0
11/21/2019	NSO	Rain AM/Muddy	0
11/22/2019	NSO	Muddy	0
11/23/2019	NSO		0
11/24/2019		Closed	0
11/25/2019	NSO		0
11/26/2019	NSO		19.74
11/27/2019	NSO	Rain PM	0
11/28/2019		Closed/Heavy Rain	0
11/29/2019	NSO	Muddy	0
11/30/2019	NSO		19.9
		Monthly Total	80.35

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

	DECEMBER 2019									
DATE	SPECIAL									
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed							
12/1/2019		Closed	0							
12/2/2019	NSO		0							
12/3/2019	NSO		0							
12/4/2019	NSO	Rain/Muddy	0							
12/5/2019	NSO	Muddy	0							
12/6/2019	NSO	Muddy	0							
12/7/2019	NSO	Muddy	8.75							
12/8/2019		Closed	0							
12/9/2019	NSO	Muddy	0							
12/10/2019	NSO	Muddy	0.77							
12/11/2019	NSO		0							
12/12/2019	NSO		0							
12/13/2019	NSO		10.38							
12/14/2019	NSO		0							
12/15/2019		Closed	0							
12/16/2019	NSO		0							
12/17/2019	NSO		10.9							
12/18/2019	NSO		16.46							
12/19/2019	NSO		0							
12/20/2019	NSO		0							
12/21/2019	NSO		0							
12/22/2019		Closed	0							
12/23/2019	NSO	Rain/Muddy	0							
12/24/2019	NSO	Rain/Muddy	30.08							
12/25/2019		Closed	0							
12/26/2019	NSO	Rain/Muddy	0							
12/27/2019	NSO	Muddy	0							
12/28/2019	NSO		0							
12/29/2019		Closed	0							
12/30/2019	NSO		0							
12/31/2019			0							
		Monthly Total	77.34							

		Incom	ing Tons	3							Outgo	ing Yards			
Month/ Year	Clean Greens	Wood	X-Mas	Food Waste	Drywall/ Animal Bedding	Total	Greens Trash	ADC	Miramar Slope Mulch	Other Internal Mulch	Other Internal Chips	Other Internal Compost		Sales (cubic	yards)
			Trees	waste	in FY11		tons	yards	yards	yards	yards	yards	ALL Mulch	Compost & Overs	All Woodchips
								Totals							
FY09 Totals	94,078	4,361	922	2,162	73	101,596	912	2,545	38,178	11,330	0	0	28,993	20,102	22,817
E)/40 T		1 1		1				Totals							
FY10 Totals	97,041	3,344	983	1,896	0	103,264	800	4,445	25,710	5,000	0	0	29,911	25,328	19,828
FY11 Totals	04.700	3,121	1,037	2.400	12	98,379	792	Totals 32,644	13,754	0	0	0	24.060	10.175	46 070
FITTIOLAIS	91,799	3,121	1,037	2,409	12	90,379		Totals	13,734	U	U	U	24,060	19,175	16,878
FY12 Totals	88,507	3,419	1,035	3,689	60	96,710	676	52,068	18.304	3.950	0	0	27,015	26,731	17,168
	55,55	,	.,,,,,	0,000		- 44,		Totals	,						,
FY13 Totals	90,555	3,339	1,085	5,396	127	100,502	881	65,370	16,520	0	0	0	45,676	29,546	17,764
							FY14	Totals							
FY14 Totals	90,198	3,753	1,040	7,481	310	102,782	653	54,840	8,360	0	0	2,106	52,894	30,302	13,369
								Totals							
FY15 Totals	87,292	4,368	857	9,388	166	102,071	911	31,940	6,932	0	0	0	56,516	30,667	15,648
EVAC Totale	22.522	1 0 4 5	4.000	= 00F		405.005		Totals	E 004	1 4==			70.000	04.004	10.100
FY16 Totals	92,590	4,645	1,096	7,605	0	105,935	1,020	15,356 Totals	5,021	175	0	0	78,828	24,901	16,103
FY17 Totals	89,727	4,554	986	7,786	0	103,052	858	33,124	3,164	2,044	0	0	68,671	22,823	14,011
1117 Totals	09,727	4,334	300	1,100	U	103,032		Totals	3,104	2,044	U	U	00,071	22,023	14,011
FY18 Totals	87,369	3,809	677	7,514	0	99,369	982	15,564	19,668	0	0	1,340	55,038	19,407	11,298
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		-	,-		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	FY18	Totals	.,			, , , ,	,	-, -	,
FY19 Totals	85,656	3545	686.71	6,671	0	96,558	1164	3352	48,288	0	0	46500	50,007	17,526	7,804
Jul-19	8511		0		0		80.05	0			0	0			782
Aug-19	8153		0	573	0		105.26	0						2939	375
Sep-19	7613	333	0		0		68.68	0			_				208
Oct-19	8647	297	0	000	0	9513	53.31	0	•	0	-		_		375
Nov-19 Dec-19	7193 6478		0		0		80.35 77.34	0						1072 707	534 234
Jan-20	0478	202	U	408	U	1228	11.34	U	U	0	"	0	2002	707	234
Feb-20															
Mar-20															
Apr-20															
May-20															
Jun-20															
FY20 Totals	46,595	1862	0	3,255	0	51,712	465	0	5,096	0	0	0	16,853	8,737	2,508

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ANALYTICAL CHEMISTS
and
BACTERIOLOGISTS
Approved by State of California

TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

SOIL CONTROL LAB



CODE: FS-compost
Account #: 9120674-1/1-6671
Group: Dec19C #63
Reporting Date: January 3, 2020

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Feedstock Analysis

Date Received: 20 Dec. 19
Sample Identification: Feedstock
Sample ID #: 9120674 - 1/1

Nutrients-Primary + Secondary	Units	as Received	Dry Weight
Total Nitrogen (N):	 %	0.77	1.4
Organic Nitrogen (OrgN):	%	0.76	1.4
Ammonia (NH4-N):	%	0.014	0.025
Nitrate (NO3-N):	%	0.00019	0.00034
Phosphorus (as P2O5):	%	0.23	0.41
Potassium (as K2O):	%	0.60	1.1
Calcium (Ca):	%	0.79	1.4
Magnesium (Mg):	%	0.18	0.33
Sulfate (SO4):	%	0.039	0.069
C/N Ratio	Ratio	30	30
AgIndex	Ratio	7.1	7.1
Carbonates (as CaCO3)	lbs/ton	<0.01	<0.01
Moisture	%	44.0	0
Organic Matter:	%	45.7	81.6
Ash:	%	10.3	18.4
pH value	units	5.02	NA
Salts			
Sodium (Na):	%	0.14	0.25
Chloride (CI):	%	0.086	0.15
Electrical Conductivity (EC5):	mmhos/cm	NA	6.0
Void Space	% v/v	NA	3.5
Bulk Density	g/cc	0.40	0.22
Void Space (> 4mm fraction):	% v/v	NA	58.8
Volume (> 4mm fraction):	% v/v	NA	74.1
Volume (< 4mm fraction):	% v/v	NA	55.3
Voids left	% v/v	NA	3.5
Size			
Greater than 4 mm fraction:	% w/w	NA	31.4
Less than 4 mm fraction:	% w/w	NA	68.6
*Material Cost (\$ per unit)	\$		NA
*Availability (1=least to 5=most)	Rating		NA

^{*=}Information provided by client for formulation purpose.

Analyst: Assaf Sadeh

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ANALYTICAL CHEMISTS
and
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SOIL CONTROL LAB



Account #: 9120675-1/1-6671 Group: Dec19C #59 Reporting Date: January 3, 2020

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 20 Dec. 19
Sample Identification: Heap 50
Sample ID #: 9120675 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.8	1.6	%
Ammonia (NH ₄ -N):	460	400	mg/kg
Nitrate (NO ₃ -N):	3.5	3.0	mg/kg
Org. Nitrogen (OrgN):	1.8	1.5	%
Phosphorus (as P_2O_5):	0.60	0.52	%
Phosphorus (P):	2700	2300	mg/kg
Potassium (as K ₂ O):	1.1	0.93	%
Potassium (K):	9000	7700	mg/kg
Calcium (Ca):	1.3	1.1	%
Magnesium (Mg):	0.32	0.27	%
Sulfate (SO ₄ -S):	220	190	mg/kg
Boron (Total B):	28	24	mg/kg
Moisture:	0	14.4	%
Sodium (Na):	0.30	0.25	%
Chloride (CI):	0.22	0.19	%
pH Value:	NA	5.51	unit
Bulk Density:	22	25	lb/cu ft
Carbonates (CaCO ₃):	< 0.1	< 0.1	lb/ton
Conductivity (EC5):	6.5	NA	mmhos/cm
Organic Matter:	56.5	48.4	%
Organic Carbon:	31.0	26.0	%
Ash:	43.5	37.3	%
C/N Ratio	17	17	ratio
AgIndex	7	7	ratio

	Stability Indicat	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM	/day	15	
	mg CO ₂ -C/g TS/	day	8.5	
	Stability Ratin	g	unstable	
	Maturity Indicat	or: Cucum	ber Bioassay	
	Compost:Vermic		1:2	
	Emergence (%)	, ,	80	
	Seedling Vigor (9	%)	87	
	Description of	f Plants	healthy	
	Pathogens	Results	Units	Rating
	Fecal Coliform	32	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 20 De	c. 19		
	Physical Contar	minants**	% by weight	
	Total Plastic		< 0.1	
n	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4900	-	mg/kg
Arsenic (As):	2.8	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	10	-	mg/kg
Cobalt (Co)	2.3	-	mg/kg
Copper (Cu):	28	1500	mg/kg
Iron (Fe):	7000	-	mg/kg
Lead (Pb):	11	300	mg/kg
Manganese (Mn):	140	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.4	75	mg/kg
Nickel (Ni):	6.9	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	88	2800	mg/kg

_		_	
	Size Distrib	ution	
	MM	% by weight	
	> 50	0.0	
	25 to 50	0.0	
	16 to 25	0.0	
	9.5 to 16	0.0	
	6.3 to 9.5	0.0	
	4.0 to 6.3	2.2	
	2.0 to 4.0	12.4	
	< 2.0	85.4	
	**Crooter the	on 1mm in aiza (Cha	rne greater than 2mm

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 20 Dec. 19 9120675 - 1/1 - 6671 Sample i.d. Heap 50

Group: Dec19C No. 59 Sample I.d. No. 1/1 9120675

INTERPRETATION: Page one of three

Is Your Compost Stable?

Is Your Compost Stable	_	()/ B"	
Respiration Rate	Biodegradation Rate		
15 mg CO2-C/	++++++++++++++++++++++++++++++++++++++		> < High For Mulch
g OM/day	< Stable > Noderately Units	able/ Utistable	/ High For Mulch
1- V 0 (M-(0		
Is Your Compost Mature	<u>17</u>		
AmmoniaN/NitrateN ratio			
130 Ratio			+++++++++++++++++++++++++++++++++++++++
Ammonio N nom	VeryMature> < Matur	e	> < Immature
Ammonia N ppm 460 mg/kg	+++++++++++++++++++++++++++++++++++++++	+++++++++++++++++++++	+
dry wt.	VeryMature> < Matur	e	> < Immature
Nitrate N ppm			
3.5 mg/kg	++		
dry wt.	< Immature	> < Mature	
pH value 5.51 units	+++++++++++++++++++++++++++++++++++++++		
5.51 units	< Immature		Mature > < Immature
Cucumber Emergence	minicalo		nataro i inimataro
80.0 percent	+++++++++++++++++++++++++++++++++++++++	++++++++++++++++++++++	++++++++++
•	< Immature		> < Mature
Is Your Compost Safe R	egarding Health?		
	ogaranig ricanir.		
Fecal Coliform			
< 1000 MPN/g dry wt	++++++ < Safe	SI< High	h Fecal Coliform
Salmonella	· Sale	7 1 ligh	III ecai Collioitii
Less than 3 /4g dry wt.	++++++		
, , , , , , , , , , , , , , , , , , ,	<safe (none="" detected)<="" td=""><td>>I< High Salmonella C</td><td>count(> 3 per 4 grams)</td></safe>	>I< High Salmonella C	count(> 3 per 4 grams)
		i ngi camicina c	
Metals US EPA 503		i iigii saimerisia s	Tame of the second
Metals US EPA 503 Pass dry wt.	+++++++		
	++++++++ <all metals="" pass<="" td=""><td>> < One or more Meta</td><td></td></all>	> < One or more Meta	
Pass dry wt.		> < One or more Meta	
Pass dry wt. Does Your Compost Pro	<all metals="" pass<="" td=""><td>> < One or more Meta</td><td></td></all>	> < One or more Meta	
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O)	<all metals="" pass<="" td=""><td>> < One or more Meta</td><td></td></all>	> < One or more Meta	
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent	<all a="" metals="" pass<=""> vide Nutrients or Organic Matter</all>	> < One or more Meta	als Fail
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O)	<all a="" metals="" pass<=""> vide Nutrients or Organic Matte ++++++++++++++++++++++++++++++++++</all>	> < One or more Meta	als Fail Content
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt.	<all metals="" p="" pass<=""> vide Nutrients or Organic Matter ++++++++++++++++++++++++++++++++++</all>	> < One or more Meta er? + > < High Nutrient C ((N+P2O5+K2O) / (Na +	Content + CI))
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. AgIndex (Nutrients / Sodiu 7 Ratio	<all metals="" p="" pass<=""> vide Nutrients or Organic Matter ++++++++++++++++++++++++++++++++++</all>	> < One or more Meta er? +	als Fail Content
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. AgIndex (Nutrients / Sodiu 7 Ratio Plant Available Nitrogen (I	All Metals Pass vide Nutrients or Organic Matter ++++++++++++++++++++++++++++++++++	> < One or more Meta er? +	Content + CI))
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. Aglndex (Nutrients / Sodiu 7 Ratio Plant Available Nitrogen (I 4 lbs/ton	All Metals Pass vide Nutrients or Organic Matter ++++++++++++++++++++++++++++++++++	> < One or more Meta er? + > < High Nutrient C ((N+P2O5+K2O) / (Na + +++++++ m and Chloride Provider r first season	Content + CI)) - < Nutrient Provider
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. Aglndex (Nutrients / Sodiu 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt.	All Metals Pass vide Nutrients or Organic Matter ++++++++++++++++++++++++++++++++++	> < One or more Meta er? +	Content + CI))
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. AgIndex (Nutrients / Sodiu 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt. C/N Ratio	All Metals Pass vide Nutrients or Organic Matter ++++++++++++++++++++++++++++++++++	> < One or more Meta er? + > < High Nutrient C ((N+P2O5+K2O) / (Na + +++++++ m and Chloride Provider r first season erage Nitrogen Provider	Content + CI)) - < Nutrient Provider
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. Aglndex (Nutrients / Sodiu 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt.	<all metals="" p="" pass<=""> vide Nutrients or Organic Matter ++++++++++++++++++++++++++++++++++</all>	> < One or more Meta er? +	Content + CI)) > < Nutrient Provider > <high nitrogen="" provider<="" td=""></high>
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. AgIndex (Nutrients / Sodiu 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt. C/N Ratio	All Metals Pass vide Nutrients or Organic Matter ++++++++++++++++++++++++++++++++++	> < One or more Meta er? +	Content + CI)) > < Nutrient Provider > <high nitrogen="" provider<="" td=""></high>
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. Aglndex (Nutrients / Sodiu 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt. C/N Ratio 17 Ratio	**All Metals Pass **Vide Nutrients or Organic Matter ***********************************	> < One or more Meta er? +	Content + CI)) > < Nutrient Provider > <high demand<="" gen="" nitrogen="" provider="" td=""></high>
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. Aglndex (Nutrients / Sodiu 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt. C/N Ratio 17 Ratio Soluble Available Nutrient 6.5 mmhos/cm dry wt.	All Metals Pass vide Nutrients or Organic Matter ++++++++++++++++++++++++++++++++++	> < One or more Meta er? +	Content + CI)) > < Nutrient Provider > <high demand<="" gen="" nitrogen="" provider="" td=""></high>
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. AgIndex (Nutrients / Sodio 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt. C/N Ratio 17 Ratio Soluble Available Nutrient 6.5 mmhos/cm dry wt. Lime Content (CaCO3)	**************************************	> < One or more Meta er? +	Content + CI)) > < Nutrient Provider > <high demand<="" gen="" nitrogen="" provider="" td=""></high>
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Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. AgIndex (Nutrients / Sodio 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt. C/N Ratio 17 Ratio Soluble Available Nutrient 6.5 mmhos/cm dry wt. Lime Content (CaCO3) 0 Lbs/ton dry wt. What are the physical pro	**************************************	> < One or more Meta er? +	Content + CI)) > < Nutrient Provider > <high ble="" demand="" gen="" nitrogen="" nutrients<="" provider="" td=""></high>
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. AgIndex (Nutrients / Sodiu 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt. C/N Ratio 17 Ratio Soluble Available Nutrient 6.5 mmhos/cm dry wt. Lime Content (CaCO3) 0 Lbs/ton dry wt.	**************************************	> < One or more Meta er? +	Content + CI)) > < Nutrient Provider > <high ble="" demand="" gen="" nitrogen="" nutrients<="" provider="" td=""></high>
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. Aglndex (Nutrients / Sodio 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt. C/N Ratio 17 Ratio Soluble Available Nutrient 6.5 mmhos/cm dry wt. Lime Content (CaCO3) 0 Lbs/ton dry wt. What are the physical property of the content of th	All Metals Pass vide Nutrients or Organic Matter ++++++++++++++++++++++++++++++++++	> < One or more Meta er? +	Content + CI)) > < Nutrient Provider > <high ble="" demand="" gen="" nitrogen="" nutrients<="" provider="" td=""></high>
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. AgIndex (Nutrients / Sodiu 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt. C/N Ratio 17 Ratio Soluble Available Nutrient 6.5 mmhos/cm dry wt. Lime Content (CaCO3) 0 Lbs/ton dry wt. What are the physical pro Percent Ash 43.5 Percent dry wt. Sieve Size % > 6.3 MM (0.2	All Metals Pass vide Nutrients or Organic Matter ++++++++++++++++++++++++++++++++++	> < One or more Meta er? +	Content + CI)) > < Nutrient Provider > <high ble="" caco3)<="" demand="" gen="" nitrogen="" nutrients="" provider="" td=""></high>
Pass dry wt. Does Your Compost Pro Nutrients (N+P2O5+K2O) 3.5 Percent dry wt. AgIndex (Nutrients / Sodiu 7 Ratio Plant Available Nitrogen (I 4 lbs/ton wet wt. C/N Ratio 17 Ratio Soluble Available Nutrient 6.5 mmhos/cm dry wt. Lime Content (CaCO3) 0 Lbs/ton dry wt. What are the physical pro Percent Ash 43.5 Percent dry wt.	All Metals Pass	> < One or more Meta er? +	Content + CI)) > < Nutrient Provider > <high ash="" ble="" caco3)="" content<="" demand="" gen="" high="" nitrogen="" nutrients="" provider="" td=""></high>

Account No.: Date Received 20 Dec. 19 9120675 - 1/1 - 6671 Sample i.d. Heap 50

Group: Dec19C No. 59 Sample I.d. No. 1/1 9120675

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

15 High-for mulch mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

130

Ammonia N	ppm
460	mature
Nitrate N ppr	n
3.5	immature
pH value	
5.51	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

80.0 Percent Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.5 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 20 Dec. 19 9120675 - 1/1 - 6671 Sample i.d. Heap 50

Group: Dec19C No. 59 Sample I.d. No. 1/1 9120675

INTERPRETATION: Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

- 4 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

 C/N Ratio
- 17 Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 6.5 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

43.5 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix: Plant Available Nitrogen (PAN) calculations:		Estimated available nutrients for use where	o calculating application rates
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		Estimated available nutrients for use when	lbs/ton (As Rcvd.)
X value = If RR < 2 then X = 0.1			,
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.9
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.80
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.01
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	6.7
RR = F	Respiration rate	Available Potassium (K2O)	18.5



Date Sampled/Received: 19 Dec. 19 / 20 Dec. 19

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego

CA 92123

Product Identification

Public Compost

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	42 Hangar Way; Watsonville, CA 9507	6 <i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	Not reported	Not reported
Moisture Content	%, wet weight basis	22.0	
Organic Matter Content	%, dry weight basis	50.8	
pН	units	6.51	
Soluble Salts (electrical conductivity EC 5)	dS/m (mmhos/cm)	4.7	
Particle Size or Sieve Size	maxium aggregate size, inches	0.64	
Stability Indicator (respirometry)		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day	5.7	Moderately Un-Stable
	mg CO ₂ -C/g TS/day	2.9	Wioderatery Oil-Stable
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	80.0	
Relative Seedling Vigor	average % of control	91.1	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Pass	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	rass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Dec19C	Laboratory Number: 9120673-1/1
Analyst: Assaf Sadeh	any Sole	www.compostlab.com



Date Sampled/Received: 19 Dec. 19 / 20 Dec. 19

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego

CA 92123

Product Identification

Public Compost

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab	; 42 Hangar Way; Watsonville, CA 9507	'6 <i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	Total N	1.3	1.7
Phosphorus	P_2O_5	0.48	0.61
Potassium	K ₂ O	0.93	1.2
Calcium	Ca	1.4	1.8
Magnesium	Mg	0.32	0.41
Moisture Content	%, wet weight basis	22.0	
Organic Matter Content	%, dry weight basis	50.8	
рН	units	6.51	
Soluble Salts (electrical conductivity EC ₅)	dS/m (mmhos/cm)	4.7 98.4	
Particle Size or Sieve Size	% under 9.5 mm, dw basis		
Stability Indicator (respirometry	y)		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day mg CO ₂ -C/g TS/day	5.7	Moderately Un-Stable
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	80.0	
Relative Seedling Vigor	average % of control	91.1	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Dece	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Dec19C	Laboratory Number:	9120673-1/1
Analyst: Assaf Sadeh	asy Solel	www.compostlab.com	



City of San Diego Environmental Services

Burton Ewert 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego CA 92123

Product	Identifi	ication:
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Public Compost

Date Sampled/Received: 19 Dec. 19 / 20 Dec. 19

Caltrans

COMPOST TECHNICAL DATA SHEET for Caltrans

LABORATORY: Soil Control Lab, 42 Hangar Way, Watsonville, CA 95076 tel (831) 724-5422 fax (831) 724-3188 www.compostlab.com

Compost Parameters Test Results Reported as (units of measure)			TMECC Test
			Method
pH	6.51	Unitless	04.11-A 1:5 Slurry pH
Soluble Salts	4.7	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method
(electrical conductivity)	4.7	dis/iii (iiiiiiiios/ciii)	Mass Basis
Moisture content	22.0	%, wet weight basis	03.09-A - Total Solids and Moisture
Organic Matter Content	50.8	%, dry weight basis	05.07-A Loss-on-Ignition
Organic Watter Content	30.0	70, dry weight busis	Organic Matter Method (LOI)
Maturity Indicator (bioassay)			
Percent Emergence	80.0	average % of control	05.05-A Germination and vigor
Relative Seedling Vigor	91.1	average % of control	
			05.08-B Carbon Dioxide
Stability Indicator	5.7	mg CO2-C/g OM/day	Evoultion Rate
		%, dry weight passing through	02.02-B Sample Sieving for
Particle Size	98.4	9.5 mm	Aggregate Size Classification
Pathogens	Pass	PASS/FAIL: Per US EPA Class A	07.01-B Fecal coliforms
ramogens	1 dss	standard, 40 CFR 503.32(a)	07.01-B recai comornis
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.02 Samonella
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Total content
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Sharps content
Harry Matala Contant	Dage	PASS/FAIL: Per US EPA Class A	04.06-Heavy Metals standard,
Heavy Metals Content	Pass	40 CFR 503.13, tables 1 and 3.	and Hazardous Elements

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org.

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality. or suitability for any particular use.

Laboratory	Group:	Dec19C	Laboratory	Number:	9120673-1/1
	6.01		-		

Analyst: Assaf Sadeh

www.compostlab.com



TEL: 831-724-5422 FAX: 831-724-3188 www.compostlab.com

SOIL CONTROL LAB



Account #: 9120673-1/1-6671 Group: Dec19C #58 Reporting Date: January 3, 2020

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 20 Dec. 19
Sample Identification: Public Compost
Sample ID #: 9120673 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.7	1.3	%
Ammonia (NH ₄ -N):	460	360	mg/kg
Nitrate (NO ₃ -N):	5.6	4.4	mg/kg
Org. Nitrogen (OrgN):	1.7	1.3	%
Phosphorus (as P_2O_5):	0.60	0.47	%
Phosphorus (P):	2700	2100	mg/kg
Potassium (as K ₂ O):	1.2	0.92	%
Potassium (K):	9800	7700	mg/kg
Calcium (Ca):	1.8	1.4	%
Magnesium (Mg):	0.41	0.32	%
Sulfate (SO ₄ -S):	190	150	mg/kg
Boron (Total B):	33	26	mg/kg
Moisture:	0	22.0	%
Sodium (Na):	0.29	0.23	%
Chloride (CI):	0.22	0.18	%
pH Value:	NA	6.51	unit
Bulk Density:	26	34	lb/cu ft
Carbonates (CaCO ₃):	< 0.1	< 0.1	lb/ton
Conductivity (EC5):	4.7	NA	mmhos/cm
Organic Matter:	50.8	39.6	%
Organic Carbon:	25.0	20.0	%
Ash:	49.2	38.4	%
C/N Ratio	15	15	ratio
AgIndex	7	7	ratio

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/	/day	5.7	
	mg CO ₂ -C/g TS/d	day	2.9	
	Stability Ratin	g	moderately unstable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermic		1:2	
	Emergence (%)	, ,	80	
	Seedling Vigor (%	6)	91	
	Description of	Plants	fungus	
	Pathogens	Results	Units	Rating
	Fecal Coliform	< 7.5	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 20 De	c. 19		
	Physical Contar	ninants**	% by weight	
	Total Plastic		< 0.1	
า	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	5900	-	mg/kg
Arsenic (As):	3.5	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	20	-	mg/kg
Cobalt (Co)	3.2	-	mg/kg
Copper (Cu):	35	1500	mg/kg
Iron (Fe):	8900	-	mg/kg
Lead (Pb):	14	300	mg/kg
Manganese (Mn):	180	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.9	75	mg/kg
Nickel (Ni):	7.8	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	110	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	1.6	
6.3 to 9.5	2.4	
4.0 to 6.3	6.6	
2.0 to 4.0	11.5	
< 2.0	77.9	
**Croator th	on 1mm in ciza (Sh	arns areater than 2mm)

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 20 Dec. 19 9120673 - 1/1 - 6671 Sample i.d. Public Compost

Dec19C No. 58 Sample I.d. No. 1/1 9120673 Group:

INTERPRETATION:

Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile	1		
5.7 mg CO2-C/	+++++++	++++++++++			
g OM/day	< Stable	> <moderately unstable=""> <</moderately>	Unstable	> < High For Mulch	

Is Your Compost Mature?

AmmoniaN/NitrateN ratio 82 Ratio	++++++++++++++	+++++++++	+++++++++++++++	++++++++++++
OZ IValio	VeryMature> <	Mature	> < Immature	
Ammonia N ppm				
460 mg/kg	+++++++++++++++	+++++++++++++++++	++++++	
dry wt.	VeryMature> <	Mature	> < Immature	
Nitrate N ppm				
5.6 mg/kg	++++			
dry wt.	< Immature		> < Mature	
pH value				
6.51 units	+++++++++++++++	+++++++++++++++++	++++++++++++	
	< Immature		> < Mature > < Imma	ature
Cucumber Emergence				
80.0 percent	+++++++++++++++	++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++	
	< Immature		> < Mature	

Is Your Compost Safe Regarding Health?

Fecal Coliform		
< 1000 MPN/g dry wt.	++++++	
	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail
		•

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)					
3.5 Percent	++++++	+++++++++++	+++++		
dry wt.	<low< td=""><td>> < Average</td><td>e > <</td><td>High Nutrient</td><td>Content</td></low<>	> < Average	e > <	High Nutrient	Content
AgIndex (Nutrients / Sodiu	m and Chlor	ide Salts)	((N+P2C	05+K2O) / (Na	a + Cl))
7 Ratio	++++++	++++++++++++	++++++++++++		
	Na & Cl	> < Nutrient and	Sodium and Chloride F	Provider	> < Nutrient Provider
Plant Available Nitrogen (P	AN)	Estimated rele	ease for first season		
3 lbs/ton	++++++	++++			
wet wt.	Low Nitrog	en Provider> <	Average Nitrogen P	rovider	> <high nitrogen="" provider<="" td=""></high>
C/N Ratio					
15 Ratio	++++++	++++++++++++	++++++		
	< Nitrogen	Release > < N-	-Neutral > < N-Demand	> < High Nitr	ogen Demand
Soluble Available Nutrients	& Salts (EC	5 w/w dw)			
4.7 mmhos/cm	++++++	++++++++++++	+++		
dry wt.	SloRelease	e> < Average Nu	trient Release Rate	> <high avai<="" td=""><td>able Nutrients</td></high>	able Nutrients
ime Content (CaCO3)					
0 Lbs/ton	+				
dry wt.	< Low > <	Average	e > < High Lin	ne Content (a	s CaCO3)

V

What are the physical properties of your compost?							
Percent Ash							
49.2 Percent	+++++++						
dry wt.	< High Organic Matter > Average > High Ash Content						
Sieve Size % > 6.3 MM (0.25")							
4.0 Percent	+++++++++++++++++++++++++++++++++++++++						
dry wt.	Il Uses > < Size May Restrict Uses for Potting mix and Golf Courses						

Account No.: Date Received 20 Dec. 19 9120673 - 1/1 - 6671 Sample i.d. Public Compost

Group: Dec19C No. 58 Sample I.d. No. 1/1 9120673

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

5.7 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

82

Ammonia N ppm					
460	mature				
Nitrate N ppm					
5.6	immature				
pH value					
6.51	mature				

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

80.0 Percent Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.5 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

ATTACHMENT 4

Account No.: Date Received 20 Dec. 19 9120673 - 1/1 - 6671 Sample i.d. Public Compost

Group: Dec19C No. 58 Sample I.d. No. 1/1 9120673

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio

Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

4.7 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

49.2 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

4.0 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
Plant Availab	ole Nitrogen (PAN) calculations:	Estimated available nutrients for use wher	n calculating application rates
PAN = (X * (a))	organic N)) + ((NH4-N) + (NO3-N))		lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.3
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.72
	If RR > 10 then X = 0.4	Nitrate (NO3-N)	0.01
Note: If C/N r	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	6.1
RR = R	Respiration rate	Available Potassium (K2O)	18.5



Environmental Services Department

Disposal & Environmental Protection Division

April 27, 2020

Mr. Bill Prinz Program Manager Solid Waste Local Enforcement Agency Development Services Department City of San Diego 9601 Ridgehaven Ct, Ste. 220, MS1102B San Diego, CA 92123

Subject: Miramar Greenery Fiscal Year 2020 3rd Quarter Monitoring Report

Dear Mr. Prinz:

The City of San Diego's Environmental Services Department is submitting this report in compliance with the Self-Monitoring requirements in Compostable Materials Handling Facility Permit number 37-AB-0003 for the Miramar Greenery. The reporting period is for January through March, 2020.

Attachment 1 reports the daily tonnage received by material type and number of vehicles using the site. Attachment 2 summarizes the Log of Special Occurrences, Load Check results and includes quantities of "contaminants" hauled to the landfill. Attachment 3 summarizes the volume of product leaving the facility per month. Attachment 4 details soil testing for feedstock analysis and pathogenic organisms, metals and contaminants as required by 14 CCR, Chapter 3.1, and Article 7.

If you have any questions or comments regarding this report, please feel free to contact me at 858-627-3321 or jhay@sandiego.gov.

Sincerely

James Hay, P.E.

Senior Mechanical Engineer

JH/bce

Enclosures:

- 1. Transaction Counts and Tonnage by Day and Material Type
- 2. Special Occurrences Log
- 3. Greens Summary Report
- 4. Soil Test Results

cc: Gene Matter, Director, Environmental Services Department Hassan Yousef, Assistant Director, Environmental Services Department Renee Robertson, Deputy Director, Environmental Services Department

9601 Ridgehaven Ct., Ste. 310, MS 1103-A San Diego, CA 92123

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 01/02/2020 To 03/31/2020

DATE	CHRISTMA	S TREES	FOOD V	VASTE	FOOD \		GREE	NERY	GREENS MULT		WOOD		тот/	
57.1.2	LOADO	TONG	10450	TONG	10450	TONO	10450	TONG	10450	TONO	10450		TOTAL # OF LOADS	TOTAL TONS
04/00/0000	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS		
01/02/2020	29	32.6	7	18.49	1	4.86	140	231.2			15	13.41	192	300.56
01/03/2020 01/04/2020	18 55	18.94 79.26	3 2	7.89 2.88	2	11.0	159 238	223.11 312.17			13	15.69	193 307	265.63
01/06/2020	16	31.93	4	14.11	3	11.9 3.7	230	411.52			5	13.53 3.45	247	419.74 464.71
01/07/2020	15	18.38	8	20.63	2	3.86	185	355.44	1	2.59	7	9.83	218	410.73
	16		0	3.03					1	2.59			194	
01/08/2020 01/09/2020	15	20.33	6	7.49	3	7.91 0.51	158	242.26 234.02	1	4.48	16 6	17.33 12.12	161	290.86 273.52
01/10/2020	5	3.27	4	10.49	2	9.66	132 162	290.37	3	5.2	10	14.5	186	333.49
01/11/2020	29	61.99	2	4.82	1	1.43	277	242.46	3	5.2	11	15.99	320	326.69
01/13/2020	13	28.75	5	20.03	1	5.7	198	433.58			10	10.82	227	498.88
01/14/2020	4	3.94	5	14.95	1	2.4	177	285.92	2	10.87	8	9.9	197	327.98
01/15/2020	4	5.17	3	10.22	1	3.63	199	294.05	2	10.07	9	8.11	216	321.18
01/16/2020	5	2.6	7	21.73	1	0.45	166	234.95	1	4.47	7	6.35	187	270.55
01/17/2020	7	4.34	4	10.08	2	8.51	136	246.7	1	2.13	3	3.4	153	275.16
01/18/2020	20	12.7	3	10.47	2	11.33	261	219.09	1	2.10	12	10.16	298	263.75
01/20/2020	18	39.16	2	10.36	2	12.38	229	370.77			8	8.9	259	441.57
01/21/2020	10	00.10	6	29.21	2	4.44	110	260.8	1	2.84	4	7.11	123	304.4
01/22/2020	2	1.38	1	2.62	2	6.53	149	244.48		2.01	14	13.97	168	268.98
01/23/2020	5	2.32	4	7.64	1	0.38	131	212.83			12	11.8	153	234.97
01/24/2020	2	0.82	3	4.42	3	17.96	181	330.66	3	8.44	9	6.81	201	369.11
01/25/2020	14	17.24	3	15.58	1	5.65	265	222.78	J	0.11	10	7.98	293	269.23
01/27/2020			7	22.61	2	11.61	201	388.12			6	8.23	216	430.57
01/28/2020			4	19.08	2	4.02	185	324.19	2	7.31	7	8.64	200	363.24
01/29/2020	5	3.45	1	2.84	2	6.84	173	280.08		01	8	6.96	189	300.17
01/30/2020	2	0.87	7	24.65	1	1.46	190	265.67	1	7.24	8	8.69	209	308.58
01/31/2020	2	1.1	3	5.92	3	16.44	193	326.15	2		14	14.23	217	366.37
Monthly Total	301	405.44	105	322.24	43	163.56	4816	7483.37	18		241	267.91	5524	8700.62

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 01/02/2020 To 03/31/2020

DATE	CHRISTMA	AS TREES	FOOD V	VASTE	FOOD \		GREEI	NERY	GREENS MULT		WOOD	WASTE	тот/	ALS
5/112													TOTAL # OF	TOTAL
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS
02/01/2020	12	5.81	3	8.73	1	1.27	276	218.23			15	11.01	307	245.05
02/03/2020			4	13.64	2	11.68	202	349.73			8	6.12	216	381.17
02/04/2020			7	28.28	2	4.24	158	294.1	2	6.09	10	10.78	179	343.49
02/05/2020			3	10.72	2	7.02	183	284.25			6	7.63	194	309.62
02/06/2020			4	10.74	1	0.72	171	273.98	1	4.68	12	18.95	189	309.07
02/07/2020	4	2.19	4	11.39	2	13.28	185	281.66	2	2.92	12	11.5	209	322.94
02/08/2020	4	2.19	4	18.53	1	1.34	246	200.33			10	7.6	265	229.99
02/10/2020			4	15.29	1	6.4	88	286.56			7	8.28	100	316.53
02/11/2020			6	21.5	2	4.31	106	226.18	1	2.22	4	7.08	119	261.29
02/12/2020	1	0.12	1	2	2	7.84	169	285.62	1	3.68	5	4.42	179	303.68
02/13/2020	1	0.69	7	27.55	1	0.63	144	202.52			10	12.55	163	243.94
02/14/2020	2	1.1	4	8.7	2	14.94	185	324.3	2	3.5	13	11.63	208	364.17
02/15/2020	1	0.69	3	10.54	1	6.96	263	217.02			16	14.16	284	249.37
02/17/2020			4	16.6	1	7.43	224	374.39			9	10.26	238	408.68
02/18/2020			9	29.19	1	2.45	191	329.12	2	8.19	12	15.27	215	384.22
02/19/2020			2	3.2	1	3.28	187	256.69			13	17.31	203	280.48
02/20/2020	1	0.69	4	10.24	1	1.15	144	207.75			8	7.57	158	227.4
02/21/2020			4	13.32			195	283.93			10	18.26	209	315.51
02/22/2020			5	20.43	1	6.11	96	73.67			7	7.57	109	107.78
02/24/2020	1	0.12	4	14.28	2	16.55	172	376.2			15	18.24	194	425.39
02/25/2020			5	18.88	2	4.41	162	283.06	1	9.49	9	13.44	179	329.28
02/26/2020			1	3.01	2	7.83	181	284.89			11	11.5	195	307.23
02/27/2020			6	17.16	1	2.23	152	213.84			10	15.69	169	248.92
02/28/2020			4	12.07	2	13.75	187	322.17	2	3.2	18	17.4	213	368.59
02/29/2020			2	6.55	1	4.2	255	214.28			13	11.22	271	236.25
Monthly Total	27	13.6	104	352.54	35	150.02	4522	6664.47	14	43.97	263	295.44	4965	7520.04

City of San Diego, Environmental Services - Transaction Counts and Tons, By Day and Material Type

Report ID: T1DMND0013756

From 01/02/2020 To 03/31/2020

					FOOD V				GREENS					
DATE	CHRISTMA	AS TREES	FOOD V	VASTE	MULT	IPLE	GREE	NERY	MULT	IPLE	WOOD	WASTE	TOTA	
													TOTAL # OF	TOTAL
	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS	LOADS	TONS
03/02/2020	1	0.41	3	13.21	2	10.26	185	333.63			5	4.48	196	361.99
03/03/2020			8	34.61	2	6.58	175	337.69	2	9.33	10	8.03	197	396.24
03/04/2020			1	2.75	3	9.82	157	261.5			6	4.13	167	278.2
03/05/2020			6	13.72	1	4.2	142	198.35			7	6.65	156	222.92
03/06/2020			3	8.42	3	11.3	188	310.15	2	3.41	7	7.88	203	341.16
03/07/2020	2	0.82	4	15.2	1	1.46	222	187.57			4	4.38	233	209.43
03/09/2020			3	11.02	3	15.87	237	464.33			7	7.54	250	498.76
03/10/2020			5	14.72	2	4.49	60	173.29	1	3.44	5	4.55	73	200.49
03/11/2020			2	7.08	3	9.13	110	229.9	1	3.44	6	9.87	122	259.42
03/12/2020			5	11.08	1	1.03	53	116.58			4	5.11	63	133.8
03/13/2020			5	13.13	3	11.02	63	175.97	1	1.83	5	9.94	77	211.89
03/14/2020			3	4.77	1	1.51	96	83.57			5	3.9	105	93.75
03/16/2020			2	7.29	3	13.07	158	292.63			5	7.27	168	320.26
03/17/2020	1	0.41	8	18.21	2	3.65	124	309.34	2	8.95	6	5.29	143	345.85
03/18/2020			1	1.89	3	7.54	53	175.62					57	185.05
03/19/2020			5	4.79	1	1.02	60	86.46	1	2.78	6	6.59	73	101.64
03/20/2020			3	5.87	3	7.15	117	221.18	2	3.86	7	8.45	132	246.51
03/21/2020			3	5.67	1	0.89	173	129.11			5	3.2	182	138.87
03/23/2020			2	3.59	3	6.95	136	377.08			3	3.79	144	391.41
03/24/2020			5	10.62	2	1.5	42	262.26	2	12.37	3	5.83	54	292.58
03/25/2020			1	2.03	3	3.85	34	190.07			4	8.51	42	204.46
03/26/2020			4	3.08	1	1.23	31	151.42			2	3.16	38	158.89
03/27/2020			4	4.7	2	2.99	37	230.34	1	2.57	1	1.25	45	241.85
03/28/2020			2	2.94	1	1.24	2	7.98					5	12.16
03/30/2020			2	5.43	2	2.65	45	312.55			2	4.53	51	325.16
03/31/2020			3	3.83	1	0.52	53	361.45			4	11.21	61	377.01
Monthly Total	4	1.64	93	229.65	53	140.92	2753	5980.02	15	51.98	119	145.54	3037	6549.75
Sum:	332	420.68	302	904.43	131	454.5	12091	20127.86	47	154.05	623	708.89	13526	22770.41

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

		JANUARY 2020	
DATE	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
1/1/2020		Closed	0
1/2/2020	NSO		0
1/3/2020	NSO		0
1/4/2020	NSO		0
1/5/2020	NSO	Closed	0
1/6/2020	NSO		0
1/7/2020	NSO		13.57
1/8/2020	NSO		0
1/9/2020	NSO		0
1/10/2020	NSO		12.95
1/11/2020	NSO		0
1/12/2020	NSO	Closed	0
1/13/2020	NSO		0
1/14/2020	NSO		8.86
1/15/2020	NSO		0
1/16/2020	NSO		0
1/17/2020	NSO	AM Rain	0
1/18/2020	NSO		0
1/19/2020	NSO	Closed	0
1/20/2020	NSO		0
1/21/2020	NSO	Rain/Muddy	17.77
1/22/2020	NSO		0
1/23/2020	NSO		0
1/24/2020	NSO		0
1/25/2020	NSO		0
1/26/2020	NSO	Closed	0
1/27/2020	NSO		0
1/28/2020	NSO		0
1/29/2020	NSO		0
1/30/2020	NSO		0
1/31/2020	NSO		0
		Monthly Total	53.15

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

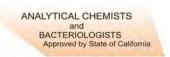
		FEBRUARY 2	020
DATE	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
2/1/2020	NSO		14.82
2/2/2020	NSO	Closed	0
2/3/2020	NSO		0
2/4/2020	NSO		0
2/5/2020	NSO		0
2/6/2020	NSO		0
2/7/2020	NSO		16.49
2/8/2020	NSO		0
2/9/2020	NSO	Closed	0
2/10/2020	NSO		0
2/11/2020	NSO		0
2/12/2020	NSO		0
2/13/2020	NSO		0
2/14/2020	NSO		0
2/15/2020	NSO		32.88
2/16/2020	NSO	Closed	0
2/17/2020	NSO		0
2/18/2020	NSO		0
2/19/2020	NSO		0
2/20/2020	NSO		0
2/21/2020	NSO		0
2/22/2020	NSO		6.71
2/23/2020	NSO	Closed/Rain	0
2/24/2020	NSO	Muddy	0
2/25/2020	NSO		0
2/26/2020	NSO		19.74
2/27/2020	NSO		0
2/28/2020	NSO		0
2/29/2020	NSO		3.9
		Monthly Total	94.54

SUMMARY OF LOG OF SPECIAL OCCURRENCES AND LOAD CHECK PROGRAM AT MIRAMAR GREENERY

		MARCH 2020	
DATE	SPECIAL		
DATE	OCCURRENCES	COMMENTS	Tons of Contaminants Removed
3/1/2020	NSO	Closed	0
3/2/2020	NSO		0
3/3/2020	NSO		7.99
3/4/2020	NSO		0
3/5/2020	NSO		0
3/6/2020	NSO		10.67
3/7/2020	NSO		8.75
3/8/2020	NSO	Closed	0
3/9/2020	NSO		0
3/10/2020	NSO	Rain	0
3/11/2020	NSO	Muddy	0
3/12/2020	NSO	Light Rain	10.73
3/13/2020	NSO	PM Rain	0
3/14/2020	NSO	AM Rain/Muddy	0
3/15/2020	NSO	Closed	0
3/16/2020	NSO	PM Rain	8.74
3/17/2020	NSO	Muddy	0
3/18/2020	NSO	Muddy	0
3/19/2020	NSO		0
3/20/2020	NSO	PM Rain	0
3/21/2020	NSO	Muddy	0
3/22/2020	NSO	Closed/ PM Rain	0
3/23/2020	NSO		0
3/24/2020	NSO		0
3/25/2020	NSO		0
3/26/2020	NSO		0
3/27/2020	NSO	AM Rain	0
3/28/2020	NSO		0
3/29/2020		Closed	0
3/30/2020			0
3/31/2020	NSO		0
		Monthly Total	46.88

		Incom	ing Tons	5							Outgo	ing Yards			
Month/ Year	Clean Greens	Wood	X-Mas	Food	Drywall/ Animal	Total	Greens Trash	ADC	Miramar Slope Mulch	Other Internal Mulch	Other Internal Chips	Other Internal Compost		Sales (cubic	yards)
			Trees	Waste	Bedding in FY11		tons	yards	yards	yards	yards	yards	ALL Mulch	Compost & Overs	All Woodchips
							FY09	Totals							
FY09 Totals	94,078	4,361	922	2,162	73	101,596	912	2,545	38,178	11,330	0	0	28,993	20,102	22,817
								Totals							
FY10 Totals	97,041	3,344	983	1,896	0	103,264	800	4,445	25,710	5,000	0	0	29,911	25,328	19,828
								Totals							
FY11 Totals	91,799	3,121	1,037	2,409	12	98,379	792	32,644	13,754	0	0	0	24,060	19,175	16,878
FY12 Totals		0.440	4.005	0.000		00 740		Totals	40.004	0.050			07.045	00.704	47.400
FT12 TOtals	88,507	3,419	1,035	3,689	60	96,710	676	52,068 Totals	18,304	3,950	0	0	27,015	26,731	17,168
FY13 Totals	90,555	3,339	1,085	5,396	127	100,502	881	65,370	16,520	0	0	0	45,676	29,546	17,764
1 1 13 Totals	30,333	3,339	1,005	3,330	121	100,302		Totals	10,320	U	U	U	45,070	29,340	17,704
FY14 Totals	90,198	3,753	1.040	7,481	310	102,782	653	54.840	8,360	0	0	2,106	52,894	30,302	13,369
1114 101410	30,130	0,700	1,040	7,401	0.0	102,702		Totals	0,000			2,100	0 <u>2</u> ,004	00,002	10,000
FY15 Totals	87,292	4,368	857	9,388	166	102,071	911	31.940	6,932	0	0	0	56,516	30,667	15,648
		.,		0,000	.,,,	,		Totals	0,002					30,00.	10,010
FY16 Totals	92,590	4,645	1,096	7,605	0	105,935	1.020	15,356	5,021	175	0	0	78,828	24,901	16,103
	,	, ,	,	,	-		FY17	Totals						, , ,	- ,
FY17 Totals	89,727	4,554	986	7,786	0	103,052	858	33,124	3,164	2,044	0	0	68,671	22,823	14,011
							FY18	Totals		•	•				
FY18 Totals	87,369	3,809	677	7,514	0	99,369	982	15,564	19,668	0	0	1,340	55,038	19,407	11,298
							FY18	Totals							
FY19 Totals	85,656	3545	686.71	6,671	0	96,558	1164	3352	48,288	0	0	46500	50,007	17,526	7,804
Jul-19	8511	332	0		0		80.05	0						-	782
Aug-19	8153	314	0	573	0	9040	105.26	0		0				2939	375
Sep-19	7613	333	0		0		68.68	0		0					208
Oct-19	8647	297	0		0		53.31	0		0				1434	375
Nov-19 Dec-19	7193 6478	324 262	0	488 488	0	8005 7228	80.35 77.34	0	000	0				1072 707	534 234
Jan-20	7541	262	405	486	0		53.15	0		_	-				630
Feb-20	6708	295	14	503	0	7520	94.54	0		0				743	895
Mar-20	6032	146	2	371	0	6550	46.88	0		0	-	-		873	573
Apr-20	3002	- 10						Ť	.201	Ť	Ĭ			3.0	0.0
May-20															
Jun-20															
FY20 Totals	66,877	2570.9	421	4,614	0	74,483	660	0	6,300	0	0	0	26,363	11,103	4,606

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SOIL CONTROL LAB

TEL: 831-724-5422 FAX: 831-724-3188 www.controllabs.com

Account #: 20654-1/1-6671 Group: Feb20D #26 Reporting Date: March 13, 2020

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 26 Feb. 20 Sample Identification: Heap 66 Sample ID #: 20654 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.8	1.5	%
Ammonia (NH ₄ -N):	270	230	mg/kg
Nitrate (NO ₃ -N):	6.2	5.3	mg/kg
Org. Nitrogen (OrgN):	1.8	1.5	%
Phosphorus (as P_2O_5):	0.59	0.51	%
Phosphorus (P):	2600	2200	mg/kg
Potassium (as K ₂ O):	1.3	1.1	%
Potassium (K):	11000	9200	mg/kg
Calcium (Ca):	1.5	1.2	%
Magnesium (Mg):	0.33	0.28	%
Sulfate (SO ₄ -S):	350	300	mg/kg
Boron (Total B):	26	22	mg/kg
Moisture:	0	14.8	%
Sodium (Na):	0.38	0.33	%
Chloride (CI):	0.53	0.45	%
pH Value:	NA	6.36	unit
Bulk Density :	23	26	lb/cu ft
Carbonates (CaCO ₃):	< 0.1	< 0.1	lb/ton
Conductivity (EC5):	5.4	NA	mmhos/cm
Organic Matter:	56.6	48.3	%
Organic Carbon:	25.0	22.0	%
Ash:	43.4	37.0	%
C/N Ratio	14	14	ratio
AgIndex	4	4	ratio

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/	day	11	
	mg CO ₂ -C/g TS/c	lay	6.4	
	Stability Rating	g	unstable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermicu	ılite (v:v)	1:2	
	Emergence (%)		93	
	Seedling Vigor (%	(o)	97	
	Description of	Plants	fungus	
	Pathogens	Results	Units	Rating
	Fecal Coliform	670	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 26 Feb	. 20		
	Physical Contan	ninants**	% by dry wt	
	Total Plastic		< 0.1	
n	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Aginuex	- +	- +	Tallo
Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4400	-	mg/kg
Arsenic (As):	3.1	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	13	-	mg/kg
Cobalt (Co)	2.6	-	mg/kg
Copper (Cu):	28	1500	mg/kg
Iron (Fe):	7000	-	mg/kg
Lead (Pb):	9.4	300	mg/kg
Manganese (Mn):	150	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.4	75	mg/kg
Nickel (Ni):	5.0	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	85	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	2.8	
2.0 to 4.0	16.3	
< 2.0	80.9	
**Greater tha	an 4mm in size (S	harps greater than 2mm)

"Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 26 Feb. 20 20654 - 1/1 - 6671 Sample i.d. Heap 66

Group: Feb20D No. 26 Sample I.d. No. 1/1 20654

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate			Rate of Your Pile				
11 mg CO2-C/	+++++++++++				. 1 . 1		
g OM/day	< Stable	> <moderately l<="" td=""><td>Jnstable> <</td><td>Unstable</td><td>> < F</td><td>ligh For Mulch</td><td></td></moderately>	Jnstable> <	Unstable	> < F	ligh For Mulch	
Is Your Compost Mature	<u>?</u>						
AmmoniaN/NitrateN ratio							
44 Ratio	+++++++++++	+++++++++	++++++++	+++++++++	++++++++	+++++++++++	+++++++
TTTGGG	VeryMature> <	Ma	ature		> <	Immature	
Ammonia N ppm							
270 mg/kg	+++++++++++						
dry wt.	VeryMature> <	Ma	ature		> < mm	nature	
Nitrate N ppm							
6.2 mg/kg	++++			>1< Moture			
dry wt.	< Immature			> < Mature			
pH value 6.36 units	+++++++++++	+++++++++	++++++++	+++++++++	+++		
0.00 dring	< Immature				< Mature	> < Immature	
Cucumber Emergence						<u> </u>	
93.3 percent	+++++++++++	++++++++++	++++++++++	++++++++++	++++++++	++++++++++++	+++
	< Immature					> < Mature	
Is Your Compost Safe Re	nardina Haalth	2					
is rour compost care ne	garung meann	<u>.</u>					
Fecal Coliform							
< 1000 MPN/g dry wt.				514	III. FIO	- I:f	
Salmonella	< Safe			> <	High Fecal C	olitorm	
Less than 3 /4g dry wt.	++++++						
Less than 3 /4g dry wt.	<safe (none="" de<="" td=""><td>etected)</td><td>> <</td><td>High Salmonell</td><td>la Count(> 3</td><td>per 4 grams)</td><td></td></safe>	etected)	> <	High Salmonell	la Count(> 3	per 4 grams)	
Metals US EPA 503	(11111)	,				· · · · · · · · · · · · · · · · · ·	
Pass dry wt.	+++++++						
	<all metals="" pass<="" td=""><td>3</td><td>> <</td><td>One or more N</td><td>/letals Fail</td><td></td><td></td></all>	3	> <	One or more N	/letals Fail		
Does Your Compost Pro	vida Nutriants a	r Organic Ma	ettor?				
	ride Hatificints C	organic inc	atter:				
Nutrients (N+P2O5+K2O)							
3.7 Percent	+++++++++++						
dry wt.		> < Average		> < High Nutrie			
AgIndex (Nutrients / Sodiu	m and Chloride S		((N+	P2O5+K2O) / (1	Na + Cl))		
4 Ratio	Na & Cl > < N		dium and Chlori	do Providor	> < Mutric	ent Provider	
Plant Available Nitrogen (P			e for first seasor		/\ Nutile	ant Flovidei	
3 lbs/ton	++++++++++		C 101 11131 3Ca501	1			
wet wt.	Low Nitrogen Pr		Average Nitroge	en Provider	> <	High Nitrogen Pro	vider
C/N Ratio	91		,,				
14 Ratio	+++++++++++						
	< Nitrogen Relea		utral > < N-Dem	and>∣< High Ni	trogen Dema	ınd	
Soluble Available Nutrients							
5.4 mmhos/cm	+++++++++++					,	
dry wt.	SloRelease> < /	Average Nutrie	nt Release Rate	: > <high ava<="" td=""><td>ailable Nutrie</td><td>nts</td><td></td></high>	ailable Nutrie	nts	
Lime Content (CaCO3) 0 Lbs/ton	+						
dry wt.	< Low > <	Average	>l< High	Lime Content ((as CaCO3)		
,			- I riigii	Line Joneth	(43 04000)		
What are the physical pro	<u>operties of your</u>	compost?					
Percent Ash							
43.4 Percent	+++++++++++	++++++++	++++++++				
dry wt.	< High Organic		> < Average	>	< High Ash	Content	
Sieve Size % > 6.3 MM (0.2							
0.0 Percent	+						
dry wt.	All Uses	> < Size May	Restrict Uses for	r Potting mix an	d Golf Course	es	

Account No.: Date Received 26 Feb. 20 20654 - 1/1 - 6671 Sample i.d. Heap 66

Group: Feb20D No. 26 Sample I.d. No. 1/1 20654

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

11 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

44

Ammonia N	ppm	
270	mature	
Nitrate N ppi	m	
6.2	immature	
pH value		
6.36	immature	

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

93.3 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.7 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 26 Feb. 20 20654 - 1/1 - 6671 Sample i.d. Heap 66

Group: Feb20D No. 26 Sample I.d. No. 1/1 20654

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates maturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

5.4 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

43.4 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:			
Plant Availab	le Nitrogen (PAN) calculations:	Estimated available nutrients for use wher	n calculating application rates
PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))			lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		·
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.4
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.46
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.01
Note: If C/N ratio > 15 additional N should be applied.		Available Phosphorus (P2O5*0.64)	6.4
RR = R	espiration rate	Available Potassium (K2O)	22.2



nt 4 TEL: 831-724-5422 FAX: 831-724-3188 www.controllabs.com

SOIL CONTROL LAB

42 HANGAR WAY WATSONVILLE CALIFORNIA 95076 USA

Account #: 20652-1/1-6671 Group: Feb20D #25 Reporting Date: March 13, 2020

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 26 Feb. 20 Sample Identification: Heap 67 Sample ID #: 20652 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.8	1.5	%
Ammonia (NH ₄ -N):	470	400	mg/kg
Nitrate (NO ₃ -N):	9.9	8.4	mg/kg
Org. Nitrogen (OrgN):	1.8	1.5	%
Phosphorus (as P_2O_5):	0.64	0.54	%
Phosphorus (P):	2800	2400	mg/kg
Potassium (as K ₂ O):	1.3	1.1	%
Potassium (K):	11000	9300	mg/kg
Calcium (Ca):	1.7	1.4	%
Magnesium (Mg):	0.36	0.31	%
Sulfate (SO ₄ -S):	530	450	mg/kg
Boron (Total B):	30	26	mg/kg
Moisture:	0	15.6	%
Sodium (Na):	0.37	0.31	%
Chloride (CI):	0.52	0.44	%
pH Value:	NA	5.14	unit
Bulk Density :	21	25	lb/cu ft
Carbonates (CaCO ₃):	< 0.1	< 0.1	lb/ton
Conductivity (EC5):	6.6	NA	mmhos/cm
Organic Matter:	60.3	50.9	%
Organic Carbon:	28.0	24.0	%
Ash:	39.7	33.5	%
C/N Ratio	16	16	ratio
AgIndex	4	4	ratio

_				
	Stability Indicat	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM	/day	13	
	mg CO ₂ -C/g TS/	day	7.8	
	Stability Ratir	ng	unstable	
	Maturity Indicat	or: Cucum	ber Bioassay	
	Compost:Vermic	ulite (v:v)	1:2	
	Emergence (%)		100	
	Seedling Vigor (9	%)	88	
	Description of	f Plants	fungus	
	Pathogens	Results	Units	Rating
	Fecal Coliform	5.2	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 26 Fe	b. 20		
	Physical Contai	minants**	% by dry wt	
	Total Plastic		< 0.1	
n	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	
	i otal		٠.٥	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4400	-	mg/kg
Arsenic (As):	3.2	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	15	-	mg/kg
Cobalt (Co)	2.6	-	mg/kg
Copper (Cu):	42	1500	mg/kg
Iron (Fe):	7700	-	mg/kg
Lead (Pb):	14	300	mg/kg
Manganese (Mn):	180	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.6	75	mg/kg
Nickel (Ni):	7.1	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	100	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.0	
4.0 to 6.3	2.3	
2.0 to 4.0	15.2	
< 2.0	82.5	
**Greater the	on 1mm in ciza (Sh	arns areater than 2mm)

*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 26 Feb. 20 20652 - 1/1 - 6671 Sample i.d. Heap 67

Group: Feb20D No. 25 Sample I.d. No. 1/1 20652

INTERPRETATION:

Page one of three

<u>Is</u>	<u>You</u>	r Co	mpo	<u>st S</u>	tabl	<u>e?</u>

Respiration Rate	Biodegradation Rate of Your Pile				
13 mg CO2-C/	/ 				
g OM/day	< Stable > < Moderately Unstable> < Unstable > < High For Mulch				
					,
Is Your Compost Mature	s Your Compost Mature?				

AmmoniaN/NitrateN ratio				
47 Ratio	++++++++++++++	++++++++++++++	++++++++++++++++++	+++++++++++++++++++++++++++++
	VeryMature> <	Mature		> < Immature
Ammonia N ppm				
470 mg/kg	++++++++++++++	++++++++++++++	++++++++++++++++++	•
dry wt.	VeryMature> <	Mature	> <	Immature
Nitrate N ppm				
9.9 mg/kg	++++++			
dry wt.	< Immature		> < Mature	
pH value				
5.14 units	++++++++++++++	++++++++++++++	++++++	
	< Immature		> < Matu	ıre > < Immature
Cucumber Emergence				
100.0 percent	+++++++++++++++	+++++++	+++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
	< Immature			> < Mature

Is Your Compost Safe Regarding Health?

Fecal Coliform < 1000 MPN/g dry wt.	++++++ < Safe	> < High Fecal Coliform
Salmonella		Thight coal comoth
Less than 3 /4g dry wt.	+++++++ <safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" th=""><th>> < One or more Metals Fail</th></all>	> < One or more Metals Fail
Does Your Compost Prov	ride Nutrients or Organic Matter?	

Nutrients (N+P2O5+K2O)	
3.8 Percent	++++++++++++++++++++++++++
dry wt.	<low> < Average > < High Nutrient Content</low>
AgIndex (Nutrients / Sodiun	and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
4 Ratio	++++++++++++++++++++++
	Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider
Plant Available Nitrogen (P.	N) Estimated release for first season
4 lbs/ton	++++++
wet wt.	Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" td=""></high>
C/N Ratio	
16 Ratio	+++++++++++++++++++++++++++++++++++++++
	< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
Soluble Available Nutrients	a Salts (EC5 w/w dw)
6.6 mmhos/cm	+++++++++++++++++++++++++++++++++++++++
dry wt.	SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" td=""></high>
Lime Content (CaCO3)	
0 Lbs/ton	+
dry wt.	< Low > < Average > < High Lime Content (as CaCO3)

What are the physical pro	<u>perties of your compost</u>	<u> </u>		
Percent Ash				
39.7 Percent	+++++++++++++++++++++++++++++++++++++++	++++++++		
dry wt.	< High Organic Matter	> < Average	> < High Ash Content	
Sieve Size % > 6.3 MM (0.25	")			
0.0 Percent	+			
dry wt.	All Uses > < Size Ma	ay Restrict Uses for Pottin	ng mix and Golf Courses	
-				

Account No.: Date Received 26 Feb. 20 20652 - 1/1 - 6671 Sample i.d. Heap 67

Group: Feb20D No. 25 Sample I.d. No. 1/1 20652

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

13 High-for mulch mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

47

Ammonia N	ppm
470	mature
Nitrate N ppr	n
9.9	immature
pH value	
5.14	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.8 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 26 Feb. 20 20652 - 1/1 - 6671 Sample i.d. Heap 67

Group: Feb20D No. 25 Sample I.d. No. 1/1 20652

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

4 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

Soluble Nutrients & Salts (EC5 w/w dw - mmhos/cm)

6.6 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

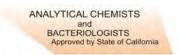
Percent Ash

39.7 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.0 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:	ole Nitrogen (PAN) calculations:	Estimated available nutrients for use when	a calculating application rates
	organic N)) + ((NH4-N) + (NO3-N))	Estimated available flutherits for use when	lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		iborton (rio riova.)
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.7
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.80
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.02
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	7.0
RR = F	Respiration rate	Available Potassium (K2O)	22.4



TEL: 831-724-5422 FAX: 831-724-3188 www.controllabs.com

SOIL CONTROL LAB



Account #: 30703-1/1-6671 Group: Mar20D #33 Reporting Date: April 13, 2020

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 27 Mar. 20
Sample Identification: H78 ASP Compost
Sample ID #: 30703 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.9	1.5	%
Ammonia (NH ₄ -N):	180	140	mg/kg
Nitrate (NO ₃ -N):	5.5	4.4	mg/kg
Org. Nitrogen (OrgN):	1.9	1.5	%
Phosphorus (as P_2O_5):	0.54	0.43	%
Phosphorus (P):	2400	1900	mg/kg
Potassium (as K ₂ O):	1.1	0.92	%
Potassium (K):	9500	7600	mg/kg
Calcium (Ca):	1.6	1.3	%
Magnesium (Mg):	0.33	0.27	%
Sulfate (SO ₄ -S):	330	270	mg/kg
Boron (Total B):	30	24	mg/kg
Moisture:	0	19.5	%
Sodium (Na):	0.32	0.26	%
Chloride (CI):	0.45	0.36	%
pH Value:	NA	6.22	unit
Bulk Density:	21	27	lb/cu ft
Carbonates (CaCO ₃):	< 0.1	< 0.1	lb/ton
Conductivity (EC5):	5.4	NA	mmhos/cm
Organic Matter:	57.0	45.9	%
Organic Carbon:	29.0	23.0	%
Ash:	43.0	34.6	%
C/N Ratio	16	16	ratio
AgIndex	5	5	ratio

	Stability Indicate	or:		
	CO2 Evolution		Respirometery	
	mg CO ₂ -C/g OM/	day	8.1	
	mg CO ₂ -C/g TS/c	lay	4.6	
	Stability Rating	9	unstable	
	Maturity Indicate	or: Cucum	ber Bioassay	
	Compost:Vermicu	ılite (v:v)	1:2	
	Emergence (%)		100	
	Seedling Vigor (%	b)	106	
	Description of	Plants	healthy	
	Pathogens	Results	Units	Rating
	Fecal Coliform	65	MPN/g	pass
	Salmonella	< 3	MPN/4g	pass
	Date Tested: 27 Mai	. 20		
	Physical Contan	ninants**	% by dry wt	
	Total Plastic		< 0.1	
n	Film Plastic		< 0.1	
	Glass		< 0.1	
	Metal		< 0.1	
	Sharps		ND	
	Total		< 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	3600	-	mg/kg
Arsenic (As):	2.6	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	9.8	-	mg/kg
Cobalt (Co)	2.2	-	mg/kg
Copper (Cu):	400	1500	mg/kg
Iron (Fe):	5800	-	mg/kg
Lead (Pb):	10	300	mg/kg
Manganese (Mn):	180	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.4	75	mg/kg
Nickel (Ni):	4.1	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	82	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.0	
6.3 to 9.5	0.2	
4.0 to 6.3	3.0	
2.0 to 4.0	13.9	
< 2.0	83.0	
**Creater the	n 4mm in cizo (S	harns greater than 2mm)

**Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 27 Mar. 20

 30703 - 1/1 - 6671
 Sample i.d.
 H78 ASP Compost

 Group:
 Mar20D No. 33
 Sample I.d. No.
 1/1
 30703

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate		Biodegradation Rate of Your Pile	!		
8.1 mg CO2-C/	++++++++	+++++++++++++++++		_	
g OM/day	< Stable	> <moderately unstable=""> <</moderately>	Unstable	> < High For Mulch	
la Vaur Campact Matura	2				

Is Your Compost Mature?

+++++++++++++++	++++++++++++++++	++++++++++++++++++	+++++++++++++++++++++++++
VeryMature> <	Mature	>	< Immature
+++++++++++++++	++++		
VeryMature> <	Mature	> <	Immature
++++			
< Immature		> < Mature	
+++++++++++++++	++++++++++++++++	+++++++++++	
< Immature		> < Mature	e > < Immature
+++++++++++++++	++++++++++++++++	++++++++++++++++++	+++++++++++++++++++++++++++++++++++++++
< Immature			> < Mature
	VeryMature> < ++++++++++++++++++++++++++++++++++++	VeryMature> < Mature +++++++++++++++++ VeryMature> < Mature ++++ < Immature +++++++++++++++++++++++++++++++++++	++++++++++++++++++++++++++++++++++++++

Is Your Compost Safe Regarding Health?

Fecal Coliform < 1000 MPN/g dry wt.	++++++	
3 ,	< Safe	> < High Fecal Coliform
Salmonella		
Less than 3 /4g dry wt.	++++++	
	<safe (none="" detected)<="" td=""><td>> < High Salmonella Count(> 3 per 4 grams)</td></safe>	> < High Salmonella Count(> 3 per 4 grams)
Metals US EPA 503		
Pass dry wt.	+++++++	
	<all metals="" pass<="" td=""><td>> < One or more Metals Fail</td></all>	> < One or more Metals Fail

Does Your Compost Provide Nutrients or Organic Matter?

Nutrients (N+P2O5+K2O)	
3.6 Percent	+++++++++++++++++++++++++++++++++++++++
dry wt.	<low> < Average > < High Nutrient Content</low>
AgIndex (Nutrients / Sodiur	and Chloride Salts) ((N+P2O5+K2O) / (Na + Cl))
5 Ratio	+++++++++++++++++++++++++++++++++++++++
	Na & Cl > < Nutrient and Sodium and Chloride Provider > < Nutrient Provider
Plant Available Nitrogen (P.	AN) Estimated release for first season
3 lbs/ton	+++++++
wet wt.	Low Nitrogen Provider> < Average Nitrogen Provider > <high nitrogen="" provider<="" th=""></high>
C/N Ratio	
16 Ratio	+++++++++++++++++++++++++++++++++++++++
	< Nitrogen Release > < N-Neutral > < N-Demand> < High Nitrogen Demand
Soluble Available Nutrients	& Salts (EC5 w/w dw)
5.4 mmhos/cm	+++++++++++++++++++++++++++++++++++++++
dry wt.	SloRelease> < Average Nutrient Release Rate > <high available="" nutrients<="" th=""></high>
Lime Content (CaCO3)	
0 Lbs/ton	+
dry wt.	< Low > < Average > < High Lime Content (as CaCO3)

What are the physical properties of your compost?

<u>wnat are tne pnysicai proj</u>	<u>perties of your compost</u>	<u>/</u>		
Percent Ash				
43.0 Percent	+++++++++++++++++++++	+++++++++		
dry wt.	< High Organic Matter	> < Average	> < High Ash Content	
Sieve Size % > 6.3 MM (0.25)	")			
0.2 Percent	+			
dry wt.	All Uses > < Size Ma	ay Restrict Uses for Pottin	g mix and Golf Courses	

Account No.: Date Received 27 Mar. 20

30703 - 1/1 - 6671 Sample i.d. H78 ASP Compost Group: Mar20D No. 33 Sample I.d. No. 1/1 30703

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

8.1 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

immature

33

Ammonia N	ppm
180	mature
Nitrate N ppr	n
5.5	immature
pH value	
6.22	immature

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0 Percent

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.6 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 27 Mar. 20

30703 - 1/1 - 6671 Sample i.d. H78 ASP Compost Group: Mar20D No. 33 Sample I.d. No. 1/1 30703

INTERPRETATION: Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

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C/N Ratio

- Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 5.4 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

O Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

43.0 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

0.2 Suitable for all uses Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:	olo Nitrogon (PAN) calculations:	Estimated available nutrients for use when	a calculating application rates
Plant Available Nitrogen (PAN) calculations: PAN = (X * (organic N)) + ((NH4-N) + (NO3-N))		Estimated available flutherits for use when	lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		iborton (rio riova.)
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	3.3
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.28
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.01
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	5.5
RR = F	Respiration rate	Available Potassium (K2O)	18.3



Date Sampled/Received: 25 Mar. 20 / 27 Mar. 20

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego CA 92123

Product Identification

Public Compost

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab; 42 Hangar Way; Watsonville, CA 95076		<i>tel:</i> 831.724.5422	fax: 831.724.3188
Compost Parameters	Reported as (units of measure)	Test Results	Test Results
Plant Nutrients:	%, weight basis	Not reported	Not reported
Moisture Content	%, wet weight basis	35.0	
Organic Matter Content	%, dry weight basis	54.5	
pН	units	6.22	
Soluble Salts (electrical conductivity EC ₅)	dS/m (mmhos/cm)	6.2	
Particle Size or Sieve Size	maxium aggregate size, inches	0.64	
Stability Indicator (respirometry)		Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day	4.7	Moderately Un-Stable
	mg CO ₂ -C/g TS/day	2.6	Wioderatery On-Stable
Maturity Indicator (bioassay)			
Percent Emergence	average % of control	100.0	
Relative Seedling Vigor	average % of control	102.7	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Dana	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Mar20D	Laboratory Number: 30704-1/1
Analyst: Assaf Sadeh	any Sole	www.controllabs.com



Date Sampled/Received: 25 Mar. 20 / 27 Mar. 20

City of San Diego Environmental Services

Burton Ewert

9601 Ridgehaven Ct., Suite 310 (MS1103A)

San Diego

CA 92123

Product Identification

Public Compost

COMPOST TECHNICAL DATA SHEET

LABORATORY: Soil Control Lab; 42 Hangar Way; Watsonville, CA 95076 tel: 831.724.5422 fax: 831.			fax: 831.724.3188
Compost Parameters Reported as (units of measure)		Test Results	Test Results
Plant Nutrients:	%, weight basis	%, wet weight basis	%, dry weight basis
Nitrogen	Total N	1.1	1.6
Phosphorus	P_2O_5	0.41	0.61
Potassium	K ₂ O	0.84	1.3
Calcium	Ca	1.2	1.8
Magnesium	Mg	0.23	0.36
Moisture Content	%, wet weight basis	35.0	
Organic Matter Content	%, dry weight basis	54.5	
рН	units	6.22	
Soluble Salts (electrical conductivity EC 5)	dS/m (mmhos/cm)	6.2	
Particle Size or Sieve Size	Particle Size or Sieve Size % under 9.5 mm, dw basis 99.8		
Stability Indicator (respirometry	·)	•	Stability Rating:
CO ₂ Evolution	mg CO ₂ -C/g OM/day mg CO ₂ -C/g TS/day	4.7 Moderately Un-S	
Maturity Indicator (bioassay)	g try try		
Percent Emergence	average % of control	100.0	
Relative Seedling Vigor	average % of control	102.7	
Select Pathogens	PASS/FAIL: per US EPA Class A standard, 40 CFR § 503.32(a)	Pass	Fecal coliform
		Pass	Salmonella
Trace Metals	PASS/FAIL: per US EPA Class A	Dogg	As,Cd,Cr,Cu,Pb,Hg
	standard, 40 CFR § 503.13, Tables 1 and 3.	Pass	Mo,Ni,Se,Zn

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

Laboratory Group:	Mar20D	Laboratory Number:	30704-1/1
Analyst: Assaf Sadeh	any Sole	www.controllabs.com	



City of San Diego Environmental Services

Burton Ewert 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego CA 92123

Product Identificatio	n:
-----------------------	----

Public Compost

Date Sampled/Received: 25 Mar. 20 / 27 Mar. 20

Coltrars

COMPOST TECHNICAL DATA SHEET for Caltrans

LABORATORY: Soil Control Lab, 42 Hangar Way, Watsonville, CA 95076 tel (831) 724-5422 fax (831) 724-3188 www.controllabs.com

Compost Parameters	Test Results	Reported as (units of measure)	TMECC Test
			Method
рН	6.22	Unitless	04.11-A 1:5 Slurry pH
Soluble Salts (electrical conductivity)	6.2	dS/m (mmhos/cm)	04.10-A 1:5 Slurry Method Mass Basis
Moisture content	35.0	%, wet weight basis	03.09-A - Total Solids and Moisture
Organic Matter Content	54.5	%, dry weight basis	05.07-A Loss-on-Ignition Organic Matter Method (LOI)
Maturity Indicator (bioassay)			
Percent Emergence	100.0	average % of control	05.05-A Germination and vigor
Relative Seedling Vigor	102.7	average % of control	
Stability Indicator	4.7	mg CO2-C/g OM/day	05.08-B Carbon Dioxide Evoultion Rate
Particle Size	99.8	%, dry weight passing through 9.5 mm	02.02-B Sample Sieving for Aggregate Size Classification
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.01-B Fecal coliforms
Pathogens	Pass	PASS/FAIL: Per US EPA Class A standard, 40 CFR 503.32(a)	07.02 Samonella
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Total content
Physical Contaminants	None Detected	%, dry weight basis	02.02-C - Man-Made Inerts Sharps content
Heavy Metals Content	Pass	PASS/FAIL: Per US EPA Class A 40 CFR 503.13, tables 1 and 3.	04.06-Heavy Metals standard, and Hazardous Elements

Participants in the US Composting Council's Seal of Testing Assurance Program have shown the commitment to test their compost products on a prescribed basis and provide this data, along with compost end use instructions, as a means to better serve the needs of their compost customers.

For additional information pertaining to compost use, the specific compost parameters tested for within the Seal of Testing assurance Program, or the program in general, log on to the US Composting Council's TMECC web-site at http://www.tmecc.org.

This compost product has been sampled and tested as required by the Seal of Testing assurance Program on the United States Composting Council (USCC), using certain methods from the "Test Methods for the Examination of Compost and Composting" manual. Test results are available upon request by contacting the compost producer (address at top of page). The USCC makes no warranties regarding this product or its content, quality. or suitability for any particular use.

Laboratory Group:	Mar20D	Laboratory Number:	30704-1/1	
Analyst: Assaf Sadeh	C. Kalel			
	asy	www.controllabs.com		



Approved by State of California

FAX: 831-724-3188

WWW.controllabs.com

SOIL CONTROL LAB



Account #: 30704-1/1-6671 Group: Mar20D #34 Reporting Date: April 13, 2020

TEL: 831-724-5422

City of San Diego Environmental Services 9601 Ridgehaven Ct., Suite 310 (MS1103A) San Diego, CA 92123 Attn: Burton Ewert

Date Received: 27 Mar. 20
Sample Identification: Public Compost 30704 - 1/1

Nutrients	Dry wt.	As Rcvd.	units
Total Nitrogen:	1.6	1.1	%
Ammonia (NH ₄ -N):	390	250	mg/kg
Nitrate (NO ₃ -N):	2.1	1.4	mg/kg
Org. Nitrogen (OrgN):	1.6	1.0	%
Phosphorus (as P_2O_5):	0.61	0.40	%
Phosphorus (P):	2700	1800	mg/kg
Potassium (as K ₂ O):	1.3	0.85	%
Potassium (K):	11000	7000	mg/kg
Calcium (Ca):	1.8	1.2	%
Magnesium (Mg):	0.36	0.23	%
Sulfate (SO ₄ -S):	490	320	mg/kg
Boron (Total B):	30	19	mg/kg
Moisture:	0	35.0	%
Sodium (Na):	0.30	0.20	%
Chloride (CI):	0.55	0.36	%
pH Value:	NA	6.22	unit
Bulk Density :	27	41	lb/cu ft
Carbonates (CaCO ₃):	2.1	1.4	lb/ton
Conductivity (EC5):	6.2	NA	mmhos/cm
Organic Matter:	54.5	35.4	%
Organic Carbon:	26.0	17.0	%
Ash:	45.5	29.6	%
C/N Ratio	16	16	ratio
AgIndex	4	4	ratio
Metals	Dry wt	FPA Limit	units

1	Stability Indicator:		
l	CO2 Evolution	Respirometery	
mg CO ₂ -C/g OM/day		4.7	
l	mg CO ₂ -C/g TS/day	2.6	
	Stability Rating	moderately unstable	
	Maturity Indicator: Cuc	umber Bioassav	
	Compost:Vermiculite (v:	-	
	Emergence (%)	100	
l	Seedling Vigor (%)	103	
	Description of Plants		
	Pathogens Resul	ts Units	Rating
	Fecal Coliform < 7.5		pass
	Salmonella < 3	Ū	pass
	Date Tested: 27 Mar. 20		paoo
	Physical Contaminants	s** % by dry wt	
	Total Plastic	< 0.1	
	Film Plastic	< 0.1	
	Glass	< 0.1	
	Metal	< 0.1	
I	Sharps	ND	
l	Total	< 0.5	

Metals	Dry wt.	EPA Limit	units
Aluminum (AI):	4200	-	mg/kg
Arsenic (As):	3.1	41	mg/kg
Cadmium (Cd):	< 1.0	39	mg/kg
Chromium (Cr):	16	-	mg/kg
Cobalt (Co)	2.7	-	mg/kg
Copper (Cu):	760	1500	mg/kg
Iron (Fe):	9000	-	mg/kg
Lead (Pb):	14	300	mg/kg
Manganese (Mn):	190	-	mg/kg
Mercury (Hg):	< 1.0	17	mg/kg
Molybdenum (Mo):	1.9	75	mg/kg
Nickel (Ni):	6.3	420	mg/kg
Selenium (Se):	< 1.0	100	mg/kg
Zinc (Zn):	110	2800	mg/kg

Size Distrib	ution	
MM	% by weight	
> 50	0.0	
25 to 50	0.0	
16 to 25	0.0	
9.5 to 16	0.2	
6.3 to 9.5	2.6	
4.0 to 6.3	4.5	
2.0 to 4.0	11.3	
< 2.0	81.3	
6.3 to 9.5 4.0 to 6.3 2.0 to 4.0 < 2.0	2.6 4.5 11.3	r than 2mm)

*Greater than 4mm in size (Sharps greater than 2mm)

Analyst: Assaf Sadeh

*Sample was received and handled in accordance with TMECC procedures.

Account No.: Date Received 27 Mar. 20 Sample i.d. Public Compost

Group: Mar20D No. 34 Sample I.d. No. 1/1 30704

INTERPRETATION: Page one of three

Is Your Compost Stable?

Respiration Rate	_	Biodegradation Ra	te of Your Pile			
4.7 mg CO2-C/	++++++++		10011001110			
g OM/day	< Stable	> <moderately td="" ur<=""><td>nstable> <</td><td>Unstable</td><td>> < High For Mulch</td><td></td></moderately>	nstable> <	Unstable	> < High For Mulch	
le Vour Compost Maturo	2					
Is Your Compost Mature	<u>/</u>					
AmmoniaN/NitrateN ratio 190 Ratio	********				++++++++++++++++	
190 Rallo	VeryMature>			***************************************	> < Immature	
Ammonia N ppm		'			<u>'</u>	
390 mg/kg		++++++++++++++		++++++	> < mmature	
dry wt. Nitrate N ppm	VeryMature>	< Mat	ure		> < Immature	
2.1 mg/kg	+					
dry wt.	< Immature)	>	·∣< Mature		
pH value 6.22 units	+++++++	+++++++++++	+++++++++	+++++++++		
VILL dillo	< Immature				Mature > < Immature	
Cucumber Emergence						
100.0 percent	<pre>+++++++++ < Immature</pre>		++++++++++	+++++++++	++++++++++++++++++++++++++++++++++++++	-++++++
					Mataro	
Is Your Compost Safe Re	egarding Hea	itn?				
Fecal Coliform						
< 1000 MPN/g dry wt	++++++ < Safe			> < Hi	gh Fecal Coliform	
Salmonella	· Gale			2 3111	giri coai comorni	
Less than 3 /4g dry wt.	++++++					
Metals US EPA 503	<safe (none<="" td=""><td>e detected)</td><td>> < F</td><td>ligh Salmonella</td><td>Count(> 3 per 4 grams)</td><td></td></safe>	e detected)	> < F	ligh Salmonella	Count(> 3 per 4 grams)	
Pass dry wt.	+++++++					
,	<all metals="" p<="" td=""><td>ass</td><td>> < (</td><td>One or more Me</td><td>tals Fail</td><td></td></all>	ass	> < (One or more Me	tals Fail	
Does Your Compost Pro	vide Nutrient	s or Organic Mat	ter?			
Nutrients (N+P2O5+K2O)		<u> </u>				
3.5 Percent	++++++++	++++++++++++	++			
dry wt.	<low< td=""><td>> < Average</td><td></td><td>< High Nutrient</td><td></td><td></td></low<>	> < Average		< High Nutrient		
AgIndex (Nutrients / Sodiu			((N+P	205+K2O) / (Na	+ CI))	
4 Ratio		++++++++++ Nutrient and Sodi	um and Chloride	Provider	> < Nutrient Provider	
Plant Available Nitrogen (F		Estimated release		o i iovidei	- Natherit Toviaci	
3 lbs/ton	++++++++	•				
wet wt.	Low Nitrogen	Provider> < A	verage Nitrogen	Provider	> <high nitrogen="" pr<="" td=""><td>ovider</td></high>	ovider
C/N Ratio 16 Ratio	+++++++	++++++++++++	+++++			
10 radio	< Nitrogen Re	elease > < N-Neut	ral > < N-Demar	nd> < High Nitro	ogen Demand	
Soluble Available Nutrient						
6.2 mmhos/cm		++++++++++++++		Stattiah Avoit	abla Nutrianta	
dry wt. Lime Content (CaCO3)	Siurelease>	< Average Nutrient	Release Kale	> <high avail<="" td=""><td>able Nullients</td><td></td></high>	able Nullients	
2.1 Lbs/ton	+++					
dry wt.	< Low > <	Average	> < High I	₋ime Content (as	s CaCO3)	
What are the physical pr	operties of ye	our compost?				
Percent Ash	_					
45.5 Percent		++++++++++++	++++++++			
dry wt.		anic Matter	> < Average	> <	High Ash Content	
Sieve Size % > 6.3 MM (0.2	5 <u>")</u>					

2.9 Percent

dry wt.

All Uses

>|< Size May Restrict Uses for Potting mix and Golf Courses

Account No.: Date Received 27 Mar. 20 Sample i.d. Public Compost

Group: Mar20D No. 34 Sample I.d. No. 1/1 30704

INTERPRETATION: Page two of three

Is Your Compost Stable? Respiration Rate

4.7 Moderate-selected use mg CO2-C/g OM/day

The respiration rate is a measurement of the biodegradation rate of the organic matter in the sample (as received). The respiration rate is determined by measuring the rate at which CO2 is released under optimized moisture and temperature conditions.

Is Your Compost Mature? AmmoniaN:NitrateN ratio

190

Ammonia N	ppm	
390	mature	
Nitrate N ppi	m	
2.1	immature	
pH value		
6.22	immature	

Composting to stabilize carbon can occur at such a rapid rate that sometimes phytotoxins remain in the compost and must be neutralized before using in high concentrations or in high-end uses. This step is called curing. Typically ammonia is in excess with the break-down of organic materials resulting in an increase in pH. This combination results in a loss of volatile ammonia (it smells). Once this toxic ammonia has been reduced and the pH drops, the microbes convert the ammonia to nitrates. A low ammonia + high nitrate score is indicative of a mature compost, however there are many exceptions. For example, a compost with a low pH (<7) will retain ammonia, while a compost with high lime content can lose ammonia before the organic fraction becomes stable. Composts must first be stable before curing indicators apply.

Cucumber Bioassay

100.0 Percent C

immature

Cucumbers are chosen for this test because they are salt tolerant and very sensitive to ammonia and organic acid toxicity. Therefore, we can germinate seeds in high concentrations of compost to

measure phytotoxic effects without soluble salts being the limiting factor. Values above 80% for both percent emergence and vigor are indicative of a well-cured compost. Exceptions include very high salts that affect the cucumbers, excessive concentrations of nitrates and other nutrients that will be in range when formulated to make a growing media.

Is Your Compost Safe Regarding Health? Fecal Coliform

< 1000 / g dry wt. Fecal coliforms can survive in both aerobic and anaerobic conditions and is common in all initial compost piles. Most human pathogens occur from fecal matter and all fecal matter is loaded in fecal coliforms. Therefore fecal coliforms are used as an indicator to determine if the chosen method for pathogen reduction (heat for compost) has met the requirements of sufficient temperature, time and mixing. If the fecal coliforms are reduced to below 1000 per gram dry wt. it is assumed all others pathogens are eliminated. Potential problems are that fecal coliform can regrow during the curing phase or during shipping. This is because the conditions are now more favorable for growth than during the composting process.</p>

Salmonella Bacteria

Less than 3 3 / 4g dry wt. Salmonella is not only another indicator organism but also a toxic microbe. It has been used in the case of biosolids industry to determine adequate pathogen reduction.

Metals

Pass The ten heavy metals listed in the EPA 503 regulations are chosen to determine if compost can be applied to ag land and handled without toxic effects. Most high concentrations of heavy metals are derived from woodwaste feedstock such as chrome-arsenic treated or lead painted demolition wood. Biosolids are rarely a problem.

Does Your Compost Provide Nutrients or Organic Matter? Nutrients (N+P2O5+K2O)

3.5 Average nutrient content

This value is the sum of the primary nutrients Nitrogen, Phosphorus and Potassium. Reported units are consistent with those found on fertilizer formulations. A sum greater than 5 is indicative of a compost with high nutrient content, and best used to supply nutrients to a receiving soil. A sum below 2 indicates low nutrient content, and is best-used to improve soil structure via the addition of organic matter. Most compost falls between 2 and 5.

Account No.: Date Received 27 Mar. 20 Sample i.d. Public Compost

Group: Mar20D No. 34 Sample I.d. No. 1/1 30704

INTERPRETATION:

Page three of three

AgIndex (Nutrients/Na+CI)

Average nutrient ratio Composts with low AgIndex values have high concentrations of sodium and/or chloride compared to nutrients. Repeated use of a compost with a low AgIndex (< 2) may result in sodium and/or chloride acting as the limiting factor compared to nutrients, governing application rates. These composts may be used on well-draining soils and/or with salt-tolerant plants. Additional nutrients form another source may be needed if the application rate is limited by sodium or chloride. If the AgIndex is above 10, nutrients optimal for plant growth will be available without concern of sodium and/or chloride toxicity. Composts with an AgIndex of above 10 are good for increasing nutrient levels for all soils. Most composts score between 2 and 10. Concentrations of nutrients, sodium, and chloride in the receiving soil should be considered when determining compost application rates. The AgIndex is a product of feedstock quality. Feedstock from dairy manure, marine waste, industrial wastes, and halophytic plants are likely to produce a finished compost with a low AgIndex.

Plant Available Nitrogen (lbs/ton)

3 Low N Provider Plant Available Nitrogen (PAN) is calculated by estimating the release rate of Nitrogen from the organic fraction of the compost. This estimate is based on the respiration rate, ammonia, and nitrate values. Despite the PAN value of the compost, additional sources of Nitrogen may be needed during the growing season to offset the Nitrogen demand of the microbes present in the compost. With ample nutrients these microbes can further breakdown organic matter in the compost and release bound Nitrogen. Nitrogen demand based on a high C/N ratio is not considered in the PAN calculation because additional Nitrogen should always be supplemented to the receiving soil when composts with a high C/N ratio are applied.

C/N Ratio

- Indicates immaturity As a guiding principal, a C/N ratio below 14 indicates maturity and above 14 indicates immaturity, however, there are many exceptions. Large woodchips (>6.3mm), bark, and redwood are slow to breakdown and therefore can result in a relatively stable product while the C/N ratio value is high. Additionally, some composts with chicken manure and/or green grass feedstocks can start with a C/N ratio below 15 and are very unstable. A C/N ratio below 10 supplies Nitrogen, while a ratio above 20 can deplete Nitrogen from the soil. The rate at which Nitrogen will be released or used by the microbes is indicated by the respiration rate. If the respiration rate is too high the transfer of Nitrogen will not be controlable.

 Soluble Nutrients & Salts (EC5 w/w dw mmhos/cm)
- 6.2 Average salts This value refers to all soluble ions including nutrients, sodium, chloride and some soluble organic compounds. The concentration of salts will change due to the release of salts from the organic matter as it degrades, volatilization of ammonia, decomposition of soluble organics, and conversion of molecular structure. High salts + high AgIndex is indicative of a compost high in readily available nutrients. The application rate of these composts should be limited by the optimum nutrient value based on soil analysis of the receiving soil. High Salts + low AgIndex is indicative of a compost low in nutrients with high concentrations of sodium and/or chloride. Limit the application rate according to the toxicity level of thesodium and/or chloride. Low salts indicates that the compost can be applied without risking salt toxicity, is likely a good source of organic matter, and that nutrients will release slowly over time.

Lime Content (lbs. per ton)

2.1 Low lime content Compost high in lime or carbonates are often those produced from chicken manure (layers) ash materials, and lime products. These are excellent products to use on a receiving soil where lime has been recommended by soil analysis to raise the pH. Composts with a high lime content should be closely considered for pH requirements when formulating potting mixes.

Physical Properties

Percent Ash

45.5 Average ash content Ash is the non-organic fraction of a compost. Most composts contain approximately 50% ash (dry weight basis). Compost can be high in ash content for many reasons including: excess minerilzation(old compost), contamination with soil base material during turning, poor quality feedstock, and soil or mineral products added. Finding the source and reducing high ash content is often the fastest means to increasing nutrient quality of a compost.

Particle Size % > 6.3 MM (0.25")

2.9 May restrict use Large particles may restrict use for potting soils, golf course topdressings, seed-starter mixes, and where a fine size distribution is required. Composts with large particles can still be used as excellent additions to field soils, shrub mixes and mulches.

Appendix:	ole Nitrogen (PAN) calculations:	Estimated available nutrients for use when	n calculating application rates
	organic N)) + ((NH4-N) + (NO3-N))	Estimated available flatfleffes for use when	lbs/ton (As Rcvd.)
X value =	If RR < 2 then X = 0.1		, ,
	If RR =2.1 to 5 then X = 0.2	Plant Available Nitrogen (PAN)	2.7
	If RR =5.1 to 10 then X = 0.3	Ammonia (NH4-N)	0.50
	If RR > 10 then $X = 0.4$	Nitrate (NO3-N)	0.00
Note: If C/N	ratio > 15 additional N should be applied.	Available Phosphorus (P2O5*0.64)	5.2
RR = F	Respiration rate	Available Potassium (K2O)	16.9

Appendix F Existing Equipment Leased or Owned by the Greenery

MIRAMAR ORGANICS PROCESSING FACILITY

APPENDIX F: EXISTING EQUIPMENT LEASED OR OWNED BY THE CURRENT GREENERY

Equipment	Number	Model	Make	Purpose	Owned/Leased	Notes
Horizontal Grinder	1	DZH-7000TKT-5	Diamond Z	Material size reduction	0	CAT C32 Engine
Tub Grinder	1	DZH-8000TKT-8	Diamond Z	Material size reduction	0	CAT C27 Engine
Windrow Turner	1	Wildcat CT820	Vermeer	Windrow aeration/mix material	0	CAT C15 Engine
3 Fraction Trommel Screen	1	Multistar XL	Komptech	Product sizing/finishing	0	
Tub Trommel Screen	1	Magnum	Komptech	Product sizing/finishing	0	
Air Knife	1	Hurrikan	Komptech	Contamination removal	0	
Wheeled Loader	2	972	Caterpillar	multipurpose	L	rock bucket
Wheeled Loader	2	972	Caterpillar	multipurpose	L	Tink bucket
Wheeled Loader	1	930	Caterpillar	Customer Service	0	
Rock Truck	1	740B	Caterpillar	Move material	L	
Water truck	2			Dust suppression	0	4000 Gallon
Excavator	1	320EL	Caterpillar	Feed Grinder/multipurpose	L	
Dye Machine	1	Megamite		Dye woodchips	0	
Generator	1	John Deere		Power Megamite/Emergency	0	
Skid Steer	1		Caterpillar	clean ASP/Multipurpose	О	
Stacker Belt	1(3)				0	
30 yd Feeder stacker	1			Feed Trommel Screen	0	
Fee Booth	3			Inbound traffic only	О	
Fee Booth	1			Inbound/outbound traffic	0	
						1-10' x 35' 1-10' x 40'
Truck Scales	4			Inbound traffic only	0	2-10' x 70'
Truck Scales	1			Outbound traffic only	0	1-10' x 70'
Aerated Static Pile (ASP) Syst	em - 24 Bu	nker System, 40,000	tons per year		О	See below

Heap dimensions - 100' L x 26' W x 12' H

24 - Aeration blowers

48 - $100\mbox{'}$ lengths of $6\mbox{''}$ HDPE perforated aeration pipe

24 - Specialty Fabric Covers

24 - Oxygen and Temperature sensors

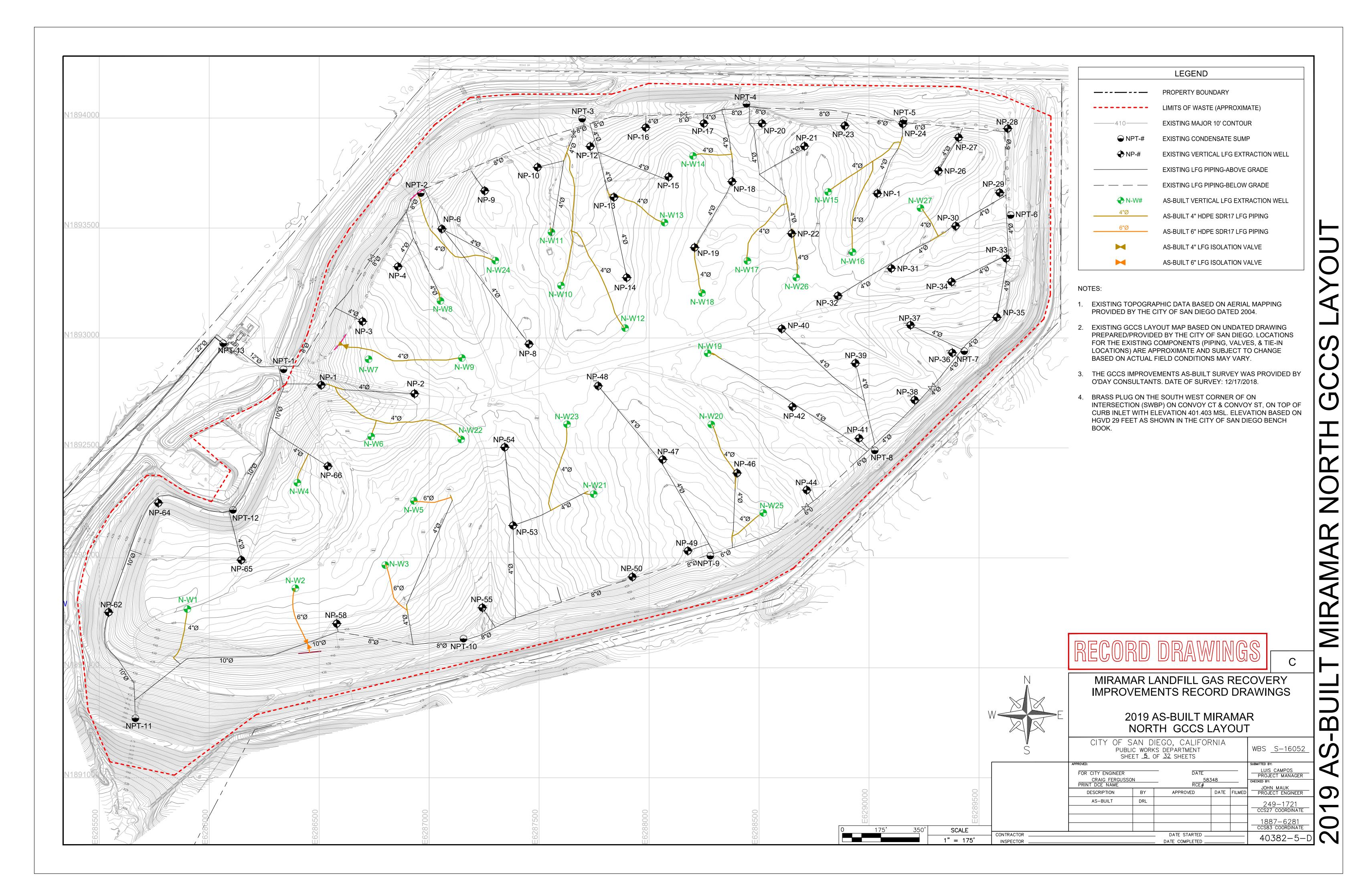
Control Room - Controllers/Data Logger and software

Mobile Winding Machine and Remote

Appendix G Reserved

Appendix H Existing Site Information and Features

Appendix H-1 Existing Landfill Gas Well and Header Pipe Locations



Appendix H-2 Existing Topography

LIMITED AERIAL TOPOGRAPHIC SURVEY



GEOSYNTECH CONSULTANTS, INC.

LOCATION:

NORTHERN MIRAMAR LANDFILL SAN DIEGO, CA

NOTES

1) NO BOUNDARY INFORMATION HAS BEEN DEPICTED HEREON. AN EVIDENCE BASED BOUNDARY SURVEY SHOULD BE PERFORMED PRIOR TO ANY PLANNING OR CONSTRUCTION IN THE VICINITY OF BOUNDARY LINES, BUILDING SETBACKS, OR ANY AREAS THAT MAY HAVE EASEMENTS OR OTHER RIGHTS THAT MAY EXIST.

2) NO EASEMENTS OR OTHER ENCUMBRANCES HAVE BEEN DEPICTED HEREON. A THOROUGH REVIEW OF UTILITY PLANS, AS—BUILTS, A PRELIMINARY TITLE REPORT SHOULD BE PERFORMED PRIOR TO ANY PLANNING OR CONSTRUCTION TO DETERMINE WHETHER ANY EASEMENTS OR OTHER ENCUMBRANCES EXIST.

3) THIS LIMITED AERIAL TOPOGRAPHIC SURVEY IS LIMITED TO THE ITEMS DEPICTED HEREON. NO UNDERGROUND UTILITIES HAVE BEEN LOCATED OR DEPICTED OTHER THAN THOSE SHOWN.

4) ONLY IMPROVEMENTS OBSERVABLE AND ACCESSIBLE AT THE TIME OF SURVEY HAVE BEEN DEPICTED HEREON.

5) AERIAL DATA PROVIDED BY AEROTECH MAPPING INC. FLOWN ON DECEMBER 20, 2019.

EASEMENTS

NO EASEMENTS HAVE BEEN DEPICTED HEREON (SEE NOTE NO. 2)

BASIS OF COORDINATES:

THE BASIS OF COORDINATES DEPICTED HEREON IS THE CALCULATED BEARING BETWEEN POINTS NO. 728 AND 726 PER R.O.S. NO. 14492 CALIFORNIA COORDINATE SYSTEM OF 1983 (CCS83) IN ZONE 6 IN THE 1991.35 EPOCH. THIS PROJECT IS IN GRID U.S. SURVEY FEET.

I.E. N89°02'02"W

BENCHMARI

VERTICAL BENCHMARK FOR THIS PROJECT IS THE CITY OF SAN DIEGO BRASS PLUG LOCATED AT THE TOP OF INLET AT THE SOUTHWEST CORNER OF THE INTERSECTION OF CONVOY STREET AND CONVOY COURT PER PAGE 277 OF THE CITY OF SAN DIEGO VERTICAL CONTROL BENCHBOOK DATED 2011.

ELEVATION = 401.403'
DATUM = NGVD29 (M.S.L.) (U.S. SURVEY FOOT)





PEDESTRIAN SIGNAL

♦♦♦♦♦ DIRECTIONAL ARROWS

NEID ONLY YED TRAFFIC PAINT ---- ROCKS

STREET LIGHT

19201 120th Ave NE, Ste 201
Bothell, WA 98011
425-951-4800 Fax 425-951-4808



SHEET INFO		REV	REVISIONS		
		Ñ.	ВУ	DATE	NO. BY DATE REMARKS
DRAWN	ЕТР				
CHECKED MDM	MDM				
APPROVED MDM	MDM				
LAST EDIT 1/24/20	1/24/20				
PLOT DATE 1/27/20	1/27/20				

ERIAL TOPOGRAPHIC SURVEY

SHEET NUMBER

— 3138 INDEX CONTOUR / TEXT

INTER CONTOUR

INTER DEPRESSION

INDEX DEPRESSION / TEXT

VEGETATION LINE

GOLF SANDTRAP

FIELD / GRASS

FIRE HYDRANT

★ LIGHT POLE

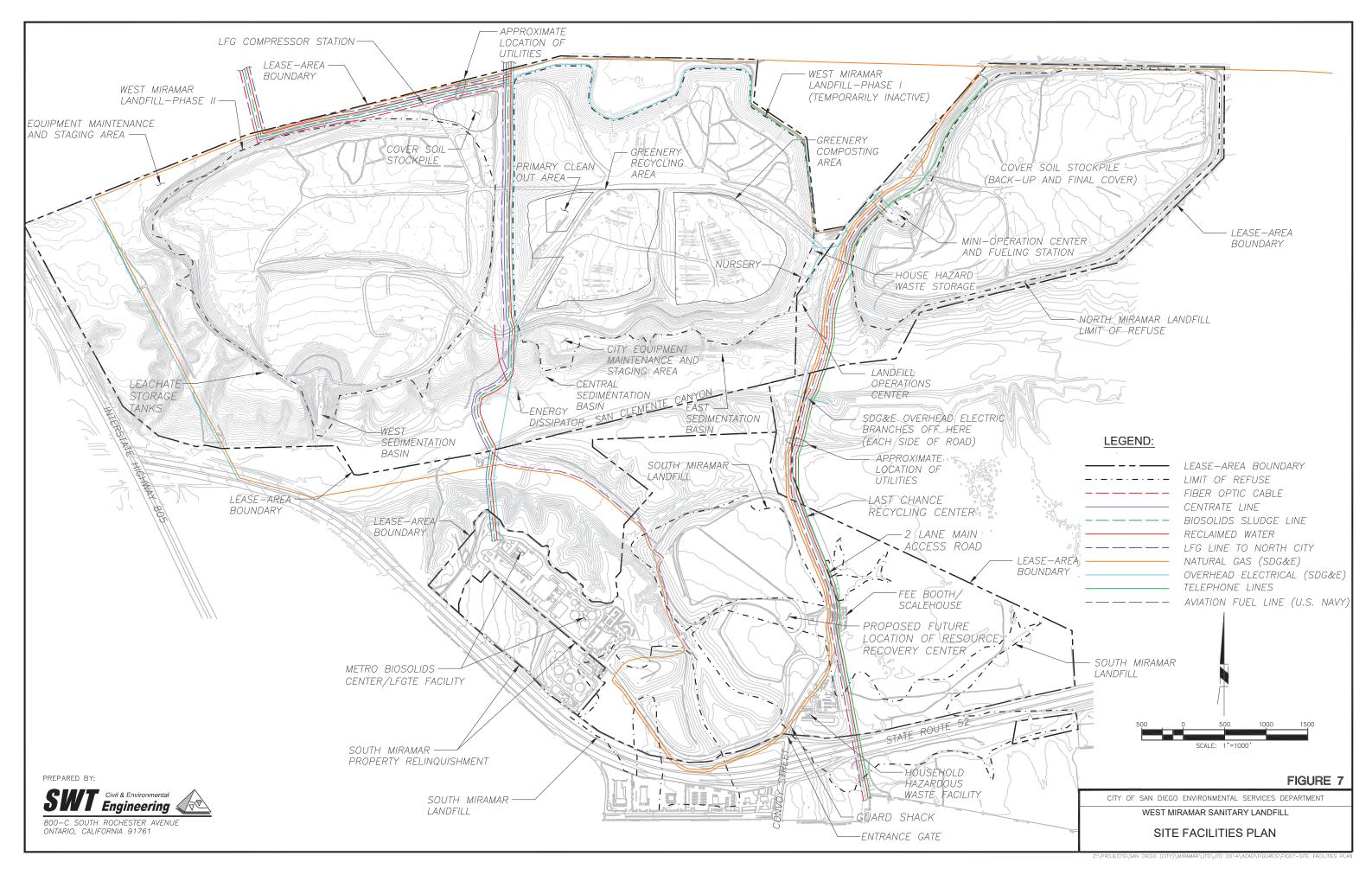
Legend

+ AERIAL PANELS

GRID TICK

x^{2980.5} SPOT ELEVATION AGATE

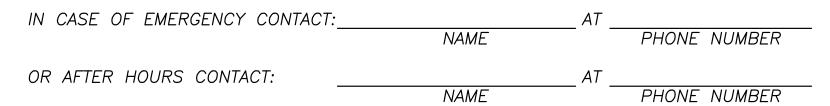
Appendix H-3 Existing Utilities



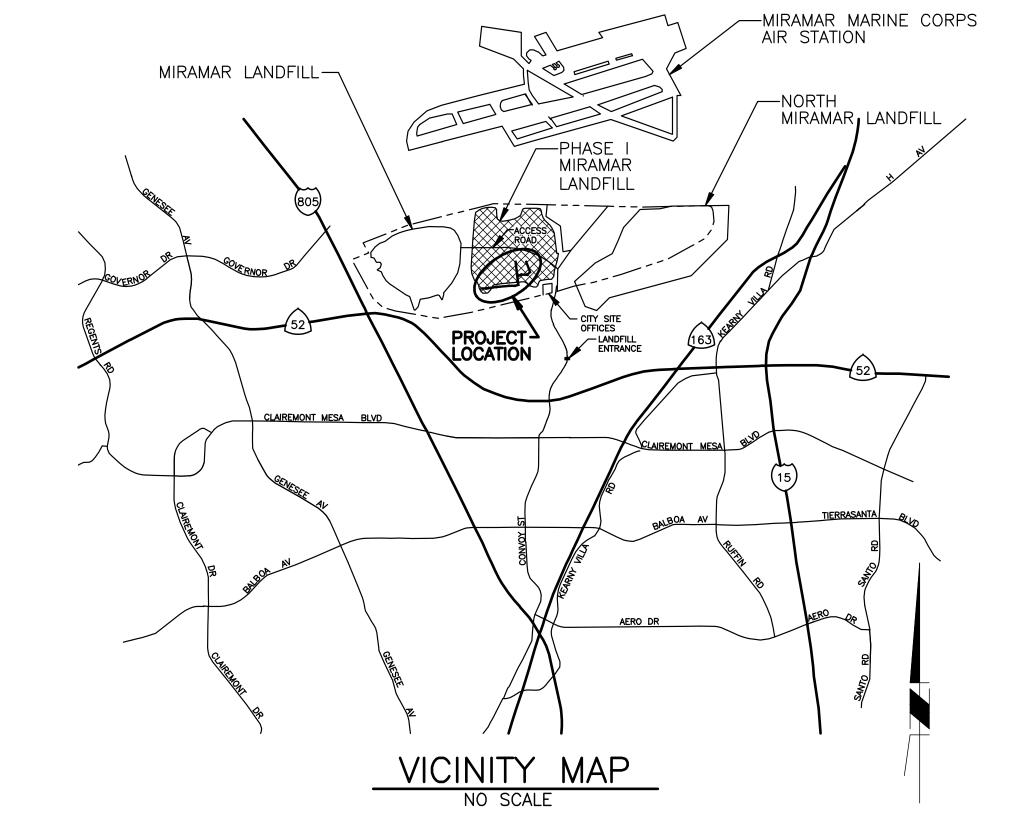
WEST MIRAMAR SANITARY LANDFILL GREENERY RECYCLED WATER LINE

RECYCLED WATER STANDARD PLAN NOTES

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE CITY OF SAN DIEGO RULES AND REGULATIONS FOR RECYCLED WATER USE AND DISTRIBUTION WITHIN THE CITY OF SAN DIEGO AND THE COUNTY OF SAN DIEGO DEPARTMENT OF ENVIRONMENTAL HEALTH REQUIREMENTS.
- 2. DRINKING WATER FOUNTAINS AND DESIGNATED OUTDOOR EATING AREAS SHALL BE PROTECTED AGAINST CONTACT WITH RECYCLED WATER SPRAY, MIST, OR RUNOFF.
- BEST MANAGEMENT PRACTICES SHALL BE USED TO ELIMINATE OR CONTROL TO THE BEST EXTENT POSSIBLE PONDING, RUN-OFF, OVER-SPRAY AND MISTING.
- 4. HOSE BIBS ARE STRICTLY PROHIBITED.
- 5. CROSS—CONNECTIONS BETWEEN RECYCLED WATER LINES AND POTABLE WATER LINES ARE STRICTLY
- 7. ALL MAINLINE PIPES SHALL HAVE WARNING TAPE PER NAME OF WATER DISTRICT'S RULES AND REGULATIONS.
- WINDBLOWN SPRAY OR BY DIRECT APPLICATION THROUGH IRRIGATION OR OTHER USE. LACK OF PROTECTION, WHETHER BY DESIGN, CONSTRUCTION PRACTICE OR SYSTEM OPERATION, IS STRICTLY PROHIBITED.
- 10. IRRIGATION HEADS SHALL BE RELOCATED OR ADJUSTED TO MINIMIZE OR ELIMINATE OVER—SPRAYING ON SIDEWALKS, STREETS AND NON-DESIGNATED USE AREAS.
- 11. RECYCLED WATER QUICK COUPLING VALVES SHALL BE OF A TYPE DESIGNED FOR THE USE ON RECYCLED
- WATER DISTRIBUTION SYSTEMS PER NAME OF WATER DISTRICT'S RULES AND REGULATIONS. 12. ON RECYCLED WATER SYSTEMS, ALL APPURTENANCES (SPRINKLER HEADS, VALVE BOXES, ETC.) SHALL BE COLOR-CODED PURPLE PER AWWA GUIDELINES AND SECTION 116815 OF THE CALIFORNIA HEALTH AND
- SAFETY CODE. 13. ALL IRRIGATION PIPES SHALL BE STENCILED WITH THE WARNING, "NON—POTABLE OR RECYCLED WATER," COLOR—CODED (PURPLE) AND LAID WITH WARNING TAPE AND STENCILING ORIENTED TOWARD THE TOP OF THE TRENCH PER THE NAME OF WATER DISTRICT'S RULES AND REGULATIONS
- 14. ON NEW ON-SITE SYSTEMS (POST-METER), POTABLE WATER, CONSTANT PRESSURE RECYCLED WATER AND SEWER LINES SHOULD BE PLACED A MINIMUM OF FOUR FEET APART OR AS DIRECTED BY THE PROJECT ENGINEER AND/OR REGULATORY AGENCY. MEASUREMENTS SHALL BE BETWEEN FACING SURFACES. NOT PIPE
- 15. CONSTANT PRESSURE RECYCLED WATER LINES SHALL CROSS AT LEAST TWELVE INCHES BELOW POTABLE
- WATER LINES AND MAINTAIN AT LEAST TWELVE INCHES CROSSING SEPARATION BETWEEN OTHER UTILITIES. 16. IF A CONSTANT PRESSURE RECYCLED WATER LINE MUST BE INSTALLED ABOVE A POTABLE WATER LINE OR LESS THAN TWELVE INCHES BELOW A POTABLE WATER LINE, THEN THE RECYCLED WATER LINE SHALL BE INSTALLED WITHIN AN APPROVED PROTECTIVE SLEEVE AS PER THE NAME OF THE WATER DISTRICT'S RULES
- 17. DEVELOPER/CONTRACTOR SHALL CONDUCT A CROSS-CONNECTION TEST AND COVERAGE TEST AS DIRECTED BY THE NAME OF WATER DISTRICT AND THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH PRIOR TO ANY USE OF RECYCLED WATER.
- 18. THE REQUIRED CROSS-CONNECTION INSPECTION SHALL BE DONE BY EITHER THE NAME OF WATER DISTRICT AND/OR THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH. COPIES OF INSPECTION REPORTS WILL BE FORWARDED TO THE NON-INSPECTING PARTY.
- 19. THE DESIGN AND LOCATIONS PROPOSED FOR RECYCLED WATER "DO NOT DRINK" SIGNS SHALL BE CALLED OUT ON THE PLANS.
- 20. WHEN RECYCLED WATER BECOMES AVAILABLE, AN ON-SITE USER SUPERVISOR SHALL BE DESIGNATED IN WRITING. THIS INDIVIDUAL SHALL BE FAMILIAR WITH PLUMBING SYSTEMS WITHIN THE PROPERTY. WITH THE BASIC CONCEPTS OF BACKFLOW/CROSS-CONNECTION PROTECTION, THE RECYCLED PURVEYOR'S RULES AND REGULATIONS AND THE SPECIFIC REQUIREMENTS OF A RECYCLED WATER SYSTEM. COPIES OF THE DESIGNATION, WITH CONTACT PHONE NUMBERS SHALL BE PROVIDED TO THE NAME OF WATER DISTRICT AND/OR THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH



- 21. ALL PUBLIC AND PRIVATE POTABLE WATER MAINS INCLUDING FIRE MAINS AND ANY WATER WELLS AND WATER COURSES WITHIN THE RECYCLED WATER PROJECT SHALL BE SHOWN ON THE PLANS.
- 22. CALL OUT ON THE PLANS IF THERE ARE OR ARE NOT DRINKING FOUNTAINS AND/OR DESIGNATED OUTDOOR EATING AREAS ON THIS SITE.
- 23. EDUCATE ALL MAINTENANCE PERSONNEL ON A CONTINUOUS BASIS OF THE PRESENCE OF RECYCLED WATER. PERSONNEL MUST BE INFORMED THAT RECYCLED WATER IS MEANT FOR IRRIGATION PURPOSES ONLY, AND IS NOT APPROVED FOR DRINKING PURPOSES, HAND WASHING, CLEANING OF TOOLS, ETC. GIVEN THE HIGH TURNOVER RATE OF EMPLOYEES IN THE LANDSCAPE INDUSTRY IT IS IMPORTANT THIS INFORMATION BE DISSEMINATED ON AN ALMOST DAILY BASIS.
- 24. A PHYSICAL SEPARATION SHALL BE PROVIDED BETWEEN ADJACENT AREAS IRRIGATED WITH RECYCLED WATER AND POTABLE WATER. SEPARATION SHALL BE PROVIDED BY DISTANCE, CONCRETE MOW STRIPS OR OTHER APPROVED METHODS.



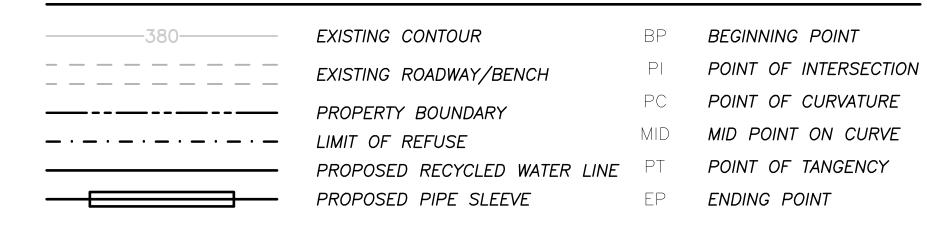
UTILITY NOTES

- 1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD DETAILS AND SPECIFICATIONS OF THE CITY OF SAN DIEGO, THE CURRENT VERSION OF "GUIDELINES FOR THE USE OF WATER" AND ANY ADDENDA THERETO.
- 2. BEFORE COMMENCING EXCAVATION, CONTRACTORS SHALL NOTIFY ALL UTILITY AUTHORITIES OR UTILITY COMPANIES HAVING POSSIBLE INTEREST IN THE WORK, OF CONTRACTORS INTENTION TO EXCAVATE PROXIMATE TO EXISTING FACILITIES, AND CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITIES WITHIN THE WORK
- 3. THE CONTRACTOR SHALL ABIDE BY THE CONDITIONS OF THE WORK PERMITS AND SHALL PERFORM ALL WORK ORDERED BY SAID PERMITS IN CONFORMANCE THEREWITH AS DIRECTED BY THE ENGINEER.
- BACKFILLING AND COMPACTION FOR ALL TRENCHES SHALL BE INSPECTED AND APPROVED BY THE SOILS ENGINEER. NO JETTING IS ALLOWED, ALL COMPACTION SHALL BE BY MECHANICAL MEANS.
- 5. USA NOTIFICATION AT LEAST TWO WORKING DAYS BEFORE STARTING AN EXCAVATION. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT AT (800) 227-2600.
- CONTRACTOR TO SUBMIT TO OWNER MATERIAL COST SHEETS FOR ALL MATERIALS USED ON JOB.
- 8. RECYCLED WATER LINE SHALL BE COLORED PURPLE OR DISTINCTIVELY WRAPPED WITH PURPLE TAPE ON ALL PIPE ABOVE AND BELOW GRADE TO SHOW THAT THE PIPE IS A "NON-POTABLE WATER" SOURCE.

INDEX OF SHEETS

SHEET NO.	TITLE
1	TITLE SHEET AND NOTES
2	SITE PLAN
3	PLAN AND DETAILS
4	PLAN AND X-SECTIONS
5	DETAIL SHEET

LEGEND



DECLARATION OF RESPONSIBILITY

PHONE NO: (909) 390-1328

I HEREBY DECLARE THAT I AM THE CIVIL ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGES OVER THE DESIGN OF THIS PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE AND THE DESIGN IS CONSISTENT WITH CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY THE CITY OF SAN DIEGO AND THE SAN DIEGO COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME. AS THE CIVIL ENGINEER OF WORK. OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

FIRM NAME AND ADDRESS: MICHAEL CULLINANE SWT ENGINEERING SEPTEMBER 11, 2013 800 C. SOUTH ROCHESTER AVE. REGISTRATION NO: 41981 ONTARIO, CA 91761 EXPIRATION DATE: MARCH 31, 2014

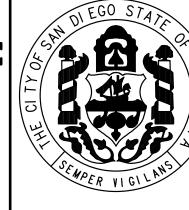


No	Revisions	Ву	Date	PREPARED BY:		PREPARED UNDER THE SUPERVISION OF
				SWT Engineer		PROFESSIONAL A. CULLING
				800 C SOUTH ROCHESTER . ONTARIO, CALIFORNIA 91761		No. 41981 FERR
				DESIGNED BY : J.A.B.	SCALE : AS SHOWN	AN CIVIL ONLY
				DRAWN BY: J.A.B.	DATE : 08-2013	CAL (FO
				CHECKED BY : M.A.C.	DATE :	09/11/13
				APPROVED BY :	DATE :	DATE

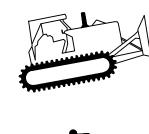


WEST MIRAMAR LANDFILL GREENERY RECYCLED WATER LINE

5180 Convoy Street San Diego, CA 92111



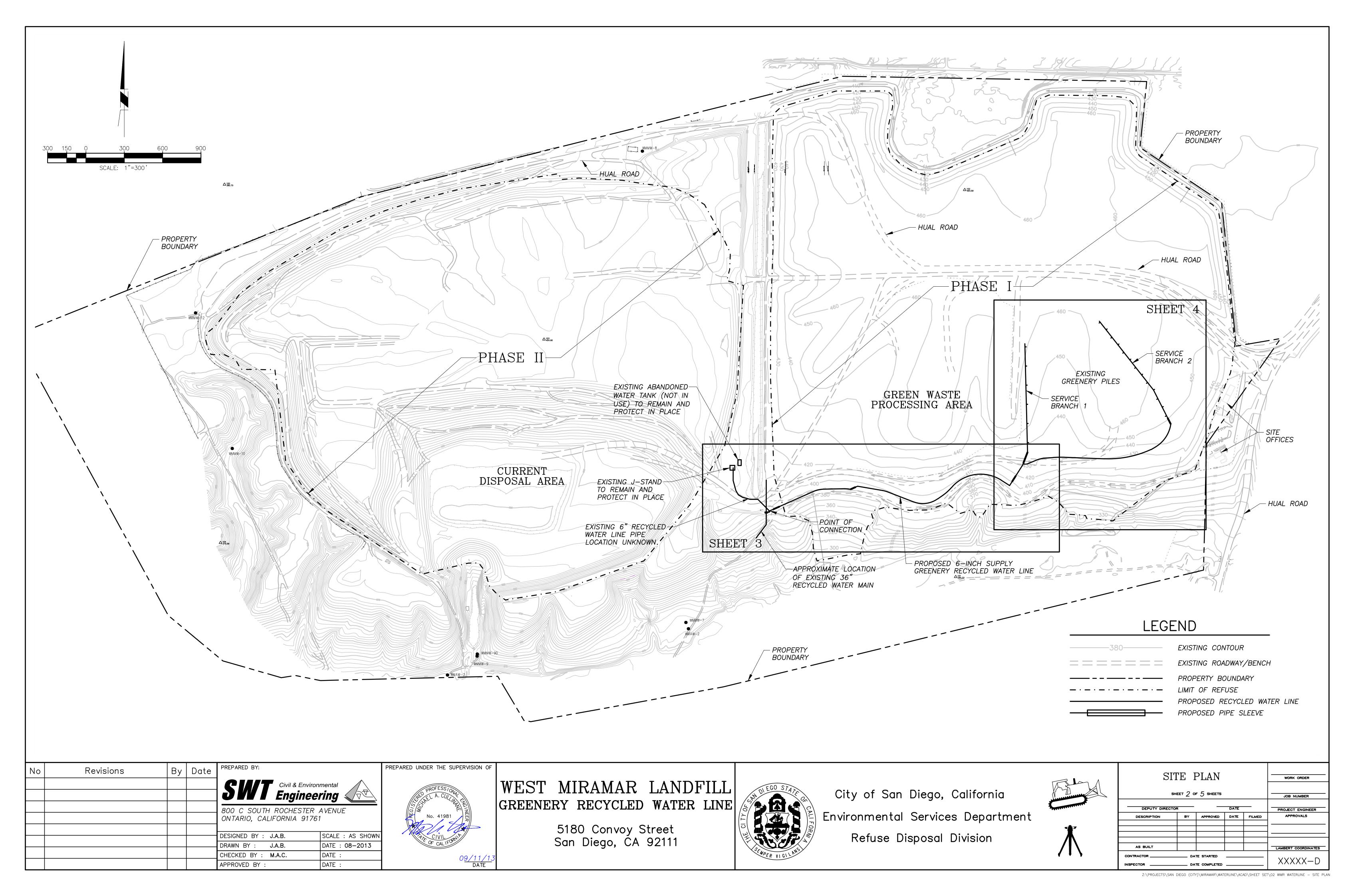
City of San Diego, California Environmental Services Department Refuse Disposal Division

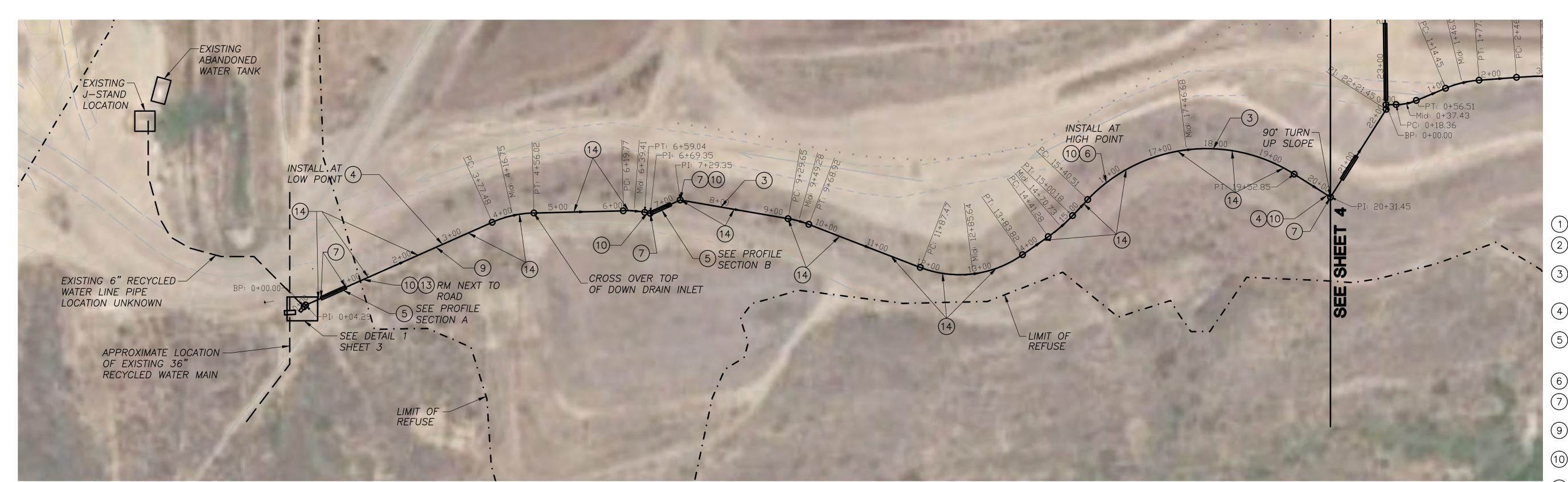


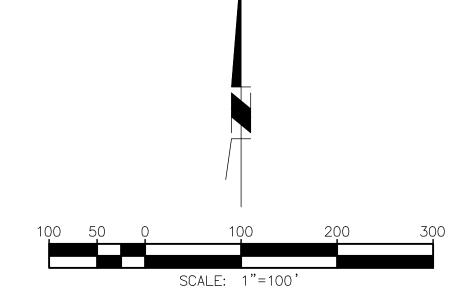
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	DEPU	ITY DIRECTOR	1	_	DATE	_	PROJECT ENGINEER
	DESCRIP	TION	BY	APPROVED	DATE	FILMED	APPROVALS
	AS BUIL	т					LAMBERT COORDINATES
	CONTRACTOR _						XXXXX-D
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Z:\PROJECTS\SAN DIEGO (CITY)\MIRAMAR\WATERLINE\ACAD\SHEET SET\01 WMR WATERLINE - TITLE SHEE

Attachment A - Project Description, Scope of Work, Technical Specifications, and Bridging Documents Organics Processing Facility

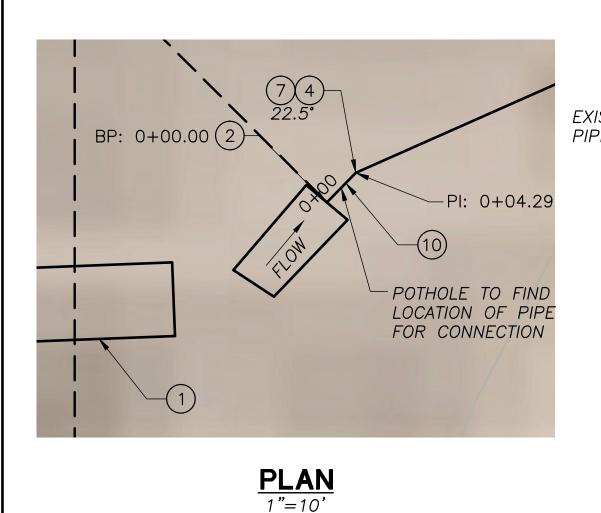


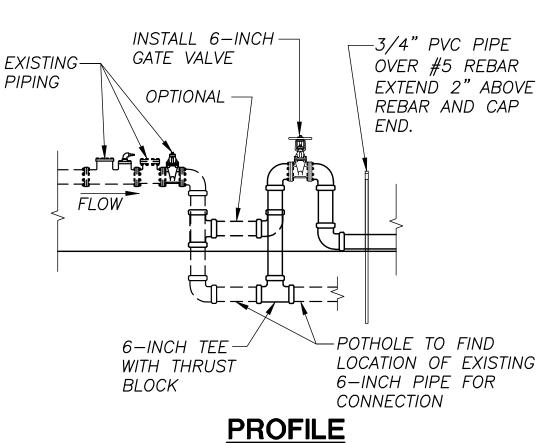




CONSTRUCTION NOTES

- (1) PROTECT IN PLACE
- 2 CONNECT TO EXISTING 6-INCH 1 RECYCLED WATER SUPPLY LINE 3
- (3) INSTALL 6-INCH HDPE RECYCLED (2)WATERLINE ADJACENT TO EXISTING 3
- (4) INSTALL 2-INCH BLOW-OFF ASSEMBLY PER SAN DIEGO REGIONAL STANDARD DRAWING WB-02
- (5) INSTALL 12" CORRUGATED HDPE PIPE SLEEVE UNDER ROAD, GROUT ANNULAR SPACE AT ENDS OF SLEEVE-
- (6) INSTALL AIR RELEASE VALVE (5
- (7) CONSTRUCT CONCRETE TRUST BLOCK PER CITY OF SAN DIEGO STANDARD DETAIL WT-01
- (9) INSTALL 6-INCH HDPE RECYCLED WATER LINE AT SOUTH SIDE OF BENCH -
- (10) INSTALL INLINE 6-INCH FLANGED RESILIENT WEDGE GATE VALVE, OR APPROVED EQUIVALENT
- (13) INSTALL ELSTER 6" EPOXY COATED CAST IRON TURBINE RECYCLED WATER METER, MODEL# TS4000, OR APPROVED EQUIVALENT
- 14) INSTALL "DO NOT DRINK" SIGN PLACED EVERY 4
 100 LF NEXT TO THE RECYCLED WATER LINE 5





CONNECTION TO EXISTING RECYCLED WATER LINE

DATE : 08-2013

DATE :

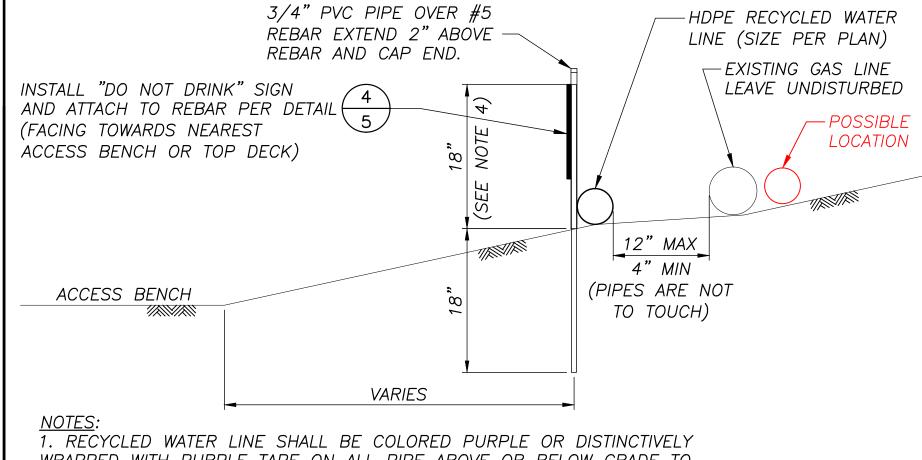
DATE :



RECYCLED WATER METER INFORMATION:

METER NO: ADDRESS:

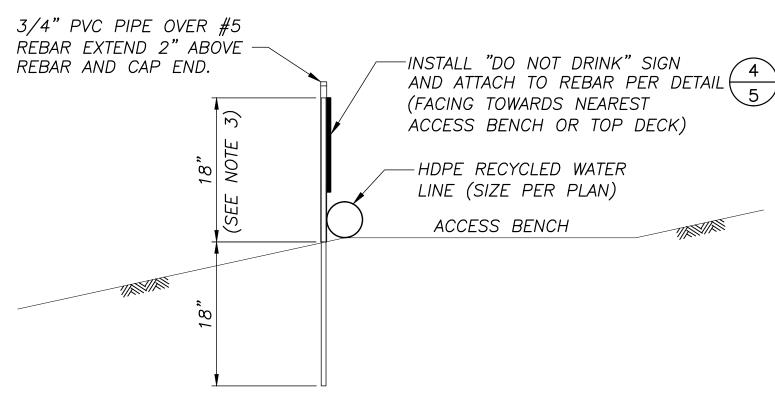
1629119 5272 CONVOY STREET SAN DIEGO, CA 92111



WRAPPED WITH PURPLE TAPE ON ALL PIPE ABOVE OR BELOW GRADE TO SHOW THAT THE PIPE IS A "NON-POTABLE WATER" SOURCE.

- 2. CONTRACTOR TO ADJUST GRADE TO SUPPORT PIPE, WHILE NOT IMPENDING DRAINAGE.
- 3. PIPE MAY BE INSTALLED ADJACENT TO THE ROAD.
- 4. INSTALL REBAR AND PVC 30" ABOVE GRADE AND ATTACH "DO NOT DRINK" SIGN, LOCATION PER PLAN.

RECYCLED WATER LINE ADJACENT TO EXISTING GAS LINE



1. RECYCLED WATER LINE SHALL BE COLORED PURPLE OR DISTINCTIVELY WRAPPED WITH PURPLE TAPE ON ALL PIPE ABOVE AND BELOW GRADE TO SHOW THAT THE PIPE IS A "NON-POTABLE WATER" SOURCE.

2. CONTRACTOR TO ADJUST GRADE TO SUPPORT PIPE, WHILE NOT IMPENDING DRAINAGE.

3. INSTALL REBAR AND PVC 30" ABOVE GRADE AND ATTACH "DO NOT DRINK" SIGN, LOCATION PER PLAN.

> DECYCLED WATED LINE DECK / 3

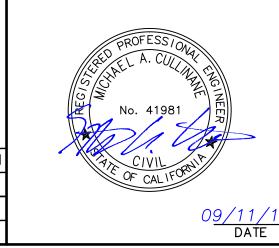
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No	Revisions	Ву	Date	PREPARED BY:			
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				SITT Civil & Environmental Engineering	7		
				800 C SOUTH ROCHESTER AVENUE	_		
				ONTARIO, CALIFORNIA 91761			
				DESIGNED BY: J.A.B. SCALE: AS SHO	WN		

DRAWN BY: J.A.B.

CHECKED BY : M.A.C.

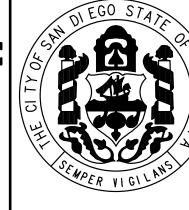
APPROVED BY :



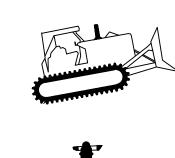
PREPARED UNDER THE SUPERVISION OF

WEST MIRAMAR LANDFILL GREENERY RECYCLED WATER LINE

> 5180 Convoy Street San Diego, CA 92111

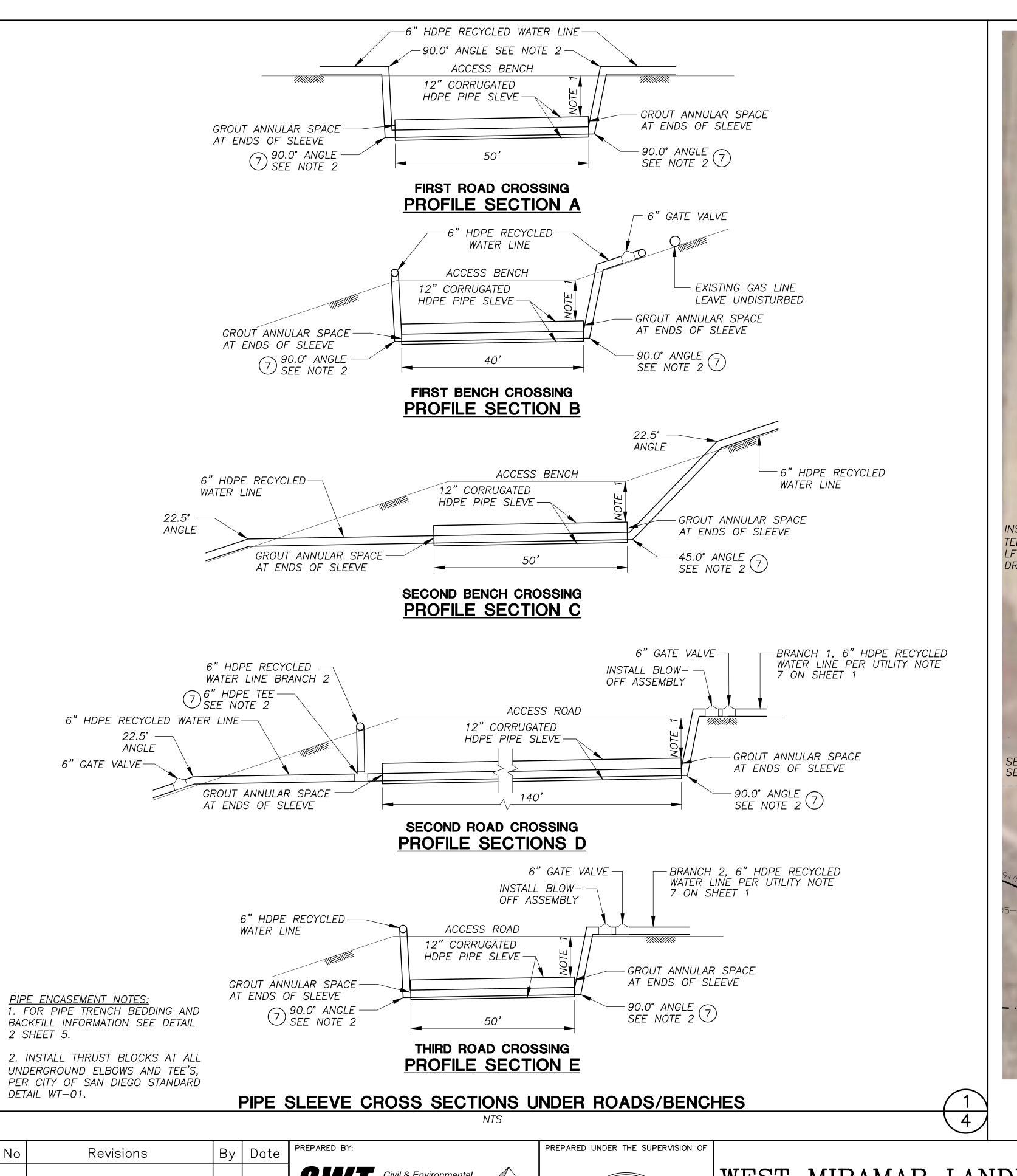


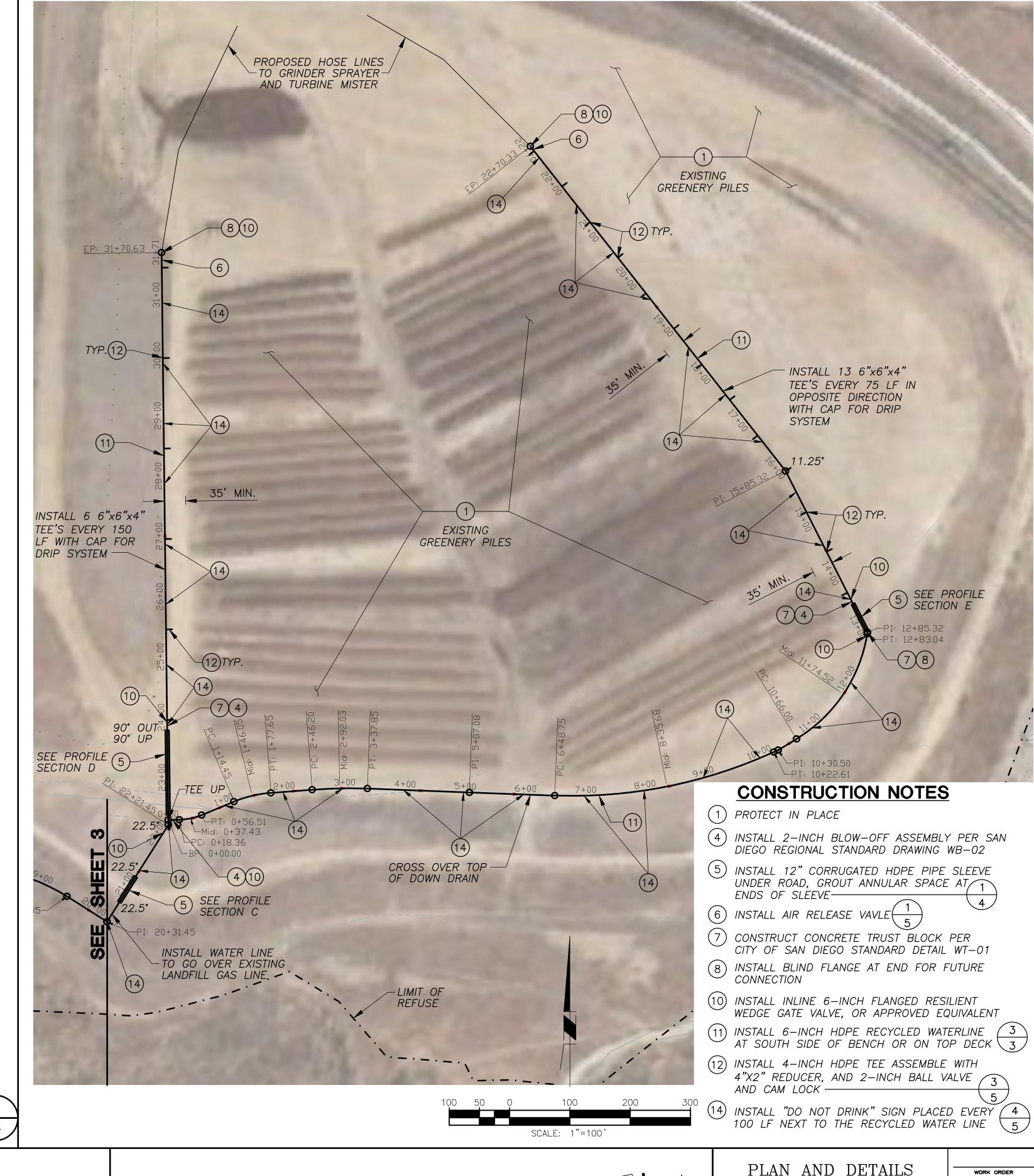
City of San Diego, California Environmental Services Department Refuse Disposal Division



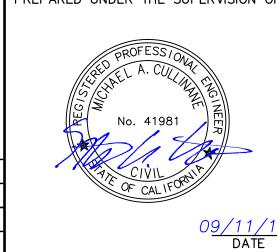
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Attachment A - Project Description, Scope of Work, Technical Specifications, and Bridging Documents Organics Processing Facility





Engineering 800 C SOUTH ROCHESTER AVENUE ONTARIO, CALIFORNIA 91761 DESIGNED BY : J.A.B. SCALE : AS SHOWN DATE : 08-2013 J.A.B. DRAWN BY : CHECKED BY : M.A.C. DATE : DATE : APPROVED BY :

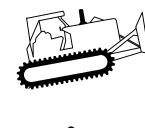


WEST MIRAMAR LANDFILL GREENERY RECYCLED WATER LINE

> 5180 Convoy Street San Diego, CA 92111



City of San Diego, California Environmental Services Department Refuse Disposal Division



PLAN AND DETAILS							
SHEET 4 OF 5 SHEETS							
OR	_	DATE		PROJECT ENGINEER			
BY	APPROVED	DATE	FILMED	APPROVALS			
				LAMBERT COORDINATES			
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	SHEET 4 O	SHEET 4 OF 5 SHEETS TOR BY APPROVED DATE STARTED	DATE BY APPROVED DATE	SHEET 4 OF 5 SHEETS TOR DATE BY APPROVED DATE FILMED DATE STARTED			

INSTALL 13 6"x6"x4"

OPPOSITE DIRECTION WITH CAP FOR DRIP

SYSTEM

11.25°

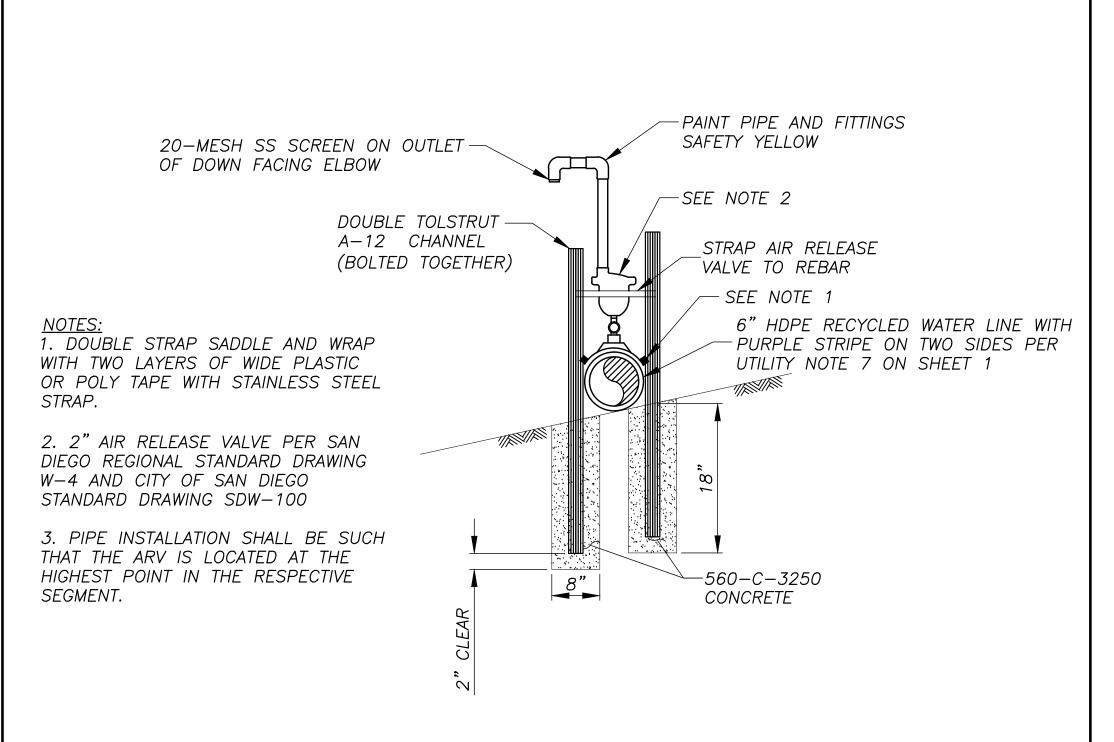
TEE'S EVERY 75 LF IN

-(12) TYP.

SEE PROFILE SECTION E

PI: 12+85.32 PT: 12+83.04

78



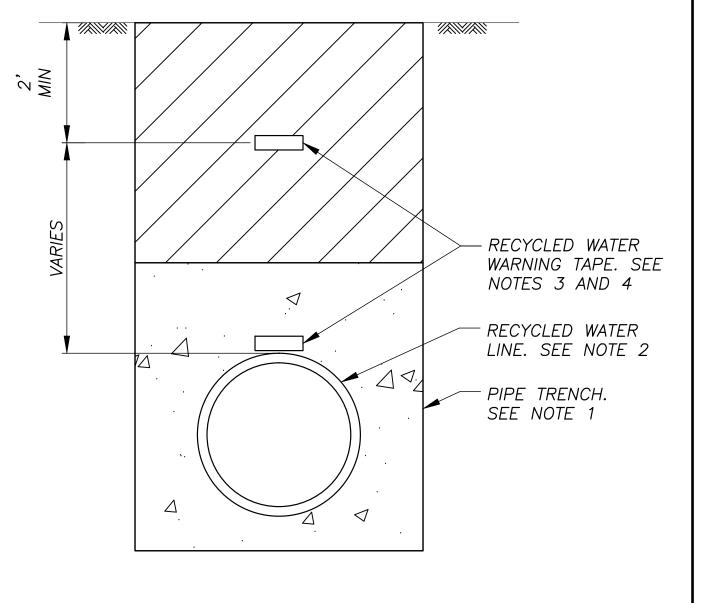
1. TRENCH DETAILS SHALL BE PER SAN DIEGO STANDARD DRAWINGS 1-25, 1-26 OR W-21.

2. RECYCLED WATER LINE SHALL BE PURPLE COLOR CODED INTEGRALLY MARKED AS NEW "CAUTION-RECYCLED WATER-DO NOT DRINK" AND "PULIGRO: IMPURA-NO BEBER" OR USE A PURPLE POLYETHYLENE OR VINYL WRAP OR USE RECYCELD WATER WARNING TAPE.

3. RECYCLED WATER WARNING TAPE 6 INCHES WIDE FOR 6-INCH AND SMALLER PIPE AND 12 INCHES WIDE FOR 8-INCH OR LARGER PIPE SHALL BE PURPLE WITH BLACK LETTERING STATING :CAUTION-RECYCLED WATER-DO NOT DRINK" AND "PELIGRO: AGUA IMPURA-NO BEBER" AND SHALL BE PLACED 2 FT BELOW FINISHED SURFACE. AN ADDITIONAL TAPE ALONG TOP OF PIPE SHALL BE SECURED EVERY 3 FT TO TOP OF PIPE (EXCEPT FOR PURPLE COLORED PIPE IDÈNTIFIED AS RECYCLED WATER).

4. FOR NON-METALLIC PIPE, METALLIC RECYCLED WATER WARNING TAPE SHALL BE USED AT THE 2 FT DEPTH BELOW FINISH SURFACE PER SAN DIEGO STANDARD DRAWING W-25.

5. THE TERM "RECLAIMED WATER" IS THE SAME AS THE TERM "RECYCLED WATER".



* PER THE CITY OF SAN DIEGO

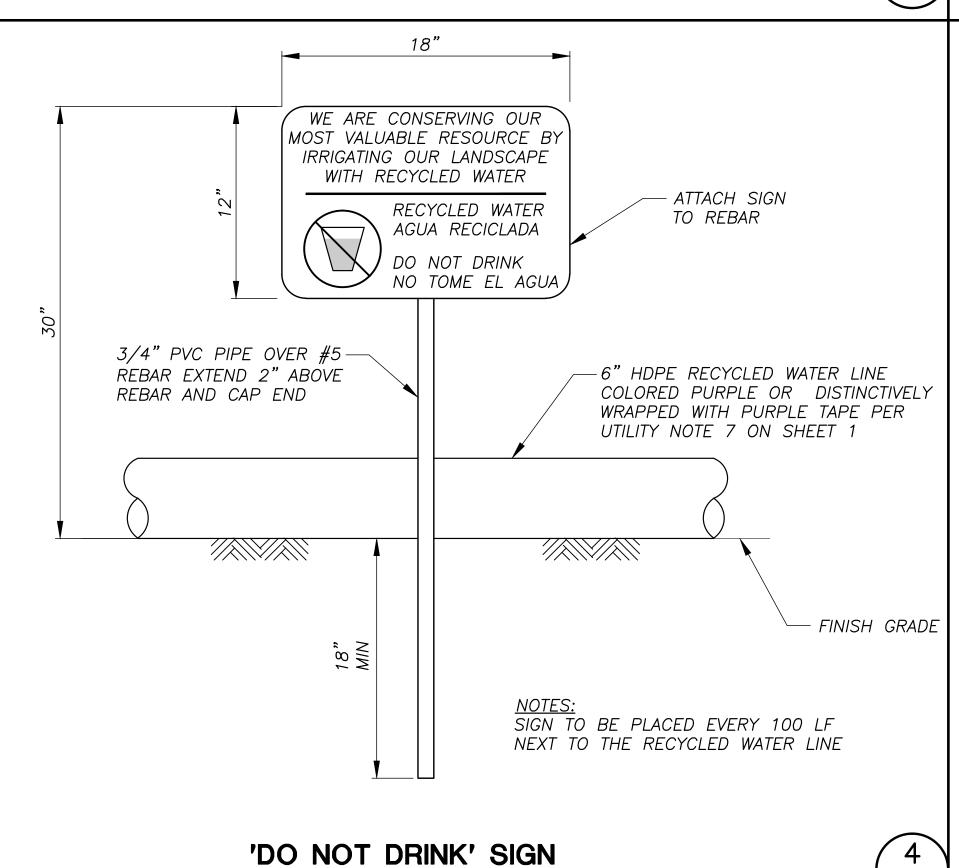
STANDARD DETAIL CIP RW-101

- INSTALL 2-INCH BALL VALVE *INSTALL 6"x6"x4"— HDPE TEE - INSTALL 2—INCH 6" HDPE RECYCLED WATER CAMLOCK LINE WITH PURPLE STRIPE ON TWO SIDES PER UTILITY *INSTALL 4-INCH TO NOTE 7 ON SHEET 1 2-INCH REDUCER

AIR RELEASE VALVE (ABOVE GROUND)

HDPE PIPE TRENCH SECTION

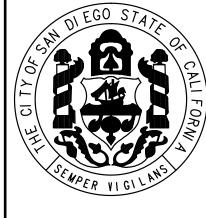
HDPE PIPE TEE CONNECTION DETAIL



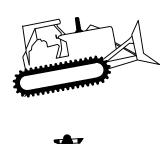
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				APPROVED BY: DA	TE :	DATE

WEST MIRAMAR LANDFILL GREENERY RECYCLED WATER LINE

> 5180 Convoy Street San Diego, CA 92111



City of San Diego, California Environmental Services Department Refuse Disposal Division



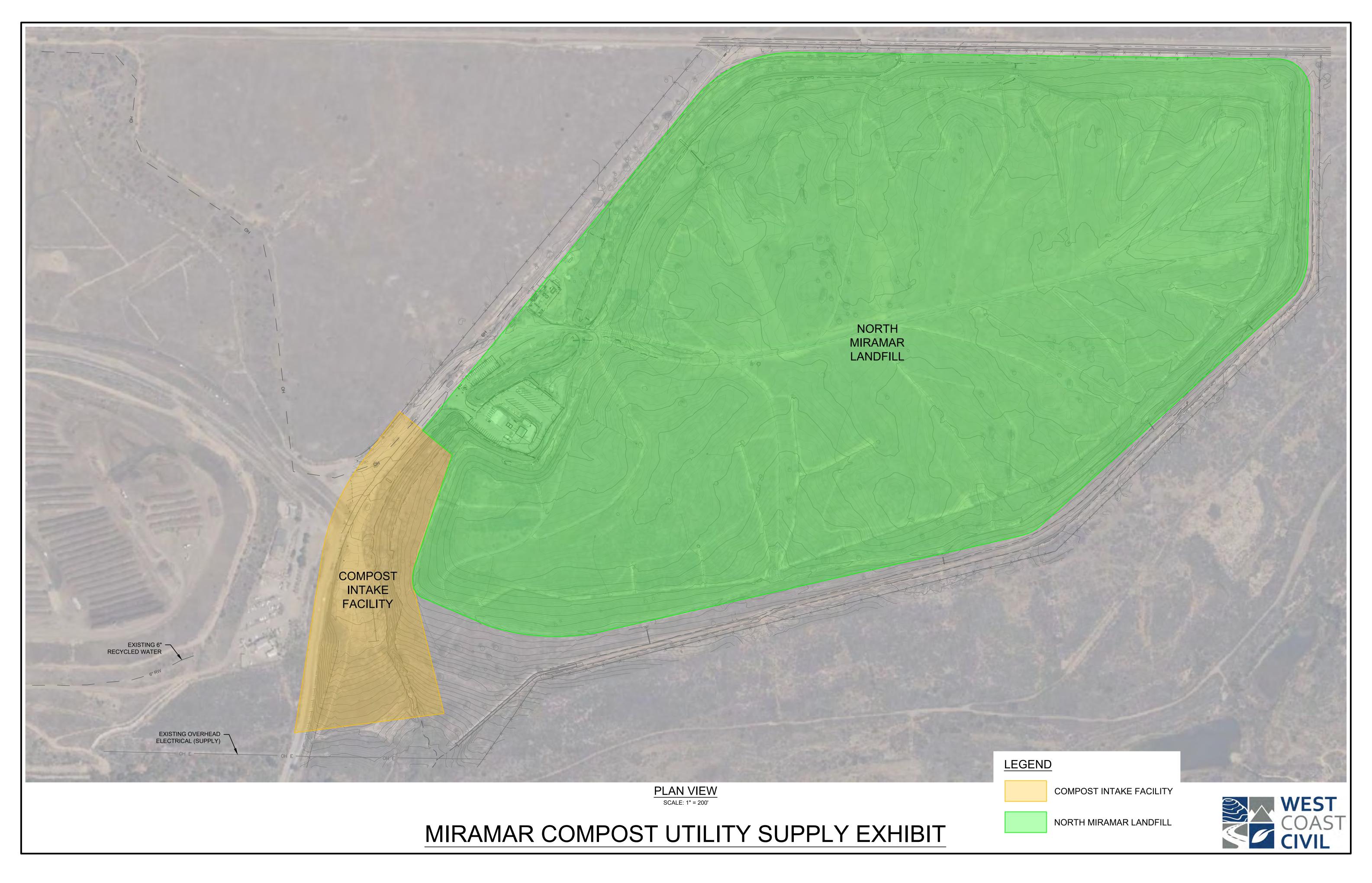
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CONTRACTOR					XXXXX—D
INSPECTOR	DA	TE COMPLETED			,,,,,,,,

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Attachment A - Project Description, Scope of Work, Technical Specifications, and Bridging Documents Organics Processing Facility

Appendix H-4 Incoming Power Supply Configuration

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ATTACHMENT B

PHASED FUNDING PROVISIONS

PHASED FUNDING PROVISIONS

1. PRE-AWARD

1.1. Within 10 Working Days of the Notice of Intent to Award, the Design - Builder must contact the Project Manager to discuss fund availability for each phase and shall also submit the following:

Within 10 Working Days after the Bid Opening date, the Apparent Low Bidder must contact the Project Manager to discuss fund availability for each phase and shall also submit the following:

- **1.1.1.** Construction Cost Loaded Schedule in accordance with 6-1, "CONSTRUCTION SCHEDULE AND COMMENCEMENT OF THE WORK" and 9-3, "PAYMENT.
- **1.2.** Your failure to perform any of the following may result in cancellation of the recommendation for award of the Contract:

1.3.

- **1.3.1.** Meeting with the City's Project Manager to discuss the Phased Funding Schedule.
- **1.3.2.** Agreeing to a Phased Funding Schedule within sixty Working Days after meeting with the City's Project Manager.

2. POST-AWARD

- **2.1.** You shall not start any construction activities for the next phase until the NTP has been issued by the Engineer. The City will issue separate Notice to Proceed (NTP) documents for each phase.
- **2.2.** If requested, the Engineer may issue the NTP for the next phase before the end of the current approved phase.

PHASED FUNDING SCHEDULE AGREEMENT

RFP NUMBER: K-22-2049-DB1-3-C

CONTRACT OR TASK TITLE: Organics Processing Facility (L-17000.2)

CONTRACTOR: Sukut Construction, LLC.

Funding Phase	Phase Description	Phase <u>Start</u>	Phase <u>Finish</u>	Not-to- Exceed Amount
1	Bid Items 1-2, 4-5, 7-10	Notice to Proceed	250 th Working Day	\$17,358,000
2	Bid Item 6 – City Contingency	Notice to Proceed	500 th Working Day	\$5,000,000
3	Additive Alternate - Bid Item 1 – Engineering and Design Services	Notice to Proceed	250 th Working Day	\$50,000
4A	Bid Item 3 – Construction (Site Preparation)	191 st Working Day	240 th Working Day	\$5,000,000
4B	Bid Item 3 - Construction	220 th Working Day	500 th Working Day	\$35,325,000
5	Additive Alternate – Bid Items 2, 3 - Maximum Tonnage	220 th Working Day	500 th Working Day	\$14,500,000
			Contract Total	\$77,233,000

Notes

- 1) WHITEBOOK section 7-3.10, "Phased Funding Compensation" applies.
- 2) The total of all funding phases shall be equal to the TOTAL BID PRICE as shown on BID SCHEDULE 1 PRICES.
- 3) This PHASED FUNDING SCHEDULE AGREEMENT will be incorporated into the CONTRACT and shall only be revised by written modifications to the CONTRACT.

CITY OF SAN DIEGO	CONTRACTOR
PRINT NAME: Luis Campos	PRINT NAME: Eddie Suarez
Signature: Project Manager	Title: Vice President
Date: 7/28/2022	Signature:
	Date: 7-28-22

PRINT NAM	Carlos A. Parra		
	Construction Manager		
Signature:	Carlos Parra		
_	/3/2022		
Date O/	3/2022		

ATTACHMENT C

EQUAL OPPORTUNITY CONTRACTING PROGRAM

EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP)

SECTION A - GENERAL REQUIREMENTS

A. INTRODUCTION.

- 1. This document sets forth the following specifications:
 - a) The City's general EOCP requirements for all Construction Contracts.
 - b) Special Provisions for Contracts subject to SLBE and ELBE requirements only.
- 2. Additional requirements may apply for state or federally funded projects.
- 3. These requirements shall be included as Contract provisions for all Subcontracts.
- 4. The City specified forms, instructions, and guides are available for download from the EOCP's web site at: http://www.sandiego.gov/eoc/forms/index.shtml

B. GENERAL.

- 1. The City of San Diego promotes equal employment and subcontracting opportunities.
- 2. The City is committed to ensuring that taxpayer dollars spent on public Contracts are not paid to businesses that practice discrimination in employment or subcontracting.
- 3. The City encourages all companies seeking to do business with the City to share this commitment.

C. DEFINITIONS.

- 1. For the purpose of these requirements: Terms "Bid" and "Proposal", "Bidder" and "Proposer", "Subcontractor" and "Subconsultant", "Contractor" and "Consultant", "Contractor" and "Prime Contractor", "Consultant" and "Professional Service Provider", "Suppliers" and "Vendors", "Suppliers" and "Dealers", and "Suppliers" and "Manufacturers" may have been used interchangeably.
- 2. The following definitions apply:
 - a) **Emerging Business Enterprise (EBE)** A for-profit business that is independently owned and operated; that is not a subsidiary or franchise of another business and whose gross annual receipts do not exceed the amount set by the City Manager and that meets all other criteria set forth in regulations implementing Municipal Code Chapter 2, Article 2, Division 36. The City Manager shall review the threshold amount for EBEs on an annual basis and adjust as necessary to reflect changes in the marketplace.
 - b) **Emerging Local Business Enterprise (ELBE)** A Local Business Enterprise that is also an Emerging Business Enterprise.

- c) **Minority Business Enterprise (MBE)** A certified business that is at least fifty-one percent (51%) owned by one or more minority individuals, or, in the case of a publicly owned business at least fifty-one percent (51%) of the stock is owned by one or more minority individuals; and (2) whose daily business operations are managed and directed by one or more minorities owners. Minorities include the groups with the following ethnic origins: African, Asian Pacific, Asian Subcontinent, Hispanic, Native Alaskan, Native American, and Native Hawaiian.
- d) **Women Business Enterprise (WBE)** A certified business that is at least fifty-one percent (51%) owned by a woman or women, or, in the case of a publicly owned business at least fifty-one percent (51%) of the stock is owned by one or more women; and (2) whose daily business operations are managed and directed by one or more women owners.
- e) **Disadvantaged Business Enterprise (DBE)** a certified business that is at least fifty-one percent (51%) owned by socially and economically disadvantaged individuals, or, in the case of a publicly owned business at least fifty-one percent (51%) of the stock is owned by one or more socially and economically disadvantaged individuals; and (2) whose daily business operations are managed and directed by one or more socially and economically disadvantaged owners.
- f) **Disabled Veteran Business Enterprise (DVBE)** A certified business that is at least fifty-one percent (51%) owned by one or more disabled veterans; and (2) business operations must be managed and controlled by one or more disabled veterans. Disabled Veteran is a veteran of the U.S. military, naval, or air service; the veteran must have a service-connected disability of at least 10% or more; and the veteran must reside in California.
- g) Other Business Enterprise (OBE) Any business which does not otherwise qualify as a Minority, Woman, Disadvantaged, or Disabled Veteran Business Enterprise.
- h) **Small Business Enterprise (SBE)** A for-profit business that is independently owned and operated; that is not a subsidiary or franchise of another business and whose gross annual receipts do not exceed the amount set by the City Manager and that meets all other criteria set forth in regulations implementing Municipal Code Chapter 2, Article 2, Division 36. The City Manager shall review the threshold amount for SBEs on an annual basis and adjust as necessary to reflect changes in the marketplace. A business certified as a Micro Business (MB) or a Disabled Veteran Business Enterprise (DVBE) by the State of California and that has provided proof of such certification to the City Manager shall be deemed to be an SBE.

i) **Small Local Business Enterprise (SLBE)** - A Local Business Enterprise that is also a Small Business Enterprise.

D. CITY'S EQUAL OPPORTUNITY COMMITMENT.

- 1. **Nondiscrimination in Contracting Ordinance.**
 - a) You, your Subcontractors, and Suppliers shall comply with the requirements of the City's Nondiscrimination in Contracting Ordinance, San Diego Municipal Code §§22.3501 through 22.3517.

You shall not discriminate on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age, or disability in the solicitation, selection, hiring, or treatment of subcontractors, vendors, or suppliers. You shall provide equal opportunity for Subcontractors to participate in subcontracting opportunities. You understand and agree that the violation of this clause shall be considered a material breach of the Contract and may result in Contract termination, debarment, or other sanctions.

You shall include the foregoing clause in all Contracts between you and your Subcontractors and Suppliers.

- b) **Disclosure of Discrimination Complaints.** As part of its Bid or Proposal, you shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against you in a legal or administrative proceeding alleging that you discriminated against your employees, Subcontractors, vendors, or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.
- c) Upon the City's request, You agree to provide to the City, within 60 Calendar Days, a truthful and complete list of the names of all Subcontractors and Suppliers that you have used in the past 5 years on any of your Contracts that were undertaken within the San Diego County, including the total dollar amount paid by you for each Subcontract or supply Contract.
- d) You further agree to fully cooperate in any investigation conducted by the City pursuant to the City's Nondiscrimination in Contracting Ordinance, Municipal Code §§22.3501 through 22.3517. You understand and agree that violation of this clause shall be considered a material breach of the Contract and may result in remedies being ordered against you up to and including contract termination, debarment, and other sanctions for the violation of the provisions of the Nondiscrimination in Contracting Ordinance. You further understand and agree that the procedures, remedies, and sanctions provided for in the Nondiscrimination in Contracting Ordinance apply only to violations of the Ordinance.

E. EQUAL EMPLOYMENT OPPORTUNITY OUTREACH PROGRAM.

1. You, your Subcontractors, and Suppliers shall comply with the City's Equal Employment Opportunity Outreach Program, San Diego Municipal Code §§22.2701 through 22.2707.

You shall not discriminate against any employee or applicant for employment on any basis prohibited by law. You shall provide equal opportunity in all employment practices. You shall ensure that your Subcontractors comply with this program. Nothing in this section shall be interpreted to hold you liable for any discriminatory practices of your Subcontractors.

You shall include the foregoing clause in all Contracts between you and your Subcontractors and Suppliers.

- 2. If the Contract is competitively solicited, the selected Bidder shall submit a Work Force Report (Form BB05) within 10 Working Days after receipt by the Bidder to the City for approval as specified in the Notice of Intent to Award letter.
- 3. The selected Bidder shall submit an Equal Employment Opportunity Plan if a Work Force Report is submitted and if the City determines that there are under-representations when compared to County Labor Force Availability data.
- 4. If the selected Bidder submits an Equal Employment Opportunity Plan, it shall include the following assurances:
 - a) You shall maintain a working environment free of discrimination, harassment, intimidation, and coercion at all Sites and in all facilities at which your employees are assigned to Work.
 - b) You shall review your EEO Policy annually with all on-Site supervisors involved in employment decisions.
 - c) You shall disseminate and review your EEO Policy with all employees at least once a year, post the policy statement and EEO posters on all company bulletin boards and job sites, and document every dissemination, review, and posting with a written record to identify the time, place, employees present, subject matter, and disposition of meetings.
 - d) You shall review, at least annually, all supervisors' adherence to and performance under the EEO Policy and maintain written documentation of these reviews.
 - e) You shall discuss your EEO Policy Statement with Subcontractors with whom you anticipate doing business, including the EEO Policy Statement in your Subcontracts, and provide such documentation to the City upon request.

- f) You shall document and maintain a record of all Bid solicitations and outreach efforts to and from Subcontractors, contractor associations, and other business associations.
- g) You shall disseminate your EEO Policy externally through various media, including the media of people of color and women, in advertisements to recruit. Maintain files documenting these efforts and provide copies of these advertisements to the City upon request.
- h) You shall disseminate your EEO Policy to union and community organizations.
- You shall provide immediate written notification to the City when any union referral process has impeded your efforts to maintain your EEO Policy.
- j) You shall maintain a current list of recruitment sources, including those outreaching to people of color and women, and provide written notification of employment opportunities to these recruitment sources with a record of the organizations' responses.
- k) You shall maintain a current file of names, addresses and phone numbers of each walk-in applicant, including people of color and women, and referrals from unions, recruitment sources, or community organizations with a description of the employment action taken.
- l) You shall encourage all present employees, including people of color and women employees, to recruit others.
- m) You shall maintain all employment selection process information with records of all tests and other selection criteria.
- n) You shall develop and maintain documentation for on-the-job training opportunities, participate in training programs, or both for all of your employees, including people of color and women, and establish apprenticeship, trainee, and upgrade programs relevant to your employment needs.
- o) You shall conduct, at least annually, an inventory and evaluation of all employees for promotional opportunities and encourage all employees to seek and prepare appropriately for such opportunities.
- p) You shall ensure that the company's working environment and activities are non-segregated except for providing separate or single-user toilets and necessary changing facilities to assure privacy between the sexes.

F. SUBCONTRACTING.

1. The City encourages all eligible business enterprises to participate in City contracts as a Contractor, Subcontractor, and joint venture partner with you, your Subcontractors, or your Suppliers. You are encouraged to take positive

- steps to diversify and expand your Subcontractor solicitation base and to offer subcontracting opportunities to all eligible business firms including SLBEs, ELBEs, MBEs, WBEs, DBEs, DVBEs, and OBEs.
- 2. For Subcontractor participation level requirements, see the Contract Documents where applicable.
- 3. For the purposes of achieving the mandatory Subcontractor participation percentages, City percentage calculations will not account for the following:
 - a) "Field Orders" and "City Contingency" Bid items.
 - b) Alternate Bid items.
 - c) Allowance Bid items designated as "EOC Type II".
- 4. Allowance Bid items designated as "EOC Type I" will be considered as part of the Base Bid and will be included in the percentage calculation.
- 5. Each joint venture partner shall be responsible for a clearly defined Scope of Work. In addition, an agreement shall be submitted and signed by all parties identifying the extent to which each joint venture partner shares in ownership, control, management, risk, and profits of the joint venture.

G. LISTS OF SUBCONTRACTORS AND SUPPLIERS.

- 1. You shall comply with the Subletting and Subcontracting Fair Practices Act, Public Contract Code §§4100 through 4113, inclusive.
- 2. You shall list all Subcontractors who will receive more than 0.5% of the total Bid amount or \$10,000, whichever is greater on the form provided in the Contract Documents (Subcontractors list).
- 3. The Subcontractors list shall include the Subcontractor's name, telephone number including area code, physical address, Scope of Work, the dollar amount of the proposed Subcontract, the California contractor license number, the Public Works contractor registration number issued pursuant to Section 1725.5 of the Labor Code, and the Subcontractor's certification status with the name of the certifying agency.
- 4. The listed Subcontractor shall be appropriately licensed pursuant to Contractor License Laws.
- 5. For Design-Build Contracts, refer to the RFQ and RFP for each Project or Task Order.

H. SUBCONTRACTOR AND SUPPLIER SUBSTITUTIONS.

- 1. Listed Subcontractors and Suppliers shall not be substituted without the Express authorization of the City or its duly authorized agent.
- 2. Request for Subcontractor or Supplier substitution shall be made in writing to Public Works Contracting, Attention Contracts Specialist, 525 B Street, Suite 750, San Diego, CA 92101 with a copy to the Engineer.

- 3. The request shall include a thorough explanation of the reason(s) for the substitution, including dollar amounts and a letter from each substituted Subcontractor or Supplier stating that they (the Subcontractors or Suppliers) release all interest in working on the Project and written confirmation from the new Subcontractor or Supplier stating that they agree to work on the Project along with the dollar value of the Work to be performed.
- 4. Written approval of the substitution request shall be received by you or from the City or its authorized officer prior to any unlisted Subcontractor or Supplier performing Work on the Project.
- 5. Substitution of Subcontractors and Suppliers without authorization shall subject you to those penalties set forth in Public Contract Code §4110.
- 6. Requests for Supplier substitution shall be made in writing at least 10 Days prior to the provision of materials, supplies, or services by the proposed Supplier and shall include proof of written notice to the originally listed Supplier of the proposed substitution.
- 7. A Proposer whose Bid is accepted shall not:
 - a) Substitute a person as Subcontractor or Supplier in place of the Subcontractor or Supplier listed in the original bid, except that the City, or it's duly authorized officer, may consent to the substitution of another person as a Subcontractor or Supplier in any of the following situations:
 - i. When the Subcontractor or Supplier listed in the Bid, after having a reasonable opportunity to do so, fails or refuses to execute a written Contract for the scope of work specified in the subcontractor's bid and at the price specified in the subcontractor's bid, when that written contract, based upon the general terms, conditions, plans, and specifications for the project involved or the terms of the subcontractor's written bid, is presented to the subcontractor by the prime contractor.
 - ii. When the listed Subcontractor or Supplier becomes insolvent or the subject of an order for relief in bankruptcy.
 - iii. When the listed Subcontractor or Supplier fails or refuses to perform his or her subcontract.
 - iv. When the listed Subcontractor fails or refuses to meet bond requirements as set forth in Public Contract Code §4108.
 - v. When you demonstrate to the City or it's duly authorized officer, subject to the provisions set forth in Public Contract Code §4107.5, that the name of the Subcontractor was listed as the result of an inadvertent clerical error.
 - vi. When the listed Subcontractor is not licensed pursuant to Contractor License Law.

- vii. When the City, or it's duly authorized officer, determines that the Work performed by the listed Subcontractor or that the materials or supplies provided by the listed Supplier are substantially unsatisfactory and not in substantial accordance with the Plans and specifications or that the Subcontractor or Supplier is substantially delaying or disrupting the progress of the Work.
- viii. When the listed Subcontractor is ineligible to work on a public works project pursuant to §§1777.1 or 1777.7 of the Labor Code.
- ix. When the City or its duly authorized agent determines that the listed Subcontractor is not a responsible contractor.
- b) Permit a Contract to be voluntarily assigned or transferred or allow it to be performed by anyone other than the original Subcontractor, Supplier listed in the original Bid without the consent of the City, or it's duly authorized officer.
- c) Other than in the performance of "Change Orders" causing changes or deviations from the Contract, sublet or subcontract any portion of the Work, or contract for materials or supplies in excess of 0.5% of your total bid or \$10,000, whichever is greater, as to which his or her original Bid did not designate a Subcontractor or Supplier.
- 8. Following receipt of notice from you of the proposed substitution of a Subcontractor or Supplier, the listed Subcontractor or Supplier who has been so notified shall have 5 Working Days within which to submit written objections to the substitution to the Contract Specialist with a copy to the Engineer. Failure to file these written objections shall constitute the listed Subcontractor or Supplier's consent to the substitution. If written objections are filed, the City shall give notice in writing of at least 5 Working Days to the listed Subcontractor or Supplier of a hearing by the City on your request for substitution.

I. PROMPT PAYMENT.

- 1. You or your Subcontractors shall pay to any subcontractor, not later than 7 Calendar Days of receipt of each progress payment, unless otherwise agreed to in writing, the respective amounts allowed you on account of the Work performed by the Subcontractors, to the extent of each Subcontractor's interest therein. In cases of Subcontractor performance deficiencies, you shall make written notice of any withholding to the Subcontractor with a copy to the Contracts Specialist. Upon correction of the deficiency, you shall pay the Subcontractor the amount previously withheld within 14 Calendar Days after payment by the City.
- 2. Any violation of California Business and Professions Code, §7108.5 concerning prompt payment to Subcontractors shall subject the violating Contractor or Subcontractor to the penalties, sanctions, and other remedies of that section.

This requirement shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to you or your Subcontractor in the event of a dispute involving late payment or nonpayment by the Prime Contractor, deficient subcontract performance, or noncompliance by a Subcontractor.

J. PROMPT PAYMENT OF FUNDS WITHHELD TO SUBCONTRACTORS.

- 1. The City will hold retention from you and will make prompt and regular incremental acceptances of portions, as determined by the Engineer, of the Work and pay retention to you based on these acceptances.
- 2. You or your Subcontractors shall return all monies withheld in retention from a Subcontractor within 30 Calendar Days after receiving payment for Work satisfactorily completed and accepted including incremental acceptances of portions of the Work by the City.
- 3. Federal law (49CFR26.29) requires that any delay or postponement of payment over 30 Calendar Days may take place only for good cause and with the City's prior written approval. Any violation of this provision by you or your Subcontractor shall subject you or your Subcontractor to the penalties, sanctions, and other remedies specified in §7108.5 of the Business and Professions Code.
- 4. These requirements shall not be construed to limit or impair any contractual, administrative, or judicial remedies otherwise available to you or your Subcontractor in the event of a dispute involving late payment or nonpayment by you, deficient subcontract performance, or noncompliance by a Subcontractor.

K. CERTIFICATION.

- 1. The City accepts certifications of DBE, DVBE, MBE, SMBE, SWBE, or WBE by any of the following certifying agencies:
 - a) Current certification by the State of California Department of Transportation (CALTRANS) as DBE, SMBE, or SWBE.
 - b) Current MBE, WBE, or DVBE certification from the California Public Utilities Commission.
 - c) DVBE certification is received from the State of California's Department of General Services, Office of Small and Minority Business.
 - d) Current certification by the City of Los Angles as DBE, WBE, or MBE.
 - e) Subcontractors' valid proof of certification status (copies of MBE, WBE, DBE, or DVBE certifications) shall be submitted as required.

L. CONTRACT RECORDS AND REPORTS.

1. You shall maintain records of all subcontracts and invoices from your Subcontractors and Suppliers for work on this project. Records shall show

- name, telephone number including area code, and business address of each Subcontractor, Supplier, and joint venture partner, and the total amount actually paid to each firm. Project relevant records, regardless of tier, may be periodically reviewed by the City.
- 2. You shall retain all records, books, papers, and documents pertinent to the Contract for a period of not less than 5 years after Notice of Completion and allow access to said records by the City's authorized representatives.
- 3. You shall submit the following reports using the City's web-based contract compliance (Prism® portal):
 - a. **Monthly Payment.** You shall submit Monthly Payment Reporting by the 10th day of the subsequent month. Incomplete and/or delinquent reporting may cause payment delays, non-payment of invoices, or both.
- 4. The records maintained under item 1, described above, shall be consolidated into a Final Summary Report, certified as correct by an authorized representative of the Contractor. The Final Summary Report shall include all subcontracting activities and be sent to the EOCP Program Manager prior to Acceptance. Failure to comply may result in assessment of liquidated damages or withholding of retention. The City will review and verify 100% of subcontract participation reported in the Final Summary Report prior to approval and release of final retention to you. In the event your Subcontractors are owed money for completed Work, the City may authorize payment to subcontractor via a joint check from the withheld retention.

EQUAL OPPORTUNITY CONTRACTING PROGRAM (EOCP)

SECTION B - SLBE-ELBE SUBCONTRACTING REQUIREMENTS

THESE SPECIAL PROVISIONS SUPPLEMENT THE POLICIES AND REQUIREMENTS ESTABLISHED BY THE CITY OF SAN DIEGO EQUAL OPPORTUNITY CONTRACTING PROGRAM SPECIFIED IN THE CITY'S GENERAL EOCP REQUIREMENTS.

A. GENERAL.

- It is the City's policy to encourage greater availability, capacity development, and contract participation by SLBE and ELBE firms in City contracts. This policy is, in part, intended to further the City's compelling interest to stimulate economic development through the support and empowerment of the local community, ensure that it is neither an active nor passive participant in marketplace discrimination, and promote equal opportunity for all segments of the contracting community.
- 2. The City is committed to maximizing subcontracting opportunities for all qualified and available firms.
- 3. This policy applies to City-funded construction contracts. Bidders shall be fully informed of this policy as set forth in these specifications. Mandatory or voluntary subcontracting percentages, Bid Discounts, and restricted competitions are specified in the Contract Documents.
- 4. You shall make subcontracting opportunities available to a broad base of qualified Subcontractors and shall achieve the minimum SLBE-ELBE Subcontractor participation identified for your project.
- 5. Failure to subcontract the specified minimum (mandatory) percentages of the Bid to qualified available SLBE-ELBE Subcontractors will cause a Bid to be rejected as non-responsive unless the Bidder has demonstrated compliance with the affirmative steps as specified in the City's document titled "Small Local Business (SLBE) Program, INSTRUCTIONS FOR BIDDERS COMPLETING THE GOOD FAITH EFFORT SUBMITTAL" and has submitted documentation showing that all required positive efforts were made prior to the Bid submittal due date. The required Good Faith Effort (GFE) documentation shall be submitted to the Contract Specialist. The instructions for completing the good faith effort submittal can be found on the City's website:
 - https://www.sandiego.gov/sites/default/files/legacy/eoc/pdf/slbegfeinst.pdf
- 6. The current list of certified SLBE-ELBE firms and information for completing the GFE submittal can be found on the City's EOC Department website:
 - http://www.sandiego.gov/eoc/programs/slbe.shtml
- 7. These requirements may be waived, at the City's sole discretion, on projects deemed inappropriate for subcontracting participation.

B. DEFINITIONS.

- 1. The following definitions shall be used in conjunction with these specifications:
 - a) **Bid Discount** Additional inducements or enhancements in the bidding process that are designed to increase the chances for the selection of SLBE firms in competition with other firms.
 - b) **Commercially Useful Function** An SLBE-ELBE performs a commercially useful function when it is responsible for the execution of the Work and is carrying out its responsibilities by actually performing, managing, and supervising the Work involved. To perform a commercially useful function, the SLBE-ELBE shall also be responsible, with respect to materials and supplies used on the Contract, for negotiating price, determining quantity and quality, ordering the material, and installing (where applicable) and paying for the material itself.

To determine whether an SLBE-ELBE is performing a commercially useful function, an evaluation will be performed of the amount of Work subcontracted, normal industry practices, whether the amount the SLBE-ELBE firm is to be paid under the contract is commensurate with the Work it is actually performing and the SLBE-ELBE credit claimed for its performance of the Work, and other relevant factors. Specifically, an SLBE-ELBE does not perform a commercially useful function if its role is limited to that of an extra participant in a transaction, contract, or project through which funds are passed in order to obtain the appearance of meaningful and useful SLBE-ELBE participation, when in similar transactions in which SLBE-ELBE firms do not participate, there is no such role performed.

- c) **Good Faith Efforts (GFE)** Documentation of the Bidder's intent to comply with SLBE Program goals and procedures included in the City's SLBE Program, Instructions for Completing Good Faith Effort Submittal available from the City's EOCP website or the Contract Specialist.
- d) Independently Owned, Managed, and Operated Ownership of a SLBE-ELBE firm shall be direct, independent, and by individuals only. Business firms that are owned by other businesses or by the principals or owners of other businesses that cannot themselves qualify under the SLBE-ELBE eligibility requirements shall not be eligible to participate in the Program. Moreover, the day-to-day management of the SLBE-ELBE firm shall be direct and independent of the influence of any other businesses that cannot themselves qualify under the SLBE-ELBE eligibility requirements.
- e) **Joint Venture** An association of two or more persons or business entities that is formed for the single purpose of carrying out a single defined business enterprise for which purpose they combine their capital, efforts, skills, knowledge, or property. Joint ventures shall be established by written agreement to qualify for this program.

- f) Local Business Enterprise ("LBE") A firm having a Principal Place of Business and a Significant Employment Presence in San Diego County, California that has been in operation for 12 consecutive months and a valid business tax certificate. This definition is subsumed within the definition of Small Local Business Enterprise.
- g) **Minor Construction Program** A program developed for bidding exclusively among SLBE-ELBE Construction firms.
- h) **Principal Place of Business** A location wherein a firm maintains a physical office and through which it obtains no less than 50% of its overall customers or sales dollars.
- i) **Protégé** A firm that has been approved and is an active participant in the City's Mentor-Protégé Program and that has signed the required program participation agreement and has been assigned a mentor.
- j) **Significant Employee Presence** No less than 25% of a firm's total number of employees are domiciled in San Diego County.

C. SUBCONTRACTOR PARTICIPATION.

- 1. For the purpose of satisfying subcontracting participation requirements, only 1st tier SLBE-ELBE Subcontractors will be recognized as participants in the Contract according to the following criteria:
 - a) For credit to be allowed toward a respective participation level, all listed SLBE-ELBE firms shall have been certified by the Bid due date.
 - b) The Subcontractor shall perform a commercially useful function for credit to be allowed toward subcontractor participation levels. The Subcontractor shall be required by you to be responsible for the execution of a distinct element of the Work and shall carry out its responsibility by actually performing and supervising its own workforce.
 - c) If the Bidder is seeking the recognition of materials, supplies, or both towards achieving any mandatory subcontracting participation level, the Bidder shall indicate on Form AA40 Named Equipment/Material Supplier List with the Bid the following:
 - i. If the materials or supplies are obtained from a SLBE-ELBE manufacturer, the Bidder will receive 100% of the cost of the materials or supplies toward SLBE participation. For the purposes of counting SLBE-ELBE participation, a manufacturer is a firm that operates or maintains a factory or establishment that produces, on the premises, the materials, supplies, articles, or equipment required under the Contract and of the general character described by the specifications.
 - ii. If the materials or supplies are obtained from a SLBE-ELBE supplier, the Bidder will receive 60% of the cost of the

materials or supplies toward SLBE participation. For the purposes of counting SLBE-ELBE participation a Supplier is a firm that owns, operates, or maintains a store, warehouse, or other establishment in which the materials, supplies, articles or equipment of the general character described by the specifications and required under the Contract are bought, kept in stock, and regularly sold or leased to the public in the usual course of business. To be a supplier, the firm shall be an established, regular business that engages, as its principal business and under its own name, in the purchase and sale or lease of the products in question. A person may be a supplier in such bulk items as petroleum products, steel, cement, gravel, stone, or asphalt without owning, operating, or maintaining a place of business if the person both owns and operates distribution equipment for the products. Any supplementing of the suppliers' own distribution equipment shall be by a long-term lease agreement and shall not be on an ad hoc or contract-by-contract basis.

- iii. If the materials or supplies are obtained from a SLBE-ELBE, which is neither a manufacturer nor a supplier, the entire amount of fees or commissions charged for assistance in the procurement of the materials and supplies, fees or transportation charges for the delivery of materials or supplies required on a job site will be counted toward SLBE-ELBE participation, provided the fees are reasonable and not excessive as compared with fees customarily allowed for similar services. No portion of the cost of the materials and supplies themselves will be counted toward SLBE-ELBE participation.
- d) If the Bidder is seeking the recognition of SLBE-ELBE Trucking towards achieving any mandatory subcontracting participation level, the Bidder shall indicate it on Form AA35 List of Subcontractors with the Bid. The following factors will be evaluated in determining the credit to be allowed toward the respective participation level:
 - The SLBE-ELBE shall be responsible for the management and supervision of the entire trucking operation for which it is getting credit on a particular Contract and there shall not be a contrived arrangement for the purpose of counting SLBE-ELBE participation.
 - ii. The SLBE-ELBE shall itself own and operate at least 1 fully licensed, insured, and operational truck used on the Contract.

- iii. The SLBE-ELBE receives credit for the total value of the transportation services it provides on the Contract using trucks it owns, insures, and operates using drivers it employs.
- iv. The SLBE-ELBE may lease trucks from another SLBE-ELBE firm including an owner-operator who is certified as a SLBE-ELBE. The SLBE-ELBE who leases trucks from another SLBE-ELBE receives credit for the total value of the transportation services the lessee SLBE-ELBE provides on the contract.
- v. The SLBE-ELBE may also lease trucks from a non-SLBE-ELBE firm, including an owner-operator. The SLBE-ELBE who leases trucks from a non-SLBE-ELBE is entitled to credit for the total value of transportation services provided by non-SLBE-ELBE lessees not to exceed the value of transportation services provided by SLBE-ELBE owned trucks on the contract. Additional participation by non-SLBE-ELBE lessees receive credit only for the fee or commission it receives as a result of the lease arrangement.
- vi. A lease shall indicate that the SLBE-ELBE has exclusive use of and control over the truck. This does not preclude the leased truck from working for others during the term of the lease with the consent of the SLBE-ELBE so long as the lease gives the SLBE-ELBE absolute priority for use of the leased truck.

D. SLBE-ELBE SUBCONTRACTOR PARTICIPATION PERCENTAGES.

- 1. Contracts valued at \$1,000,000 and above will be considered Major Public Works Contracts and will include a mandatory Subcontractor participation requirement for SLBE-ELBE firms.
 - a) The Bidder shall achieve the mandatory Subcontractor participation requirement or demonstrate GFE.
 - b) The Bidders shall indicate the participation on Forms AA35 List of Subcontractors and AA40 Named Equipment/Material Supplier List as applicable regardless of the dollar value.
 - c) An SLBE-ELBE Bidder may count its own participation toward achieving the mandatory goal as long as the SLBE-ELBE Bidder performs 51% of the Contract Price.
- 2. Contracts Valued over \$500,000 and under \$1,000,000 will also be considered Major Public Works Contracts and will include the mandatory subcontractor participation requirements described above and the following:
 - a) 5% bid discount for SLBE-ELBE firms.
 - b) Non-certified Contractor will receive 5% bid discount if they achieve the specified mandatory Subcontracting participations.

- c) Bid discounts shall not apply if the award will result in a total contract cost of \$50,000 in excess of the apparent lowest Bid.
- d) In the event of a tie bid between a SLBE-ELBE Bidder and a non-SLBE-ELBE Bidder, the SLBE-ELBE Bidder will be awarded the Contract.
- e) In the event of a tie bid between a discounted Bid and a nondiscounted Bid, the discounted Bid will be awarded the Contract.
- 3. Contracts valued over \$250,000 up to \$500,000 will be considered Minor Public Works Contracts and will be awarded through a competitive Bid process open only to City certified SLBE-ELBE firms. If there are no bidders or no responsible bidders, the Contract will be made available to all Bidders and will be subject to requirements listed in items 1 and 2 for Major Public Works Contracts above.
- 4. Contracts valued at \$250,000 and below will also be considered Minor Public Works Contracts and will be awarded through a competitive bid process open only to City certified ELBEs unless there are less than 2 firms available at which it will be awarded through a competitive process open only to the City certified SLBE-ELBE firms. If there are no bidders or no responsible bidders, the Contract will be made available to all Bidders and subject to requirements listed in items 1 and 2 for Major Public Works Contracts above.

E. JOINT VENTURES.

- 1. The City may allow for Joint Venture bid discounts on some Contracts. Contracts that allow for Joint Venture bid discounts will be designated in Bid documents. A firm that is bidding or competing for City Contracts may partner with a certified SLBE or ELBE to compete for Contracts as a Joint Venture.
- 2. A Joint Venture shall be between two entities with the same discipline or license as required by the City. Joint ventures will receive bid discounts depending on the SLBE or ELBE percentage of participation. To be eligible for a discount, a Joint Venture Agreement shall be approved by the City at the time of Bid submittal. The maximum allowable discount shall be 5%. The parties shall agree to enter in the relationship for the life of the projects.
- 3. Joint Venture shall submit a Joint Venture Management Plan, a Joint Venture Agreement, or both at least 2 weeks prior to the Bid due date. Copies of the Joint Venture applications are available upon request to the Contract Specialist. Each agreement or management plan shall include the following:
 - a) Detailed explanation of the financial contribution for each partner.
 - b) List of personnel and equipment used by each partner.
 - c) Detailed breakdown of the responsibilities of each partner.
 - d) Explanation of how the profits and losses will be distributed.
 - e) Description of the bonding capacity of each partner.
 - f) Management or incentive fees available for any one of the partners (if any).

- 4. Each Joint Venture partner shall perform a Commercially Useful Function. An SLBE or ELBE that relies on the resources and personnel of a non-SLBE or ELBE firm will not be deemed to perform a Commercially Useful Function.
- 5. Each Joint Venture partner shall possess licenses appropriate for the discipline for which a proposal is being submitted. If a Joint Venture is bidding on a single trade project, at the time of bid submittal, each Joint Venture partner shall possess the requisite specialty license for that trade bid.
- 6. The SLBE or ELBE partner shall clearly define the portion of the Work to be performed. This Work shall be of the similar type of Work the SLBE or ELBE partner performs in the normal course of its business. The Joint Venture Participation Form shall specify the Bid items to be performed by each individual Joint Venture partner. Lump sum Joint Venture participation shall not be acceptable.
- 7. Responsibilities of the SLBE or ELBE Joint Venture Partner:
 - a) The SLBE or ELBE partner shall share in the control, management responsibilities, risks and profits of the Joint Venture in proportion with the level of participation in the project.
 - b) The SLBE or ELBE partner shall perform Work that is commensurate with its experience.
 - c) The SLBE or ELBE partner shall use its own employees and equipment to perform its portion of the Work.
 - d) The Joint Venture as a whole shall perform Bid items that equal or exceed 50% of the Contract Price, excluding the cost of manufactured items, in order to be eligible for a Joint Venture discount.

F. MAINTAINING PARTICIPATION LEVELS.

- Credit and preference points are earned based on the level of participation proposed prior to the award of the Contract. Once the Project begins you shall achieve and maintain the SLBE-ELBE participation levels for which credit and preference points were earned. You shall maintain the SLBE-ELBE percentages indicated at the Award of Contract and throughout the Contract Time.
- 2. If the City modifies the original Scope of Work, you shall make reasonable efforts to maintain the SLBE-ELBE participation for which creditor preference points were earned. If participation levels will be reduced, approval shall be received from the City prior to making changes.
- 3. You shall notify and obtain written approval from the City in advance of any reduction in subcontract scope, termination, or substitution for a designated SLBE-ELBE Subcontractor. Failure to do so shall constitute a material breach of the Contract.
- 4. If you fail to maintain the SLBE-ELBE participation listed at the time the Contract is awarded and have not received prior approval from the City, the

City may declare you in default and will be considered grounds for debarment under Chapter 2, Article 2, Division 8, of the San Diego Municipal Code.

G. SUBCONTRACTING EFFORTS REVIEW AND EVALUATION.

- Documentation of your subcontracting efforts will be reviewed by EOCP to verify that you made subcontracting opportunities available to a broad base of qualified Subcontractors, negotiated in good faith with interested Subcontractors, and did not reject any bid for unlawful discriminatory reasons. The EOCP review is based on the federal "Six Good Faith Efforts" model.
- 2. The GFEs are required methods to ensure that all ELBE and SLBE firms have had the opportunity to compete for the City's Public Works procurements. The Six Good Faith Efforts, also known as affirmative steps, attract and utilize ELBE and SLBE firms:
 - a) Ensure ELBE firms are made aware of contracting opportunities to the fullest extent practicable through outreach and recruitment activities.
 - b) Make information of forthcoming opportunities available to SLBE-ELBE firms and arrange time for Contracts and establish delivery schedules, where requirements permit, in a way that encourages and facilitates participation by SLBE-ELBE firms in the competitive process. This includes posting solicitations for Bids or proposals to SLBE-ELBE firms for a minimum of 10 Working Days before the Bid or Proposal due date.
 - c) Consider in the contracting process whether firms competing for large Contracts could subcontract with SLBE-ELBE firms.
 - d) Encourage contracting with a consortium of ELBE-SLBE firms when a Contract is too large for one of these firms to handle individually.
 - e) Use the services and assistance of the City's EOC Office and the SLBE-ELBE Directory.
 - f) If you award subcontracts, require your Subcontractors to take the steps listed above.

H. GOOD FAITH EFFORT DOCUMENTATION.

1. If the specified SLBE-ELBE Subcontractor participation percentages are not met, you shall submit information necessary to establish that adequate GFEs were taken to meet the Contract Subcontractor participation percentages. See the City's document titled "Small Local Business (SLBE) Program, INSTRUCTIONS FOR BIDDERS COMPLETING THE GOOD FAITH EFFORT SUBMITTAL." The instructions for completing the good faith effort submittal can be found on the City's website:

https://www.sandiego.gov/sites/default/files/legacy/eoc/pdf/slbegfeinst.pdf

I. SUBCONTRACTOR SUBSTITUTION.

1. Evidence of fraud or discrimination in the substitution of Subcontractors will result in sanctions including assessment of penalty fines, termination of Contract, or debarment. This section does not replace applicable California Public Contract Code.

J. FALSIFICATION OF SUB-AGREEMENT AND FRAUD.

1. Falsification or misrepresentation of a sub-agreement as to company name, Contract amount or actual Work performed by Subcontractors, or any falsification or fraud on the part your submission of documentation and forms pursuant to this program, will result in sanctions against you including assessment of penalty fines, termination of the Contract, or debarment. Instances of falsification or fraud which are indicative of an attempt by you to avoid subcontracting with certain categories of Subcontractors on the basis of race, gender, gender expression, gender identity, religion, national origin, ethnicity, sexual orientation, age, or disability shall be referred to the Equal Opportunity Contracting Program's Investigative Unit for possible violations of Article 2, Division 35 of the City Administrative Code, §§22.3501 et seq. (Nondiscrimination in Contracting).

K. RESOURCES.

1. The current list of certified SLBE-ELBE firms and information for completing the GFE submittal can be found on the City's EOC Department website:

http://www.sandiego.gov/eoc/programs/slbe.shtml

ATTACHMENT D

PREVAILING WAGE

ATTACHMENT D

PREVAILING WAGE

- 1. PREVAILING WAGE RATES: Pursuant to San Diego Municipal Code section 22.3019, construction, alteration, demolition, repair and maintenance work performed under this Contract is subject to State prevailing wage laws. For construction work performed under this Contract cumulatively exceeding \$25,000 and for alteration, demolition, repair and maintenance work performed under this Contract cumulatively exceeding \$15,000, the Contractor and its subcontractors shall comply with State prevailing wage laws including, but not limited to, the requirements listed below.
 - 1.1. Compliance with Prevailing Wage Requirements. Pursuant to sections 1720 through 1861 of the California Labor Code, the Contractor and its subcontractors shall ensure that all workers who perform work under this Contract are paid not less than the prevailing rate of per diem wages as determined by the Director of the California Department of Industrial Relations (DIR). This includes work performed during the design and preconstruction phases of construction including, but not limited to, inspection and land surveying work.
 - **1.1.1.** Copies of such prevailing rate of per diem wages are on file at the City and are available for inspection to any interested party on request. Copies of the prevailing rate of per diem wages also may be found at http://www.dir.ca.gov/OPRL/DPreWageDetermination.htm. Contractor and its subcontractors shall post a copy of the prevailing rate of per diem wages determination at each job site and shall make them available to any interested party upon request.
 - 1.1.2. The wage rates determined by the DIR refer to expiration dates. If the published wage rate does not refer to a predetermined wage rate to be paid after the expiration date, then the published rate of wage shall be in effect for the life of this Contract. If the published wage rate refers to a predetermined wage rate to become effective upon expiration of the published wage rate and the predetermined wage rate is on file with the DIR, such predetermined wage rate shall become effective on the date following the expiration date and shall apply to this Contract in the same manner as if it had been published in said publication. If the predetermined wage rate refers to one or more additional expiration dates with additional predetermined wage rates, which expiration dates occur during the life of this Contract, each successive predetermined wage rate shall apply to this Contract on the date following the expiration date of the previous wage rate. If the last of such predetermined wage rates expires during the life of this Contract, such wage rate shall apply to the balance of the Contract.

- **1.2. Penalties for Violations.** Contractor and its subcontractors shall comply with California Labor Code section 1775 in the event a worker is paid less than the prevailing wage rate for the work or craft in which the worker is employed. This shall be in addition to any other applicable penalties allowed under Labor Code sections 1720 1861.
- 1.3. Payroll Records. Contractor and its subcontractors shall comply with California Labor Code section 1776, which generally requires keeping accurate payroll records, verifying and certifying payroll records, and making them available for inspection. Contractor shall require its subcontractors to also comply with section 1776. Contractor and its subcontractors shall submit weekly certified payroll records online via the City's web-based Labor Compliance Program. Contractor is responsible for ensuring its subcontractors submit certified payroll records to the City.
 - **1.3.1.** Contractor and their subcontractors shall also furnish records specified in Labor Code section 1776 directly to the Labor Commissioner in the manner required by Labor Code section 1771.4.
- **1.4. Apprentices.** Contractor and its subcontractors shall comply with California Labor Code sections 1777.5, 1777.6 and 1777.7 concerning the employment and wages of apprentices. Contractor is held responsible for the compliance of their subcontractors with sections 1777.5, 1777.6 and 1777.7.
- 1.5. Working Hours. Contractor and their subcontractors shall comply with California Labor Code sections 1810 through 1815, including but not limited to: (i) restrict working hours on public works contracts to eight hours a day and forty hours a week, unless all hours worked in excess of 8 hours per day are compensated at not less than 1½ times the basic rate of pay; and (ii) specify penalties to be imposed on contractors and subcontractors of \$25 per worker per day for each day the worker works more than 8 hours per day and 40 hours per week in violation of California Labor Code sections1810 through 1815.
- **1.6. Required Provisions for Subcontracts.** Contractor shall include at a minimum a copy of the following provisions in any contract they enter into with a subcontractor: California Labor Code sections 1771, 1771.1, 1775, 1776, 1777.5, 1810, 1813, 1815, 1860 and 1861.
- 1.7. Labor Code Section 1861 Certification. Contractor in accordance with California Labor Code section 3700 is required to secure the payment of compensation of its employees and by signing this Contract, Contractor certifies that "I am aware of the provisions of Section 3700 of the California Labor Code which require every employer to be insured against liability for workers' compensation or to undertake self-insurance in accordance with the provisions of that code, and I will comply with such provisions before commencing the performance of the work of this Contract."

- **1.8. Labor Compliance Program**. The City has its own Labor Compliance Program authorized in August 2011 by the DIR. The City will withhold contract payments when payroll records are delinquent or deemed inadequate by the City or other governmental entity, or it has been established after an investigation by the City or other governmental entity that underpayment(s) have occurred. For questions or assistance, please contact the City of San Diego's Prevailing Wage Unit at 858-627-3200.
- 1.9. Contractor and Subcontractor Registration Requirements. This project is subject to compliance monitoring and enforcement by the DIR. A contractor or subcontractor shall not be qualified to bid on, be listed in a bid or proposal, subject to the requirements of section 4104 of the Public Contract Code, or engage in the performance of any contract for public work, unless currently registered and qualified to perform public work pursuant to Labor Code section 1725.5 It is not a violation of this section for an unregistered contractor to submit a bid that is authorized by Section 7029.1 of the Business and Professions code or by Section 10164 or 20103.5 of the Public Contract Code, provided the contractor is registered to perform public work pursuant to Section 1725.5 at the time the contract is awarded.
 - **1.9.1.** A Contractor's inadvertent error in listing a subcontractor who is not registered pursuant to Labor Code section 1725.5 in response to a solicitation shall not be grounds for filing a bid protest or grounds for considering the bid non-responsive provided that any of the following apply: (1) the subcontractor is registered prior to bid opening; (2) within twenty-four hours after the bid opening, the subcontractor is registered and has paid the penalty registration fee specified in Labor Code section 1725.5; or (3) the subcontractor is replaced by another registered subcontractor pursuant to Public Contract Code section 4107.
 - **1.9.2.** By submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the DIR in compliance with Labor Code sections 1771.1 and 1725.5, and Contractor shall provide proof of registration for themselves and all listed subcontractors to the City at the time of bid or proposal due date or upon request.
- **1.10. Stop Order.** For Contractor or its subcontractors engaging in the performance of any public work contract without having been registered in violation of Labor Code sections 1725.5 or 1771.1, the Labor Commissioner shall issue and serve a stop order prohibiting the use of the unregistered contractors or unregistered subcontractor(s) on ALL public works until the unregistered contractor or unregistered subcontractor(s) is registered. Failure to observe a stop order is a misdemeanor.
- **1.11. List of all Subcontractors.** The <u>Contractor shall provide the</u> list of subcontractors (regardless of tier), along with their DIR registration numbers, utilized on this <u>Contract prior to any work being performed</u>; and the Contractor shall provide <u>a complete</u> list

of all subcontractors with each invoice. Additionally, Contractor shall provide the City with a complete list of all subcontractors (regardless of tier) utilized on this contract within ten working days of the completion of the contract, along with their DIR registration numbers. The City shall withhold final payment to Construction Management Professional until at least thirty (30) days after this information is provided to the City.

- **1.12. Exemptions for Small Projects.** There are limited exemptions for installation, alteration, demolition, or repair work done on projects of \$25,000 or less. The Contractor shall still comply with Labor Code sections 1720 et. seq. The only recognized exemptions are listed below:
 - **1.12.1.** Registration. The Contractor will not be required to register with the DIR for small projects. (Labor Code section 1771.1
 - **1.12.2.** Certified Payroll Records. The records required in Labor Code section 1776 shall be required to be kept and submitted to the City of San Diego, but will not be required to be submitted online with the DIR directly. The Contractor will need to keep those records for at least three years following the completion of the Contract. (Labor Code section 1771.4).
 - **1.12.3.** List of all Subcontractors. The Contractor shall not be required to hire only registered subcontractors and is exempt from submitting the list of all subcontractors that is required in section 1.11 above. (Labor code section 1773.3).

ATTACHMENT E

SUPPLEMENTARY SPECIAL PROVISIONS

SUPPLEMENTARY SPECIAL PROVISIONS

The following Supplementary Special Provisions (SSP) modifies the following documents:

- 1. The **2021 Edition** of the Standard Specifications for Public Works Construction (The "GREENBOOK").
- 2. The **2021 Edition** of the City of San Diego Standard Specifications for Public Works Construction (The "WHITEBOOK"), including the following:
 - a) General Provisions (A) for all Construction Contracts.
 - b) General Provisions (B) for Design-Build and Multiple Award Construction Contracts.

SECTION 1 – GENERAL, TERMS, DEFINITIONS, ABBREVIATIONS, UNITS OF MEASURE, AND SYMBOLS

1-2 TERMS AND DEFINITIONS. To the "WHITEBOOK", item 55, "Normal Working Hours", ADD the following:

The Normal Working Hours are 7:00 AM to 5:00 PM.

SECTION 3 - CONTROL OF THE WORK

- **SELF-PERFORMANCE.** To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:
 - 1. You shall perform, with your own organization, Contract Work amounting to at least **20%** of the base Bid.
- **3-10 SURVEYING.** To the "GREENBOOK" and "WHITEBOOK", DELETE in its entirety and SUBSTITUTE with the following:
- 3-10 SURVEYING (DESIGN-BUILD).
- 3-10.1 General.
 - 1. You shall provide all required site layout not specified in this section.
 - 2. Unless surveying services are provided by the City, only the Design Firm, not the Contractor, shall be allowed to hire a Licensed Land Surveyor or a Registered Civil Engineer authorized to practice land surveying within the State of California to provide all surveying services needed for the design, and if requested by the City, also for the construction activities required for the completion of the Project. Surveying services include, but are not limited to: land, aerial, topographic and construction.
 - 3. If requested by the City, the Design Firm shall submit a letter to the City's Project Manager identifying the Licensed Land Surveyor or the Registered Civil Engineer authorized to practice land surveying within the State of California

- that will be performing the design and/or construction phase survey services for the Project.
- 4. Where applicable, notify the City in writing at least 2 Working Days prior to requesting survey services to be provided by the City.
- 5. The Design Firm is responsible for performing and meeting the accuracy of surveying standards adequate for design and construction through the Design Firm's Licensed Land Surveyor or Registered Civil Engineer authorized to practice land surveying within the State of California.
- 6. All Survey Services deliverables shall be submitted per the City's CADD Standards and pertinent Public Works Department Engineering Deliverable specifications.

https://www.sandiego.gov/ecp/edocref/drawings

- 7. All Survey Services and deliverables which reveal non-compliance with the requirements of the Construction Documents and standards shall be corrected as deemed necessary by the City at the Design-Builder's expense.
- 8. Where Survey Services are provided by the City, all construction survey stakes, control points, and other survey related marks shall be preserved for the duration of the Project. If any construction survey stakes, control points, or other survey related marks are lost or disturbed and need to be replaced, such replacement shall be performed at the Design-Builder's expense.
- 9. The City's Land Survey Section (LSS) shall be notified a minimum of 2 Working Days (large projects may require more) before any ground is to be disturbed within the City of San Diego (concrete, asphalt, or dirt). The LSS may need to inspect the site and provide monumentation information.

3-10.2 Monument Perpetuation.

- Monument Perpetuation, including mark-outs, will be performed by the City Public Works Engineering Support & Technical Services Division's (ES&TS), Land Survey Section (LSS), unless otherwise noted. You are responsible for requesting the coordination of these services.
- 2. If at any time a monument will be destroyed or covered, such monument shall be perpetuated in accordance with state law. Inform the LSS, via project Resident Engineer, if any monument will be destroyed or covered during any construction activity.

3-10.3 Line and Grade.

- 1. The Work shall conform to the lines, elevations, and grades shown on the Plans. Three consecutive points set on the same slope shall be used together so that any variation from a straight grade can be detected. Any such variation shall be reported to the City's PM. In the absence of such report, the Surveyor shall be responsible for any error in the grade of the Work.
- 2. Grades for underground conduits will be set at the surface of the ground. The Design-Builder shall transfer them to the bottom of the trench.

3-10.4 Topographic and Monument Survey – Preliminary Design.

- Topographic field survey shall include all existing ground surface topography, fencing, hardscape, utilities, roadway surface, and curb returns within the delineated mapping limit. Monument survey shall include the sufficient collection of existing record survey monuments to perform right-of-way (ROW) analysis along within subject mapping limits.
- 2. Unless otherwise specified, the Land Surveyor shall adhere to Section 3 of the Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys (Effective February 23, 2016).

https://www.nsps.us.com/page/ALTANSPSStandards

- 3. Horizontal Control shall be based on the CCS83 Zone 6, 1991.35 epoch, U.S. Survey Feet per Record of Survey Map No. 14492 (ROS 14492). It is required to tie into a first order monument per ROS 14492 unless a first order monument no longer exists within a three mile radius. Horizontal control measurements shall be collected in conformance with the local standard of practice.
- 4. Vertical Control shall be based on NGVD29 per benchmarks in the City of San Diego Bench Book. Non 1970 adjusted and 1970 adjusted benchmarks listed with an asterisk (*) in the City Benchmark book are not to be used together for Vertical Control common adjustment sets are to be used.
- 5. All topographic field survey data shall be collected using conventional survey methods utilizing total station instrumentation.
- 6. Deliverables.
 - a) Horizontal and Vertical Control.
 - i. Completed Calibration sheet as provided indicating the monuments used to establish the Basis of Bearings and Vertical Benchmark held to control this survey.
 - b) Field Data.
 - Data collected as points and break lines to define a proper DTM if requested outside of aerial mapping.
 - ii. Includes utilities collected on surface as required.
 - iii. Includes Horizontal control points from ROS 14492 used to define the Basis of Bearings and Vertical control Benchmark(s) to establish elevation.
 - iv. Includes record monument points.
 - v. Data collector project files.
 - vi. Raw (unedited) data file.
 - vii. Project file.
 - viii. Point comma delimited text file formatted.

- c) Topography.
 - i. Create and deliver a complete ASCII coordinate list (.txt/.doc etc.) of all field collected survey points.
 - The contours produced from the surface digital terrain model (dtm) shall meet or exceed ASPRS 90 standards where 68% (1σ) of the contours tested fall within 1/3 contour interval. Any point tested that is more than 3σ out shall be regarded as a blunder. These standards closely parallel the familiar National Map Accuracy Standards.

d) Records Research.

- i. All public or private records acquired to determine the City's ROW in the project area delivered in digital or hardcopy format with any markups and City Records as acquired.
 - City records may include but are not limited to GIS scope plots, sewer and water sheets, loose leaf survey notes, Tie Point sheets, dedication or vacation drawings, easement drawings, benchmark list, and etc.
 - After initial search of City records by the Surveyor, they may request City assistance to search for hard to find records.
- e) Survey Monument Measurements.
 - i. All found monuments located within, or near, the survey limits shall be searched and measured. Sufficient additional monuments to control all boundaries extending from the survey limits shall be tied (i.e. block corners, Points of Curve etc.) to the next available survey monument past the survey limits.
 - All Monuments found shall be described with details as to what was found along with identifying number.

3-10.5 Monument Search, Field Boundary Survey and Boundary Analysis – Right-of-Way (ROW) Mapping.

- 1. The monument survey, for each designated site, shall be of sufficient coverage and quality for a Right-of-Way boundary analysis performed and provided in conformance with City CADD standards.
- 2. Surveyor shall deliver to the City all requested survey information and CADD data, as specified below, upon completion of the Monument Survey and Boundary Analysis.
- 3. Unless otherwise specified, the Land Surveyor shall adhere to Section 3 of the Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys (Effective February 23, 2016).

https://www.nsps.us.com/page/ALTANSPSStandards

- 4. Field monument survey to be performed and provided in conformance with City CADD standards.
- 5. Field Measurements shall be collected in conformance the local standard of practice.
- 6. Horizontal Control shall be based on the CCS83 Zone 6, 1991.35 epoch, U.S. Survey Feet units, per City of San Diego Record of Survey Map No. 14492 (ROS 14492). All Project survey control shall be based upon field-tied measurements to a Horizontal First Order monument as shown on ROS 14492. Where existing First Order monument cannot be recovered or located within a 3-mile radial distance from the project site a Horizontal Second-Order Monument may be used as Project survey basis. The Project vertical control datum shall be based on NGVD29 per benchmarks identified in the City of San Diego Vertical Control Bench Book (Bench Book). All Project benchmarks shall be selected from a common Bench Book source group:
 - a) Benchmarks with elevations updated per U.S.C.G.S adjustment of 1970, identified with an asterisk (*).
 - b) Benchmarks not adjusted per the 1970 adjusted values (non-asterisked identifiers).

7. Deliverables.

- a) Horizontal and Vertical Control.
 - Completed Calibration sheet indicating the monuments used to establish the Basis of Bearings and Vertical Benchmark held to control this survey.
- b) Field Data.
 - Complete, Correct CADD file in conformance with City CADD Standards and industry standards.
 - Includes Horizontal control points from ROS 14492 used to define the Basis of Bearings and Vertical control Benchmark(s) to establish elevation.
 - Includes Monument points covering the area of work.
 - ii. Data collector project files.
 - Raw (unedited) data file.
 - Project file.
 - Point comma delimited text file.
- c) Records Research.
 - If requested, all public or private records acquired to determine the City's ROW in the project area delivered in digital or hardcopy format with any markups and City Records as acquired.

ii. City records may include but are not limited to GIS scope plots, sewer and water sheets, loose leaf survey notes, Tie Point sheets, dedication or vacation drawings, easement drawings, benchmark list, and etc.

d) Boundary Ties

- i. All monuments within the survey limits shall be searched and tied if found. Sufficient additional monuments to control all boundaries extending from the survey limits shall be tied (i.e. Block Corners, Points of Curve etc.) to the next available survey monument past the survey limits.
 - All Monuments found shall be described details as to what was found along with identifying number.

3-10.6 Field Monument Survey and Topographic Utility Survey.

- 1. The right-of-way monumentation survey data shall be provided to the City.
- 2. Surveyor shall perform a right-of-way monument survey and existing utility survey (locating feature centers). Surveyor shall also collect ground surface topography over any aerial obscured areas.
- 3. Unless otherwise specified, the Land Surveyor shall adhere to Section 3 of the Minimum Standard Detail Requirements for ALTA/NSPS Land Title Surveys (Effective February 23, 2016).

https://www.nsps.us.com/page/ALTANSPSStandards

- 4. Field Measurements shall be collected in conformance with the local standard of practice.
- 5. Project Horizontal and Vertical Control.
 - a) The Horizontal and Vertical Control for this project shall be based on the same datum, basis of bearing, calibration and benchmark as used for the Aerial Survey.
 - b) Horizontal Control Shall be based on the CCS83 Zone 6, 1991.35 epoch, U.S. Survey Feet per ROS 14492. It is required to tie into a first order monument per ROS 14492 unless a first order monument no longer exists within a three mile radius.
 - c) Vertical Control shall be based on NGVD29 per benchmarks in the City of San Diego Bench Book. Non 1970 adjusted and 1970 adjusted benchmarks listed with an asterisk (*) in the City Benchmark book are not to be used together for Vertical Control common adjustment sets are to be used.
 - d) If adjacent City projects have been found and are included in the research packages, measurements to a minimum of 3 common control or ROW points shall be made for evaluation and consistency between projects. These projects can be used for establishing common horizontal or vertical control, joining or adding to existing

data, and/or as an inventory of survey monuments for search purposes.

6. Deliverables.

- a) Horizontal and Vertical Control.
 - Completed Calibration sheet indicating the monuments used to establish the Basis of Bearings and Vertical Benchmark held to control this survey. The horizontal and vertical control shall be set by the Surveyor that's issued the first Notice to Proceed.

b) Field Data.

- Data collected as points and break lines to define a proper
 DTM beyond the identified mapping limits if requested.
- ii. Include utilities collected on surface as required.
- iii. Include horizontal control points from ROS 14492 to define the Basis of Bearings and Vertical control Benchmark(s) to establish elevation.
- iv. Include Monument points covering the area of work.
- v. Data collector project files.
 - Raw (unedited) data file.
 - Project file.
 - Point data text file in "comma delimited format".

vi. CADD File.

- A digital design file displaying all field work, existing right-of-way monuments, and utility feature data per City CADD standards. The design file shall be complete, correct, and free of duplicate elements.
- The following data shall be included in the electronic mapping file: Name of Design/Engineering Firm and/or Surveyor doing the project, Company Logo (if available), Name of project, Work order number, Date & Scale.
- Include right-of-way monument elements.
- Use appropriate levels and attributes for all elements to meet City of San Diego CADD Standards.

c) Topography

- i. Create and deliver a complete ASCII coordinate list (.txt/.doc etc.) as a result of the geometry report of the final .ALG file.
- ii. Use appropriate levels and attributes for all elements to meet City of San Diego CADD Standards.

- d) Records Research.
 - i. If requested, all public or private records acquired to assist with right-of-way monument collection.
 - ii. City records may include but are not limited to GIS scope plots, sewer and water sheets, loose leaf survey notes, Tie Point sheets, dedication or vacation drawings, easement drawings, benchmark list, and etc.
 - iii. After initial search of City records by the Surveyor, they may request City assistance to search for hard to find records.
- e) Right-of-Way Monument Survey Locations
 - i. All monuments within the survey limits shall be searched and located if found. Sufficient additional monuments to control all boundaries extending from the survey limits shall be located to facilitate LSS ROW Mapping (i.e. block corners, points of curve, and etc.).
 - All found survey monuments shall describe the character and identifying reference marks.
 - City survey notes and City drawings can be provided, as applicable.
- f) The appropriate City of San Diego cell library (V8 City existing.cel), font resource file (V8 City font.rsc), color table (V8 City color.tbl), line style (V8 City Line style.rsc), level scheme, and seed file parameters are to be used for placement of all elements in the design files, with strict adherence to "Working Units" and seed file "Global Origin". Base map level schemes are attached. A CD containing the most current version of the above seed files, cell libraries and font resource files will be provided, if needed, upon request.

3-10.7 Construction Survey/Staking.

- Construction staking surveying shall be performed with the standards customarily adhered to by an experienced and competent land surveying firm using the degree of care and skill ordinarily exercised by reputable professionals practicing in the same field of service in the State of California. Where approval by the City is required, it is understood to be general approval only and shall not relieve the Design Firm of their responsibility to comply with all applicable laws, codes, and good consulting practices.
- 2. Field Measurements shall comply with the local standards of practice. All construction staking with a gradient of less than 1.5% shall be performed by a total station survey instrument. Gradients less than 0.2% shall require a level run prior to construction, and all said services shall be performed by the Surveyor.

- 3. The following are minimum requirement guidelines for various types of staking:
 - a) Limits of work 50-foot maximum interval.
 - b) Limits of Demolition 50-foot maximum interval.
 - c) Rough grade stakes 50-foot maximum interval.
 - d) Finish grade stakes 50-foot maximum interval.
 - e) Slope staking at 50-foot maximum interval.
 - f) Contour staking at 50-foot maximum interval.
 - g) Curb stakes with offset to face of curb, and grade to top of curb with 50-foot maximum interval.
 - h) Storm drain at 50-foot maximum interval where grade exceeds 1%.
 - i) Sewer lines at 50-foot maximum interval where grade exceeds 1%.
 - j) Water lines at 50-foot' maximum interval offset to near curb face (no grades minimum cover).
 - k) Dry utilities at 50-foot maximum interval where grade exceeds 1%.
 - Construction staking involving horizontal and vertical curves shall be staked at 25-foot maximum intervals, and further densification for deltas on applicable curb returns and pipe joints.
 - m) Storm Drain inlet stakes shall be on face of curb produced, and on string line grade.
 - n) Walls staked at footing breaks, with station interval of 25-foot maximum intervals.
 - o) Buildings offsets to outside face of wall.
 - p) Bridge abutments and bents on opposing sides.

SECTION 4 - CONTROL OF MATERIALS

- **4-3.6 Preapproved Materials.** To the "WHITEBOOK", ADD the following:
 - 3. You shall submit in writing a list of all products to be incorporated in the Work that are on the AML.
- **4-6 TRADE NAMES.** To the "WHITEBOOK", ADD the following:
 - 11. You shall submit your list of proposed substitutions for an "equal" item **no** later than 5 Working Days after the determination of the Notice of Intent to Award and on the City's Product Submittal Form available at:

https://www.sandiego.gov/ecp/edocref/

SECTION 5 - LEGAL RELATIONS AND RESPONSIBILITIES

5-4 INSURANCE. To the "GREENBOOK", DELETE in its entirety and SUBSTITUTE with the following:

5-4 INSURANCE.

1. The insurance provisions herein shall not be construed to limit your indemnity and defense duties set forth in the Contract.

5-4.1 Policies and Procedures.

- 1. You shall procure the insurance described below, at your sole cost and expense, to provide coverage against claims for loss including injuries to persons or damage to property, which may arise out of or in connection with the performance of the Work by you, your agents, representatives, officers, employees or Subcontractors.
- 2. Insurance coverage for property damage resulting from your operations is on a replacement cost valuation. The market value will not be accepted.
- 3. You shall maintain this insurance as required by this Contract and at all times thereafter when you are correcting, removing, or replacing Work in accordance with this Contract. Your duties under the Contract, including your indemnity obligations, are not limited to the insurance coverage required by this Contract.
- 4. If you maintain broader coverage or higher limits than the minimums shown below, City requires and shall be entitled to the broader coverage or the higher limits maintained by you. Any available insurance proceeds in excess of the specified minimum limits of insurance and coverage shall be available to City.
- 5. Your payment for insurance shall be included in the Contract Price you bid. You are not entitled to any additional payment from the City to cover your insurance, unless the City specifically agrees to payment in writing. Do not begin any Work under this Contract or allow any Subcontractors to begin work, until you have provided, and the City has approved, all required insurance.
- 6. Policies of insurance shall provide that the City is entitled to 30 days advance written notice of cancellation or non-renewal of the policy or 10 days advance written notice for cancellation due to non-payment of premium. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage and to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

5-4.2 Types of Insurance.

5-4.2.1 General Liability Insurance.

1. Commercial General Liability Insurance shall be written on the current version of the ISO Occurrence form CG 00 01 07 98 or an equivalent form providing coverage at least as broad.

- 2. The policy shall cover liability arising from premises and operations, XCU (explosions, underground, and collapse), independent contractors, products/completed operations, personal injury and advertising injury, bodily injury, property damage, and liability assumed under an insured's contract (including the tort liability of another assumed in a business contract).
- 3. There shall be no endorsement or modification limiting the scope of coverage for either "insured vs. insured" claims or contractual liability. You shall maintain the same or equivalent insurance for at least 10 years following completion of the Work.
- 4. All costs of defense shall be outside the policy limits. Policy coverage shall be in liability limits of not less than the following:

General Annual Aggregate Limit	Limits of Liability
Other than Products/Completed Operations	\$10,000,000
Products/Completed Operations Aggregate Limit	\$10,000,000
Personal Injury Limit	\$5,000,000
Each Occurrence	\$5,000,000

5-4.2.2 Commercial Automobile Liability Insurance.

- 1. You shall provide a policy or policies of Commercial Automobile Liability Insurance written on the current version of the ISO form CA 00 01 12 90 or later version or equivalent form providing coverage at least as broad in the amount of \$1,000,000 combined single limit per accident, covering bodily injury and property damage for owned, non-owned, and hired automobiles ("Any Auto").
- 2. All costs of defense shall be outside the limits of the policy.

5-4.2.3 Workers' Compensation Insurance and Employers Liability Insurance.

- In accordance with the provisions of California Labor Code section 3700, you shall
 provide, at your expense, Workers' Compensation Insurance and Employers
 Liability Insurance to protect you against all claims under applicable state workers'
 compensation laws. The City, its elected officials, and employees will not be
 responsible for any claims in law or equity occasioned by your failure to comply
 with this requirement.
- 2. Statutory Limits shall be provided for Workers' Compensation Insurance as required by the state of California, and Employer's Liability Insurance with limits of no less than \$1,000,000 per accident for bodily injury or disease.
- 3. By signing and returning the Contract, you certify that you are aware of the provisions of California's Workers' Compensation laws, including Labor Code section 3700, which requires every employer to be insured against liability for workers' compensation or to undertake self-insurance, and that you will comply with these provisions before commencing the Work..

5-4.2.4 Contractors Pollution Liability Insurance.

- 1. You shall procure and maintain at your expense or require your Subcontractor, as described below, to procure and maintain Contractors Pollution Liability Insurance applicable to the Work being performed, with a limit no less than \$2,000,000 per claim or occurrence and \$4,000,000 aggregate per policy period of one year.
- 2. All costs of defense shall be outside the limits of the policy.
- 3. You shall obtain written approval from the City for any insurance provided by your Subcontractor instead of you.
- 4. For approval of a substitution of your Subcontractor's insurance, you shall certify that all activities for which the Contractors Pollution Liability Insurance will provide coverage will be performed exclusively by the Subcontractor providing the insurance. The deductible shall not exceed \$25,000 per claim unless the City has provided prior, written approval.
- 5. Occurrence based policies shall be procured before the Work commences. Claims Made policies shall be procured before the Work commences, shall be maintained for the Contract Time, and shall include a 12-month extended Claims Discovery Period applicable to this contract or the existing policy or policies that shall continue to be maintained for 12 months after the completion of the Work without advancing the retroactive date.

5-4.2.5 Contractors Hazardous Transporters Pollution Liability Insurance.

- 1. You shall procure and maintain at your expense or require your Subcontractor, as described below, to procure and maintain Contractors Hazardous Transporters Pollution Liability Insurance, including contractual liability coverage to cover liability arising out of transportation of hazardous or toxic, materials, substances, or any other pollutants by you or any Subcontractor in an amount no less than \$2,000,000 limit per occurrence and \$4,000,000 aggregate per policy period of one year.
- 2. All costs of defense shall be outside the limits of the policy.
- 3. You shall obtain written approval from the City from any insurance provided by a Subcontractor instead of you..
- 4. To obtain City approval of a Subcontractor's insurance coverage in lieu of the Contractor's insurance, the Contractor shall certify that all activities under the Contractor's Hazardous Transporters Pollution Liability Insurance will be performed exclusively by the Subcontractor providing the insurance. The deductible shall not exceed \$25,000 per claim without prior approval of the City
- 5. Occurrence based policies shall be procured before the Work commences. Claims Made policies shall be procured before the Work commences, shall be maintained for the duration of this contract, and shall include a 12-month extended Claims Discovery Period applicable to this Contract or the existing policy or policies that shall continue to be maintained for 12 months after the

completion of the Work under this Contract without advancing the retroactive date.

5-4.2.8 Architects and Engineers Professional Insurance (Errors and Omissions Insurance).

- 1. For Contracts with required engineering services, including <u>Design-Build</u> and preparation of engineered Traffic Control Plans (TCP) by you, you shall keep or require all of your employees and Subcontractors, who provide professional engineering services under Contract, to provide to the City proof of Professional Liability coverage with a limit of no less than \$3,000,000 per claim and \$3,000,000 aggregate per policy period of one year.
- 2. You shall ensure the following:
 - a) The policy retroactive date is on or before the date of commencement of the Project.
 - b) The policy will be maintained in force for a period of three years after completion of the Project or termination of the Contract, whichever occurs last. You agree that, for the time period specified above, there will be no changes or endorsements to the policy that affect the specified coverage.
- 3. If professional engineering services are to be provided solely by the Subcontractor, you shall:
 - a) Certify this to the City in writing, and
 - b) Agree in writing to require the Subcontractor to procure Professional Liability coverage in accordance with the requirements set forth here.
- **Fating Requirements.** Except for the State Compensation Insurance Fund, all insurance required by this Contract shall be carried only by responsible insurance companies with a rating of, or equivalent to, at least "A-, VI" by A.M. Best Company, that are authorized by the California Insurance Commissioner to do business in the state of California, and that have been approved by the City.
- **5-4.3.1 Non-Admitted Carriers.** The City will accept insurance provided by non-admitted, "surplus lines" carriers only if the carrier is authorized to do business in the state of California and is included on the List of Approved Surplus Lines Insurers (LASLI list).

All policies of insurance carried by non-admitted carriers shall be subject to all of the requirements for policies of insurance provided by admitted carriers described in this Contract.

5-4.4 Evidence of Insurance. You shall furnish the City with original Certificates of Insurance, including all required amendatory endorsements (or copies of the applicable policy language effecting coverage required by this clause), prior to your commencement of Work under this Contract. In addition, The City reserves the right to require complete, certified copies of all required insurance policies, including endorsements, required by these specifications, at any time.

- 5-4.5 Policy Endorsements.
- 5-4.5.1 Commercial General Liability Insurance.
- **Additional Insured.** To the fullest extent permitted by law and consistent with the limiting provisions set forth at California Civil Code section 2782, California Insurance Code section 11580.04, and any applicable successor statutes limiting indemnification of public agencies that bind the City, the policy or policies shall be endorsed to include as an Additional Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
 - i. Ongoing operations performed by you or on your behalf,
 - ii. your products,
 - iii. your work, e.g., your completed operations performed by you or on your behalf, or
 - iv. premises owned, leased, controlled, or used by you.
- **5-4.5.1.2 Primary and Non-Contributory Coverage.** The policy shall be endorsed to provide that the coverage with respect to operations, including the completed operations, if appropriate, of the Named Insured is primary to any insurance or self-insurance of the City and its elected officials, officers, employees, agents and representatives. Further, it shall provide that any insurance maintained by the City and its elected officials, officers, employees, agents and representatives shall be in excess of your insurance and shall not contribute to it.
- **5-4.5.1.3 Project General Aggregate Limit.** The policy or policies shall be endorsed to provide a Designated Construction Project General Aggregate Limit that will apply only to the Work. Only claims payments which arise from the Work shall reduce the Designated Construction Project General Aggregate Limit. The Designated Construction Project General Aggregate Limit shall be in addition to the aggregate limit provided for the products-completed operations hazard.
- 5-4.5.2 Workers' Compensation Insurance and Employers Liability Insurance.
- **5-4.5.2.1 Waiver of Subrogation.** The policy or policies shall be endorsed to provide that the insurer will waive all rights of subrogation against the City and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from Work performed by the Named Insured for the City.
- 5-4.5.3 Contractors Pollution Liability Insurance Endorsements.
- **Additional Insured.** To the fullest extent permitted by law and consistent with the limiting provisions set forth at California Civil Code section 2782, California Insurance Code section 11580.04, and any applicable successor statutes limiting indemnification of public agencies that bind the City, the policy or policies shall be endorsed to include as an Additional Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
 - a. Ongoing operations performed by you or on your behalf,

- b. your products,
- c. your work, e.g., your completed operations performed by you or on your behalf, or
- d. premises owned, leased, controlled, or used by you.
- **5-4.5.3.2 Severability of Interest.** For Contractors Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability and shall provide cross-liability coverage.
- 5-4.5.4 Contractors Hazardous Transporters Pollution Liability Insurance Endorsements.
- **Additional Insured.** To the fullest extent permitted by law and consistent with the limiting provisions set forth at California Civil Code section 2782, California Insurance Code section 11580.04, and any applicable successor statutes limiting indemnification of public agencies that bind the City, the policy or policies shall be endorsed to include as an Additional Insured the City and its respective elected officials, officers, employees, agents, and representatives, with respect to liability arising out of:
 - a. Ongoing operations performed by you or on your behalf,
 - b. your products,
 - c. your work, e.g., your completed operations performed by you or on your behalf, or
 - d. premises owned, leased, controlled, or used by you.
- **5-4.5.4.2 Severability of Interest.** For Contractors Hazardous Transporters Pollution Liability Insurance, the policy or policies shall provide that your insurance shall apply separately to each insured against whom claim is made or suit is brought, except with respect to the limits of the insurer's liability, and shall provide cross-liability coverage.
- 5-4.6 Deductibles and Self-Insured Retentions. You shall disclose deductibles and self-insured retentions to the City at the time the evidence of insurance is provided. The City may require you to purchase coverage with a lower retention or provide proof of ability to pay losses and related investigations, claim administration, and defense expenses within the retention. The policy language shall provide, or be endorsed to provide, that the self-insured retention may be satisfied by either the named insured or City.
- **S-4.7 Reservation of Rights.** The City reserves the right, from time to time, to review your insurance coverage, limits, deductibles, and self-insured retentions to determine if they are acceptable to the City. The City will reimburse you, without overhead, profit, or any other markup, for the cost of additional premium for any coverage requested by the Engineer, but not required by this Contract.
- **Notice of Changes to Insurance.** You shall notify the City, in writing, 30 days prior to any material change to the policies of insurance provided under this Contract. This written notice is in addition to the requirements of paragraph 8 of Section 5-4.1. Policies of insurance shall provide that the City is entitled to 30 days advance written notice of cancellation or non-renewal of the policy or 10 days advance written notice

for cancellation due to non-payment of premium. Maintenance of specified insurance coverage is a material element of the Contract. Your failure to maintain or renew coverage and to provide evidence of renewal during the term of the Contract may be treated by the City as a material breach of the Contract.

5-4.9 Excess Insurance. Policies providing excess coverage shall follow the form of the primary policy or policies, including, all endorsements.

5-4.11 Workers' Compensation Insurance and Employers Liability Insurance.

- 1. In accordance with the provisions of §3700 of the California Labor Code, you shall provide at your expense Workers' Compensation Insurance and Employers Liability Insurance to protect you against all claims under applicable state workers compensation laws. The City, its elected officials, and employees will not be responsible for any claims in law or equity occasioned by your failure to comply with the requirements of this section.
- 2. Limits for this insurance shall be not less than the following:

Workers' Compensation	Statutory Employers Liability
Bodily Injury by Accident	\$1,000,000 each accident
Bodily Injury by Disease	\$1,000,000 each employee
Bodily Injury by Disease	\$1,000,000 policy limit

- 3. By signing and returning the Contract you certify that you are aware of the provisions of §3700 of the Labor Code which requires every employer to be insured against liability for worker's compensation or to undertake self-insurance in accordance with the provisions of that code and you shall comply with such provisions before commencing the Work as required by §1861 of the California Labor Code.
- **5-4.11.1 Waiver of Subrogation.** The policy or policies shall be endorsed to provide that the insurer will waive all rights of subrogation against the City and its respective elected officials, officers, employees, agents, and representatives for losses paid under the terms of the policy or policies and which arise from Work performed by the Named Insured for the City.

SECTION 6 - PROSECUTION AND PROGRESS OF THE WORK

- **6-1.1 Construction Schedule.** To the "WHITEBOOK", ADD the following:
 - 3. Refer to the Sample City Invoice materials in **Appendix D Sample City Invoice with Cash Flow Forecast** and use the format shown.

ADD:

6-6.1.1 Environmental Document.

 The City of San Diego has prepared a CEQA Guidelines Section 15162 Consistency Evaluation for Organics Processing Facility Project, as referenced in the Contract Appendix. You shall comply with all requirements

- of the **CEQA Guidelines Section 15162 Consistency Evaluation** as set forth in **Appendix A and the incorporated Environmental Impact Report.**
- 2. Compliance with the City's environmental document shall be included in the Contract Price, unless separate bid items have been provided.

SECTION 7 - MEASUREMENT AND PAYMENT

7-3.1 General. To the "WHITEBOOK", ADD the following:

- 3. The Lump Sum Bid item for "Engineering and Design Services" shall include but is not limited to technical investigations, reports (including As-Built Drawings, Transition Plan, Equipment Service Manuals, QA/QC Final Report, Final Construction Report), planning, project management, design plans, testing, training (including applicable manuals and manufacturer's info), and commissioning (including third party verification) as needed to meet the requirements described in Attachment A Bridging Document.
- 4. The Lump Sum Bid item for "Construction" shall include but is not limited to labor, equipment, and materials for field construction, mobilization, site preparation, earthwork, foundations, buildings, paving, landfill gas system modifications, drainage infrastructure, composting system installation, existing facility transition/relocation, and construction management as needed to meet the requirements described in Attachment A Bridging Document.
- 5. The Lump Sum Bid item for **"Equipment"** shall include but is not limited to conveyors, grinders, or other heavy agricultural or industrial equipment as needed to meet the requirements described in Attachment A Bridging Document.
- 6. The Lump Sum Bid item for "Engineering and Design Services" of Additive Alternate A- Maximum Tonnage Project shall include but is not limited to technical investigations, reports (including As-Built Drawings, Transition Plan, Equipment Service Manuals, QA/QC Final Report, Final Construction Report), planning, project management, design plans, testing, training (including applicable manuals and manufacturer's info), and commissioning (including third party verification) as needed to meet the requirements associated with the Maximum Tonnage project as described in Attachment A Bridging Document.
- 7. The Lump Sum Bid item for "Construction" of Additive Alternate A-Maximum Tonnage Project shall include but is not limited to labor, equipment, and materials for field construction, site preparation, earthwork, foundations, paving, landfill gas system modifications, drainage infrastructure, composting system installation, and construction management as needed to meet the requirements associated with the Maximum Tonnage project described in Attachment A Bridging Document.
- 8. The Lump Sum Bid item for **"Equipment"** of Additive Alternate A- Maximum Tonnage Project shall include but is not limited to conveyors, grinders, or

other heavy agricultural or industrial equipment as needed to meet the requirements associated with the Maximum Tonnage Project described in Attachment A – Bridging Document.

- **7-3.11 Compensation Adjustments for Price Index Fluctuations.** To the "WHITEBOOK" ADD the following:
 - 5. This Contract is not subject to the provisions of The "WHITEBOOK" for Compensation Adjustments for Price Index Fluctuations for paving asphalt.

SECTION 209 - PRESSURE PIPE

- **209-1.1.1 General.** To the "WHITEBOOK", ADD the following:
 - 2. PVC products, specifically type C900 and C905, as manufactured or distributed by J-M Manufacturing Company or JM Eagle shall not be used on the Contract for pressurized pipe.
 - 3. Refer to AWWA C900-16 for all references to AWWA C905.

SECTION 402 - UTILITIES

- **402-2 PROTECTION.** To the "WHITEBOOK", item 2, ADD the following:
 - g) Refer to **Appendix G Advanced Metering Infrastructure (AMI) Device Protection** for more information on the protection of AMI devices.
- **402-6 COOPERATION.** To the "WHITEBOOK", ADD the following:
 - 1. Notify SDG&E at least 30 Working Days prior to excavating within 10 feet of SDG&E Underground High Voltage Transmission Power Lines (69 KV and higher).

SECTION 600 - ACCESS

- **600-1 GENERAL.** To the "WHITEBOOK", item 5, ADD the following:
 - d) See requirements in Attachment A pertaining to "continuity of operation"

SECTION 1001 - CONSTRUCTION BEST MANAGEMENT PRACTICES (BMPs)

- **1001-1 GENERAL.** To the "WHITEBOOK", ADD the following:
 - 8. Based on a preliminary assessment by the City, this Contract is subject to **SWPPP Risk Level 2**.
- **1001-2.10 BMP Inspection, Maintenance, and Repair.** To the "WHITEBOOK", ADD the following:
 - Maintenance activities shall be documented by the QSP or QSD in the Construction BMP Maintenance Log for projects subject to SWPPP requirements. See Appendix I - SWPPP Construction BMP Maintenance Log.

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SUPPLEMENTARY SPECIAL PROVISIONS

APPENDICES

APPENDIX A

CEQA GUIDELINES SECTION 15162 CONSISTENCY EVALUATION

THE CITY OF SAN DIEGO

MEMORANDUM

DATE: June 21, 2021

TO: Luis Campos, Senior Civil Engineer, Environmental Services Department

Jane-Marie Fajardo, Senior Planner, Environmental Services Department

FROM: Rebecca Malone, AICP, Senior Planner, Planning Department

Elena Pascual, Associate Planner, Planning Department

SUBJECT: CEQA Guidelines Section 15162 Consistency Evaluation for the Organics

Processing Facility Project

The Environmental Policy Section of the Planning Department has completed a California Environmental Quality Act (CEQA) Guidelines Section 15162 consistency evaluation in compliance with Public Resources Code Section 21166 for the Organics Processing Facility project ("OPF" or "project"). This evaluation was performed to determine if conditions specified in CEQA Guidelines Section 15162 would require preparation of a subsequent Environmental Impact Report (EIR) or subsequent negative declaration (ND) for the project. As outlined in this memo, the Planning Department has determined that the project is consistent with the Final Program Environmental Impact Statement (PEIS)/Master Environmental Impact Report (MEIR) for the Miramar Landfill General Development Plan/Fiesta Island Replacement Project/Northern Sludge Processing Facility/West Miramar Landfill Overburden Disposal project (DEP No. 91-0653/ SCH No. 1991121022), certified by San Diego City Council Resolution R-285601 on December 5, 1994; the ND for the Miramar Landfill Composting Operation project (Project No. 99-0431/SCH No. 1999091113) adopted by Mayoral Action in September 1999; and the ND for the Greenery Expansion project (Project No. 159323/SCH No. 2008121119) adopted by Mayoral Action on February 24, 2009. Implementation of the project would not result in new or more severe significant impacts over and above those disclosed in the previously certified and adopted environmental documents.

Background

The project is located within the footprint of the existing Miramar Landfill at 5180 Convoy Street, San Diego, CA 92111. The Miramar Landfill opened on December 7, 1959, and is comprised of three areas: South Miramar Landfill (operated from 1959 – 1973), North Miramar Landfill (operated from 1973 – 1983), and West Miramar Landfill (operated from 1983 – present). The West Miramar Landfill is divided into two areas (Phase I and Phase II), and the existing Miramar Greenery is located within the Phase 1 area of the West Miramar Landfill.

On December 5, 1994, the City of San Diego's (City) City Council adopted the Miramar Landfill General Development Plan (GDP; Resolution R-285063) which provided a comprehensive master plan for the future development of the Miramar Landfill. Pursuant to the GDP, the Miramar Greens/Wood Waste Recycling Center, as it was known at the time, was relocated from the North Miramar Landfill to the Phase I area of the West Miramar Landfill (see Attachments 1 and 2). As stated in the GDP, the relocation of the Miramar Greens/Wood Waste Recycling Center was planned to allow for the expansion of the facility to include a composting operation.

In 1999, the City approved the conversion of the organic greens material mulching program at the Miramar Greenery into a composting program. In 2009, the City approved a 45-acre expansion of the Miramar Greenery Composting Facility footprint from approximately 29.46 acres to approximately 74.46 acres. The expansion included additional windrows to accommodate increased feedstocks and associated processing, as well as the addition of manure and grease feedstocks to composting operations.

Environmental Setting

The Miramar Landfill is located at Marine Corps Air Station Miramar (MCAS Miramar) on land owned by the Department of Defense, and is operated by the City through a lease with the Department of the Navy. The Miramar Landfill is located near the center of the city and is bounded on the west by Interstate 805 (I-805), on the south by State Route 52 (SR-52), and on the east and north by other MCAS Miramar property. The Miramar Landfill is in Council District 6 and is classified as military use in the City's General Plan.

The proposed project site is on the North Miramar Landfill area within the existing Miramar Landfill footprint (see Attachment 3). A biological survey of the project area was conducted on March 10, 2021 which found that the vegetation of the top deck of the North Miramar Landfill as well as the western slope south of the ridge line is dominated by approximately 95% coverage of exotic Mediterranean grasses and other ruderal and exotic species (see Attachment 4). A landfill gas (LFG) extraction system is present throughout the site. There is a drainage that runs between the North Miramar Landfill and the East Mesa. The East Mesa is a dirt staging area that is graded and maintained for operational needs as they arise.

Scope of the Proposed Project

The project involves the relocation of the existing Miramar Greenery to the North Miramar Landfill and the East Mesa and the development of a new OPF. The OPF will include an Intake Facility and associated processing equipment, a new compost facility, a conveyor system, all stormwater and wastewater (leachate) facilities related to the OPF, and all associated infrastructure (roads, utilities, etc.). The Intake Facility, which will be located on the East Mesa, will be used for material unloading, feedstock material handling and processing, and chipping and grinding the feedstock. The Intake Facility will have four walls and a roof, and each of the four walls will be able to be opened a maximum of 75% through the use of roll-up doors or hanger-style (rolling) doors with widths capable of allowing commercial vehicles to pass through unimpeded. The Intake Facility will have as much natural lighting as possible through the use of skylights or solar tubes in the roof or through the use of translucent panels in the roof of a pre-engineered metal building (PEMB).

On the North Miramar Landfill, the OPF will include an active compost area (compost pad), a

curing and finished product processing area, a finished product storage area, a sales area(s), associated stormwater management improvements, associated wastewater (leachate) management facilities, and a designated area for chipping and grinding unpainted/untreated wood waste to use as the chipping operation feedstock to make dyed and un-dyed wood chips. The existing 24 GORETM CASPs and associated equipment, and additional covered positive aeration type composting equipment/system necessary to meet the permitted throughput and final product specification, will be used on the compost pad. The existing LFG wells and conveyance piping will be retained, and any proposed modifications will need to be approved by the City and permitted by the San Diego Air Pollution Control District (SDAPCD) and Local Enforcement Agency (LEA).

Access to the site will occur through public roads within the landfill and in a manner consistent with any easements or other rights-of-way. The access roads will be built and maintained within the project site to provide for delivery of materials and for access to work areas that specifically protect the LFG collection and control system. The project will also include all work plans necessary to minimize construction impacts including, but not limited to, a Wastewater (Leachate) Management Plan and a Stormwater Management Plan.

The OPF will be designed and constructed to conform with the Miramar Greenery's Compostable Materials Handling Facility Permit limits and the Regional Water Quality Control Board (RWQCB) Order WQ 2015-0121-DWQ General Waste Discharge Requirements for Composting Operations (Compost WDR). The existing permitted throughput (tons per day [tpd]), allowable feedstocks, and the type of greenery materials produced, including compost, mulch, and dyed and un-dyed wood chips will not change, and the maximum permitted daily tonnage of compostable materials will remain the same. Implementation of the project will allow the facility to accommodate both existing throughput and additional waste streams anticipated from new collection programs developed under Senate Bill (SB) 1383 and Assembly Bill (AB) 1826.

Previously Certified and Adopted CEQA Documents

Final PEIS/MEIR for the Miramar Landfill General Development Plan/Fiesta Island Replacement Project/Northern Sludge Processing Facility/West Miramar Landfill Overburden Disposal (1994)

The Final PEIS/MEIR for the Miramar Landfill General Development Plan/Fiesta Island Replacement Project/Northern Sludge Processing Facility/West Miramar Landfill Overburden Disposal analyzed the environmental effects associated with adoption and implementation of the Miramar Landfill GDP. The Miramar GDP was divided into two phases, with the relocation of the Miramar Greens/Wood Waste Recycling Center identified in the second phase of the GDP. The Final PEIS/MEIR included a program-level analysis for the Phase II components of the GDP and found that implementation of those elements would result in significant environmental impacts in the following issue areas: Geology/Soils; Air Quality; Hydrology/Water Quality; Biological Resources; Light and Glare; Transportation/Circulation; Water Conservation; Landform Alteration/Visual Quality; and Human Health/Public Safety. A Mitigation Monitoring and Reporting Program was adopted with the Final PEIS/MEIR to reduce potentially significant impacts to those issue areas. Pursuant to the Final PEIS/MEIR, subsequent projects within the Miramar Landfill footprint would require project-specific environmental analysis following completion of more detailed design work.

Final ND for the Miramar Landfill Composting Operation (1999)

The City prepared a ND in 1999 which analyzed the conversion of the organic greens material mulching program at the Miramar Greenery into a composting program. The ND for the Miramar Landfill Composting Operation found that the conversion of the organic greens material mulching program into a composting program would not result in a significant environmental effect on the following issue areas: Geology/Soils; Air; Hydrology/Water Quality; Biology; Noise; Light, Glare and Shading; Land Use; Natural Resources; Recreational Resources; Population; Housing; Transportation/Circulation; Public Services; Utilities; Energy; Water Conservation; Neighborhood Character/Aesthetics; Cultural Resources; Paleontological Resources; and Human Health/Public Safety.

Final ND for the Greenery Expansion (2009)

The City prepared a ND in 2009 which analyzed a 45-acre expansion of the Miramar Greenery Composting Facility footprint from approximately 29.46 acres to approximately 74.46 acres. The Final ND for the Greenery Expansion found that the expansion of the Miramar Greenery would not result in a significant environmental effect to the following issue areas: Aesthetics/Neighborhood Character; Agriculture Resources/Natural Resources/Mineral Resources; Air Quality; Biology; Energy; Geology/Soils; Historical Resources; Human Health/Public Safety/Hazardous Materials; Hydrology/Water Quality; Land Use; Noise; Paleontological Resources; Population and Housing; Public Services; Recreational Resources; Transportation/Circulation; Utilities; or Water Conservation.

CEQA Guidelines Section 15162 Criteria

When an EIR has been certified or a negative declaration adopted for a project, no subsequent EIR shall be prepared for that project unless the lead agency determines, based on substantial evidence in light of the whole record, one or more of the following:

- (1) Substantial changes are proposed in the project which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects;
- (2) Substantial changes occur with respect to the circumstances under which the project is undertaken which will require major revisions of the previous EIR or negative declaration due to the involvement of new significant environmental effects or a substantial increase in the severity of previously identified significant effects; or
- (3) New information of substantial importance, which was not known and could not have been known with the exercise of reasonable diligence at the time the previous EIR was certified as complete or the negative declaration was adopted, shows any of the following:
 - A. The project will have one or more significant effects not discussed in the previous EIR or negative declaration;
 - B. Significant effects previously examined will be substantially more severe than shown in the previous EIR;

- C. Mitigation measures or alternatives previously found not to be feasible would in fact be feasible and would substantially reduce one or more significant effects of the project, but the project proponents decline to adopt the mitigation measure or alternative; or
- D. Mitigation measures or alternatives which are considerably different from those analyzed in the previous EIR would substantially reduce one or more significant effects on the environment, but the project proponents decline to adopt the mitigation measure or alternative.

None of the three criteria listed above has occurred, therefore the Environmental Policy Section of the Planning Department has determined that there is no need to prepare subsequent or supplemental environmental documents for the project. The Final PEIS/MEIR for the Miramar Landfill General Development Plan/Fiesta Island Replacement Project/Northern Sludge Processing Facility/West Miramar Landfill Overburden Disposal, the Final ND for the Miramar Landfill Composting Operation, and the Final ND for the Greenery Expansion have been incorporated by reference pursuant to CEQA Guidelines Section 15150.

CEQA Guidelines Section 15162 Consistency Evaluation

The proposed relocation of the Miramar Greenery to the North Miramar Landfill would not result in new significant environmental effects or substantially increase the severity of previously identified significant impacts. As stated above, the Miramar Greenery was located on the North Miramar Landfill prior to the adoption and implementation of the 1994 Miramar Landfill GDP. The proposed relocation would not result in new significant environmental effects because there is a past history of this facility operating in this area, as discussed in the 1994 Final PEIS/MEIR (City of San Diego, 1994, p. 3–2). Although the facility has expanded its footprint and operation since 1994, its expansion and conversion to a composting program was analyzed in the abovementioned subsequent environmental documents and it was determined that no significant impacts would occur with those improvements.

The project would not result in a significant impact to biological, cultural, tribal cultural, or paleontological resources. Per the biological survey conducted on March 10, 2021, no sensitive species or habitats exist within the project area. An aerial review of the site revealed that there are no structures, historic or otherwise, onsite and it is unlikely that there are undiscovered cultural, paleontological, or tribal cultural resources beneath the surface given the ongoing landfill management practices associated with the North Miramar Landfill's closure and monitoring plan and the site's previous use as a landfill. No National Environmental Policy Act (NEPA) or CEQA documentation was prepared to evaluate the potential effects associated with operation of the North Miramar Landfill, and no mitigation measures were developed to reduce impacts to any biological, cultural, tribal cultural, or paleontological resources that could have potentially existed at the North Miramar Landfill prior to its operation as a landfill (City of San Diego, 1994, p. 4-4). Furthermore, the Final PEIS/MEIR for the Miramar Landfill GDP found that no known sacred or sensitive Native American sites existed within or near the Miramar Landfill (City of San Diego, 1994, p. 4-56). Similarly, none of the historic and/or prehistoric cultural resources recorded within or near the Miramar Landfill were eligible for nomination to the National Register of Historic Places, and they were categorized as not important under CEQA (City of San Diego, 1994, p.

4-56). Thus, the project would not result in a new significant impact, nor would it substantially increase the severity of previously identified biological, cultural, tribal cultural, or paleontological impacts.

Construction of the OPF and associated infrastructure will not result in new significant effects or substantially increase the severity of previously identified significant impacts. The project will be designed and constructed to comply with all applicable federal, state, and local laws and regulations including, but not limited to, the California Code of Regulations (CCR) Titles 14 and 27; Compost WDR; site-specific Stormwater WDR; SDAPCD rules and regulations; Compostable Materials Handling Facility Permit; and all regulations regarding the handling and disposal of hazardous materials and solid waste. Additionally, the project will obtain and comply with all government approvals required for the work (e.g. health and safety codes, stormwater pollution prevention plan [SWPPP], State Water Resources Control Board [SWRCB] Construction Stormwater Program, etc.). Compliance with the existing regulatory framework will ensure that implementation of the project does not result in a significant effect on the environment. Furthermore, the project area does not contain any sensitive biological resources and is far from noise sensitive land uses such as residences; therefore, construction of the project is not anticipated to result in a significant noise impact. Thus, the project is consistent with the environmental analysis of the abovementioned environmental documents.

Operation of the project will not result in new significant effects or substantially increase the severity of previously identified significant impacts. The OPF will operate under the current Compostable Materials Handling Facility Permit and the maximum permitted daily tonnage of compostable materials will remain the same. The facility's footprint will also not expand beyond what currently exists (approximately 75 acres). Furthermore, the Intake Facility use natural lighting as much as possible through the use of skylights or solar tubes in the roof, or through the use of translucent panels in the roof PEMB. Thus, it is anticipated that future operation of the OPF will be similar to current operations, and there would not be an expansion of energy or public utilities use. Operational emissions associated with the project are anticipated to be similar to emissions at the existing Miramar Greenery because the project would not change any current operations and would process the same amount of waste as it does today. Operation of the project is also consistent with Strategy 4 of the City's Climate Action Plan as it will help to reduce the amount of waste that enters the landfill. Consistent with the analysis in the 1994 Final PEIS/MEIR, the development of stormwater and wastewater (leachate) facilities onsite would minimize potential impacts to surface water quality (City of San Diego, 1994, p. 5-17). Traffic impacts would be consistent with the analysis of the 1999 and 2009 NDs as there are no project components which would substantially increase vehicle trips to the site. Additionally, the Miramar Greenery is considered a locally serving public facility per the City's Transportation Study Manual, and as such is presumed to have a less than significant vehicle miles travelled (VMT) impact due to its characteristics as a waste management facility. Odor and public health and safety impacts would be similar to what was analyzed in the 2009 ND and would be addressed through compliance with the appropriate federal, state, and local regulations. Thus, the project is consistent with the environmental analysis of the previously certified and adopted environmental documents.

Conclusion

The Environmental Policy Section of the Planning Department has conducted a consistency evaluation of the proposed project in accordance with CEQA Guidelines Section 15162 and has determined that the project would not result in new significant direct, indirect, or cumulative impacts beyond those identified in the Final PEIS/MEIR for the Miramar Landfill General Development Plan/Fiesta Island Replacement Project/Northern Sludge Processing Facility/West Miramar Landfill Overburden Disposal, the Final ND for the Miramar Landfill Composting Operation, and the Final ND for the Greenery Expansion.

Elena Pascual, Associate Planner Planning Department

Elena Pascuel

RM:ep

Attachments: 1. Figure 4.1-3 from the 1994 Final PEIS/MEIR: Existing Operations in the Miramar Landfill Area

- 2. Figure 4 from the 1994 Miramar Landfill GDP: General Development Plan Proposed Facilities
- 3. Existing Site Conditions
- 4. Biological Resources Memo for the Miramar Organics Processing Facility

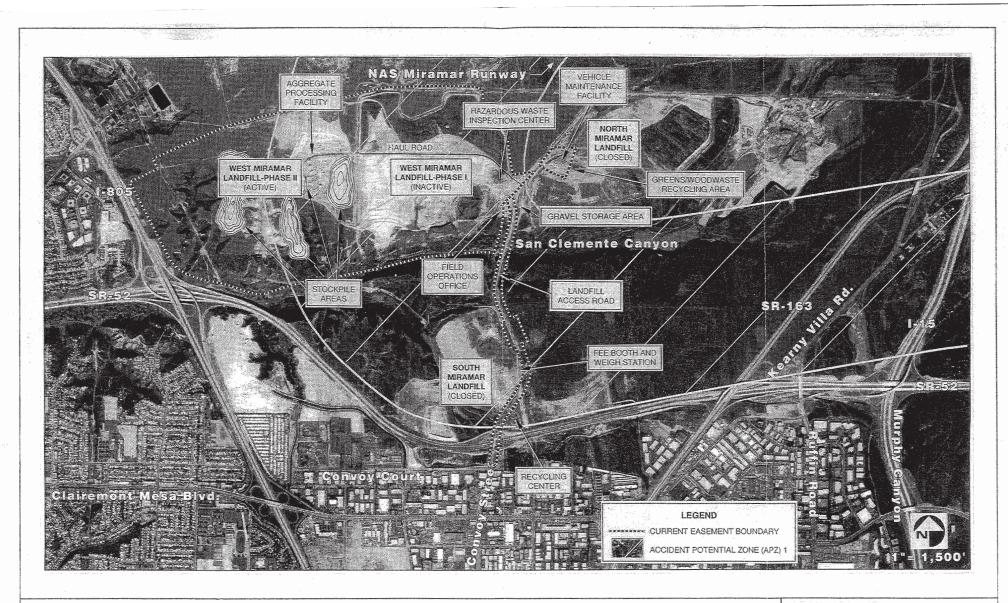
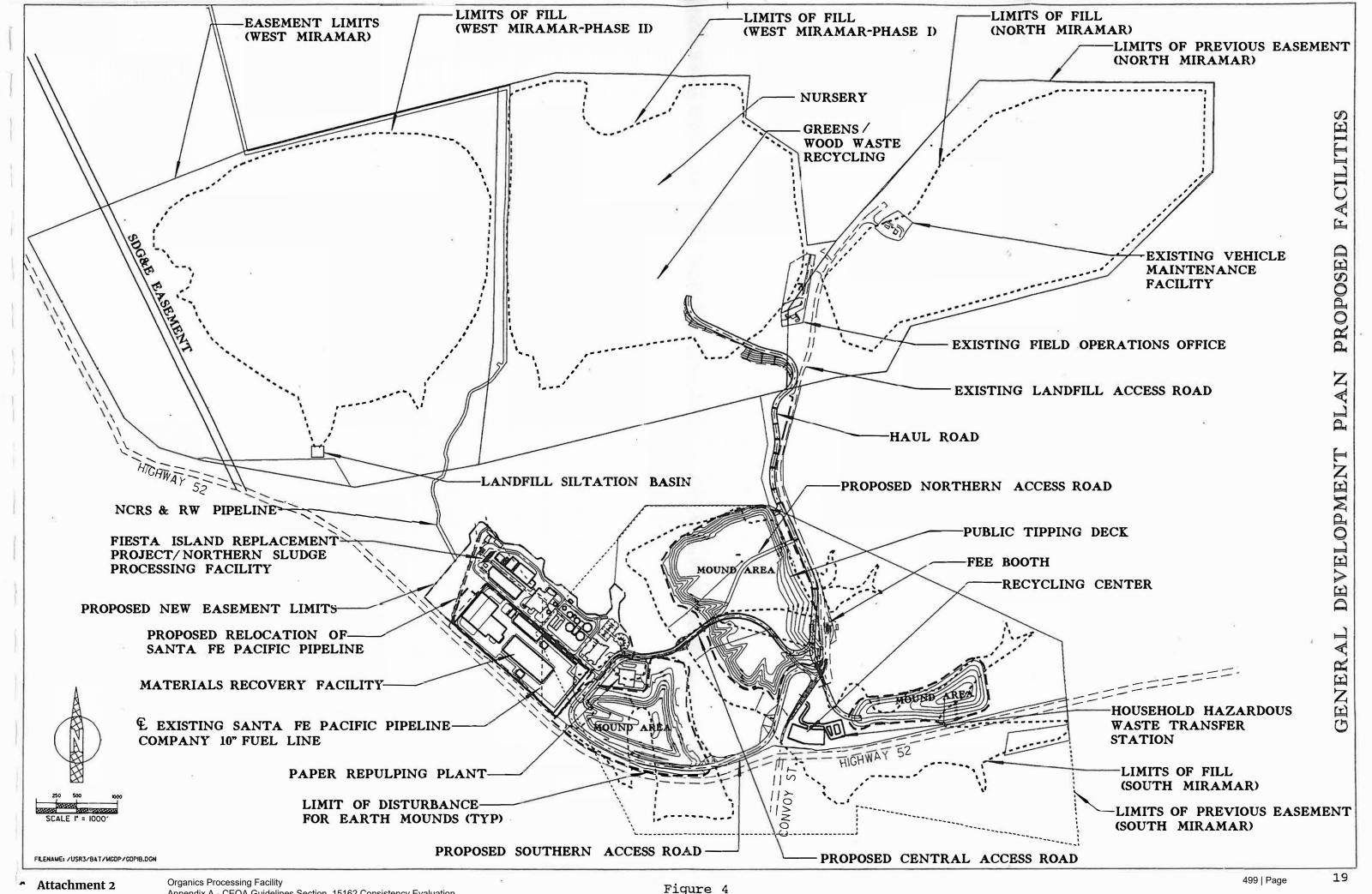
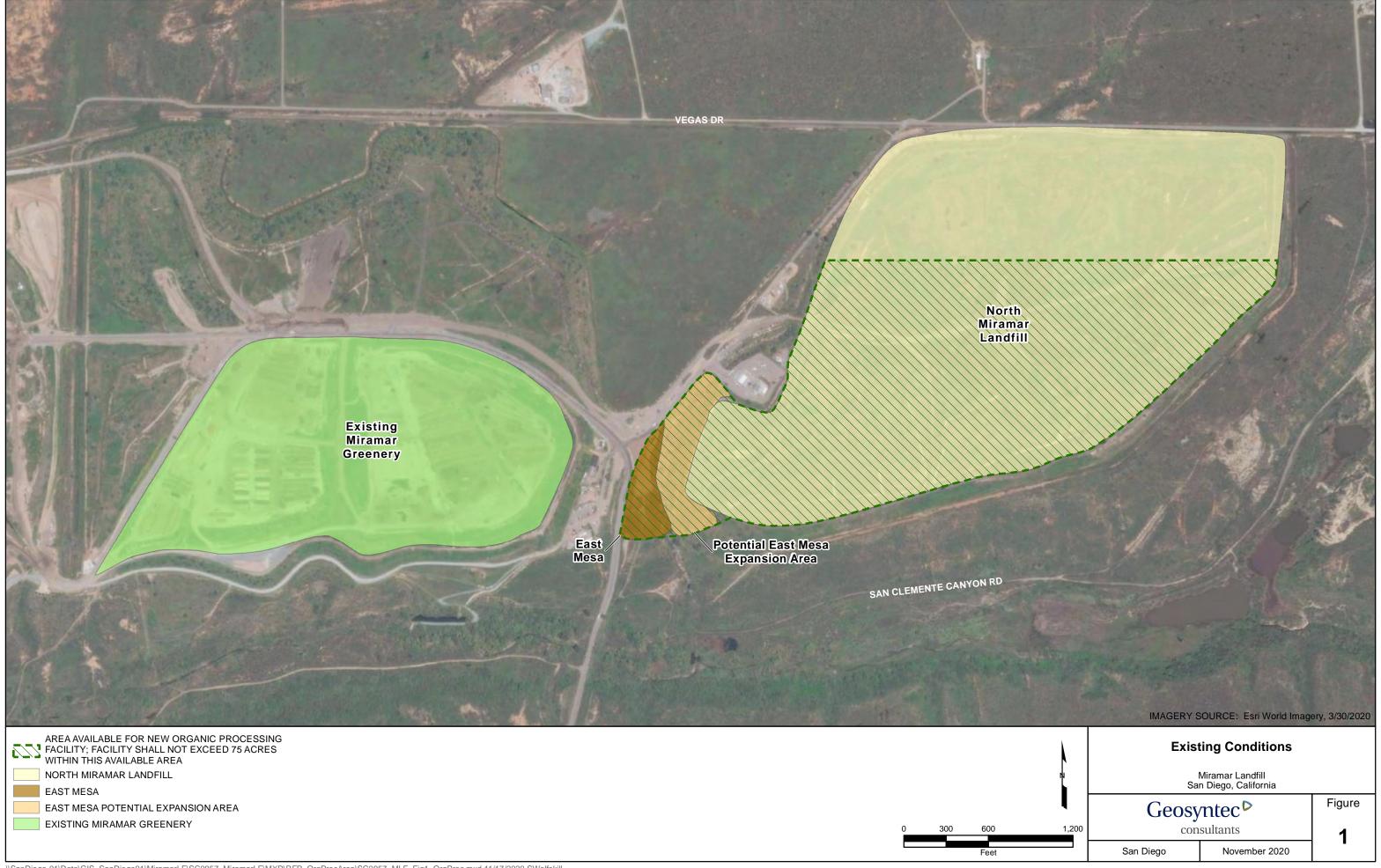


FIGURE I-4.1-3

EXISTING OPERATIONS IN THE MIRAMAR LANDFILL AREA







THE CITY OF SAN DIEGO

MEMORANDUM

DATE: March 11, 2021

TO: Elena Pascual, Associate Planner, Planning Department

FROM: Burton Ewert, Biologist, Environmental Services Department

SUBJECT: Vegetation Description for North Miramar Landfill, Miramar Organics

Processing Facility

The area known as North Miramar Landfill, being considered for location of an Organics Processing Facility, was surveyed on March 10, 2021. The area surveyed includes the entirety of the top deck of the landfill, the western slope south of the ridge line, and the area known as the East Mesa.

Vegetation on the top deck is dominated by approximately 95% coverage of exotic Mediterranean grasses (*Bromus, Avena, Fescuta, Hordium*, etc.). Additional plant species found on the top deck include other ruderal and exotic species including *Acacia sp.*, Curly dock (*Rumex crispus*), Russian thistle (*Salsola tragus*), crown daisy (*Glebionis coronaria*), tree tobacco (*Nicotiana glauca*), mustard (*Hirschfeldia incana*), artichoke thistle (*Cynara cardunculus*), broom baccharis (*Baccharis sarothroides*), etc. The top deck of the landfill is subject to ongoing landfill management practices to maintain surface continuity and drainage, and a gas extraction system is present throughout the site. The western slope is consistent with this vegetation, 95% coverage of exotic Mediterranean grasses, and the gas extraction system. There is a drainage that runs between North Miramar landfill and the East Mesa. Vegetation found within this drainage consist of Mexican fan palm (*Washingtonia robusta*), serval species of *Eucalyptus sp.*, and *Acacia sp.* The East Mesa is a dirt staging area that is graded and maintained for operation needs as they arise.

Burton Ewert Biologist

cc: Renee Robertson, Deputy Director, Environmental Services Department Myra Herrmann, Senior Planner, Environmental Services Department Luis Campos, Senior Engineer, Environmental Services Department Jane-Marie Fajardo, Senior Planner, Environmental Services Department

APPENDIX B

FIRE HYDRANT METER PROGRAM

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1. **PURPOSE**

1.1 To establish a Departmental policy and procedure for issuance, proper usage and charges for fire hydrant meters.

2. **AUTHORITY**

- 2.1 All authorities and references shall be current versions and revisions.
- 2.2 San Diego Municipal Code (NC) Chapter VI, Article 7, Sections 67.14 and 67.15
- 2.3 Code of Federal Regulations, Safe Drinking Water Act of 1986
- 2.4 California Code of Regulations, Titles 17 and 22
- 2.5 California State Penal Code, Section 498B.0
- 2.6 State of California Water Code, Section 110, 500-6, and 520-23
- 2.7 Water Department Director

Reference

- 2.8 State of California Guidance Manual for Cross Connection Programs
- 2.9 American Water Works Association Manual M-14, Recommended Practice for Backflow Prevention
- 2.10 American Water Works Association Standards for Water Meters
- 2.11 U.S.C. Foundation for Cross Connection Control and Hydraulic Research Manual

3. **DEFINITIONS**

3.1 **Fire Hydrant Meter:** A portable water meter which is connected to a fire hydrant for the purpose of temporary use. (These meters are sometimes referred to as Construction Meters.)

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- 3.2 **Temporary Water Use:** Water provided to the customer for no longer than twelve (12) months.
- 3.3 **Backflow Preventor:** A Reduced Pressure Principal Assembly connected to the outlet side of a Fire Hydrant Meter.

4. **POLICY**

- 4.1 The Water Department shall collect a deposit from every customer requiring a fire hydrant meter and appurtenances prior to providing the meter and appurtenances (see Section 7.1 regarding the Fees and Deposit Schedule). The deposit is refundable upon the termination of use and return of equipment and appurtenances in good working condition.
- 4.2 Fire hydrant meters will have a 2 ½" swivel connection between the meter and fire hydrant. The meter shall not be connected to the 4" port on the hydrant. All Fire Hydrant Meters issued shall have a Reduced Pressure Principle Assembly (RP) as part of the installation. Spanner wrenches are the only tool allowed to turn on water at the fire hydrant.
- 4.3 The use of private hydrant meters on City hydrants is prohibited, with exceptions as noted below. All private fire hydrant meters are to be phased out of the City of San Diego. All customers who wish to continue to use their own fire hydrant meters must adhere to the following conditions:
 - a. Meters shall meet all City specifications and American Water Works Association (AWWA) standards.
 - b. Customers currently using private fire hydrant meters in the City of San Diego water system will be allowed to continue using the meter under the following conditions:
 - 1. The customer must submit a current certificate of accuracy and calibration results for private meters and private backflows annually to the City of San Diego, Water Department, Meter Shop.

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- 2. The meter must be properly identifiable with a clearly labeled serial number on the body of the fire hydrant meter. The serial number shall be plainly stamped on the register lid and the main casing. Serial numbers shall be visible from the top of the meter casing and the numbers shall be stamped on the top of the inlet casing flange.
- 3. All meters shall be locked to the fire hydrant by the Water Department, Meter Section (see Section 4.7).
- 4. All meters shall be read by the Water Department, Meter Section (see Section 4.7).
- 5. All meters shall be relocated by the Water Department, Meter Section (see Section 4.7).
- 6. These meters shall be tested on the anniversary of the original test date and proof of testing will be submitted to the Water Department, Meter Shop, on a yearly basis. If not tested, the meter will not be allowed for use in the City of San Diego.
- 7. All private fire hydrant meters shall have backflow devices attached when installed.
- 8. The customer must maintain and repair their own private meters and private backflows.
- 9. The customer must provide current test and calibration results to the Water Department, Meter Shop after any repairs.
- 10. When private meters are damaged beyond repair, these private meters will be replaced by City owned fire hydrant meters.

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- 11. When a private meter malfunctions, the customer will be notified and the meter will be removed by the City and returned to the customer for repairs. Testing and calibration results shall be given to the City prior to any reinstallation.
- 12. The register shall be hermetically sealed straight reading and shall be readable from the inlet side. Registration shall be in hundred cubic feet.
- 13. The outlet shall have a 2 ½ "National Standards Tested (NST) fire hydrant male coupling.
- 14. Private fire hydrant meters shall not be transferable from one contracting company to another (i.e. if a company goes out of business or is bought out by another company).
- 4.4 All fire hydrant meters and appurtenances shall be installed, relocated and removed by the City of San Diego, Water Department. All City owned fire hydrant meters and appurtenances shall be maintained by the City of San Diego, Water Department, Meter Services.
- 4.5 If any fire hydrant meter is used in violation of this Department Instruction, the violation will be reported to the Code Compliance Section for investigation and appropriate action. Any customer using a fire hydrant meter in violation of the requirements set forth above is subject to fines or penalties pursuant to the Municipal Code, Section 67.15 and Section 67.37.

4.6 Conditions and Processes for Issuance of a Fire Hydrant Meter

Process for Issuance

- a. Fire hydrant meters shall only be used for the following purposes:
 - 1. Temporary irrigation purposes not to exceed one year.

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- 2. Construction and maintenance related activities (see Tab 2).
- b. No customer inside or outside the boundaries of the City of San Diego Water Department shall resell any portion of the water delivered through a fire hydrant by the City of San Diego Water Department.
- c. The City of San Diego allows for the issuance of a temporary fire hydrant meter for a period not to exceed 12 months (365 days). An extension can only be granted in writing from the Water Department Director for up to 90 additional days. A written request for an extension by the consumer must be submitted at least 30 days prior to the 12 month period ending. No extension shall be granted to any customer with a delinquent account with the Water Department. No further extensions shall be granted.
- d. Any customer requesting the issuance of a fire hydrant meter shall file an application with the Meter Section. The customer must complete a "Fire Hydrant Meter Application" (Tab 1) which includes the name of the company, the party responsible for payment, Social Security number and/or California ID, requested location of the meter (a detailed map signifying an exact location), local contact person, local phone number, a contractor's license (or a business license), description of specific water use, duration of use at the site and full name and address of the person responsible for payment.
- e. At the time of the application the customer will pay their fees according to the schedule set forth in the Rate Book of Fees and Charges, located in the City Clerk's Office. All fees must be paid by check, money order or cashiers check, made payable to the City Treasurer. Cash will not be accepted.
- f. No fire hydrant meters shall be furnished or relocated for any customer with a delinquent account with the Water Department.
- g. After the fees have been paid and an account has been created, the

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meter shall be installed within 48 hours (by the second business day). For an additional fee, at overtime rates, meters can be installed within 24 hours (within one business day).

4.7 Relocation of Existing Fire Hydrant Meters

- a. The customer shall call the Fire Hydrant Meter Hotline (herein referred to as "Hotline"), a minimum of 24 hours in advance, to request the relocation of a meter. A fee will be charged to the existing account, which must be current before a work order is generated for the meter's relocation.
- b. The customer will supply in writing the address where the meter is to be relocated (map page, cross street, etc). The customer must update the original Fire Hydrant Meter Application with any changes as it applies to the new location.
- c. Fire hydrant meters shall be read on a monthly basis. While fire hydrant meters and backflow devices are in service, commodity, base fee and damage charges, if applicable, will be billed to the customer on a monthly basis. If the account becomes delinquent, the meter will be removed.

4.8 **Disconnection of Fire Hydrant Meter**

- a. After ten (10) months a "Notice of Discontinuation of Service" (Tab 3) will be issued to the site and the address of record to notify the customer of the date of discontinuance of service. An extension can only be granted in writing from the Water Department Director for up to 90 additional days (as stated in Section 4.6C) and a copy of the extension shall be forwarded to the Meter Shop Supervisor. If an extension has not been approved, the meter will be removed after twelve (12) months of use.
- b. Upon completion of the project the customer will notify the Meter Services office via the Hotline to request the removal of the fire hydrant meter and appurtenances. A work order will be generated

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for removal of the meter.

- c. Meter Section staff will remove the meter and backflow prevention assembly and return it to the Meter Shop. Once returned to the Meter Shop the meter and backflow will be tested for accuracy and functionality.
- d. Meter Section Staff will contact and notify Customer Services of the final read and any charges resulting from damages to the meter and backflow or its appurtenance. These charges will be added on the customer's final bill and will be sent to the address of record. Any customer who has an outstanding balance will not receive additional meters.
- e. Outstanding balances due may be deducted from deposits and any balances refunded to the customer. Any outstanding balances will be turned over to the City Treasurer for collection. Outstanding balances may also be transferred to any other existing accounts.

5. **EXCEPTIONS**

5.1 Any request for exceptions to this policy shall be presented, in writing, to the Customer Support Deputy Director, or his/her designee for consideration.

6. **MOBILE METER**

- Mobile meters will be allowed on a case by case basis. All mobile meters will be protected by an approved backflow assembly and the minimum requirement will be a Reduced Pressure Principal Assembly. The two types of Mobile Meters are vehicle mounted and floating meters. Each style of meters has separate guidelines that shall be followed for the customer to retain service and are described below:
 - a) **Vehicle Mounted Meters**: Customer applies for and receives a City owned Fire Hydrant Meter from the Meter Shop. The customer mounts the meter on the vehicle and brings it to the Meter Shop for

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inspection. After installation is approved by the Meter Shop the vehicle and meter shall be brought to the Meter Shop on a monthly basis for meter reading and on a quarterly basis for testing of the backflow assembly. Meters mounted at the owner's expense shall have the one year contract expiration waived and shall have meter or backflow changed if either fails.

- b) Floating Meters: Floating Meters are meters that are not mounted to a vehicle. (Note: All floating meters shall have an approved backflow assembly attached.) The customer shall submit an application and a letter explaining the need for a floating meter to the Meter Shop. The Fire Hydrant Meter Administrator, after a thorough review of the needs of the customer, (i.e. number of jobsites per day, City contract work, lack of mounting area on work vehicle, etc.), may issue a floating meter. At the time of issue, it will be necessary for the customer to complete and sign the "Floating Fire Hydrant Meter Agreement" which states the following:
 - 1) The meter will be brought to the Meter Shop at 2797 Caminito Chollas, San Diego on the third week of each month for the monthly read by Meter Shop personnel.
 - 2) Every other month the meter will be read and the backflow will be tested. This date will be determined by the start date of the agreement.

If any of the conditions stated above are not met the Meter Shop has the right to cancel the contract for floating meter use and close the account associated with the meter. The Meter Shop will also exercise the right to refuse the issuance of another floating meter to the company in question.

Any Fire Hydrant Meter using reclaimed water shall not be allowed use again with any potable water supply. The customer shall incur the cost of replacing the meter and backflow device in this instance.

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7. **FEE AND DEPOSIT SCHEDULES**

7.1 **Fees and Deposit Schedules:** The fees and deposits, as listed in the Rate Book of Fees and Charges, on file with the Office of the City Clerk, are based on actual reimbursement of costs of services performed, equipment and materials. Theses deposits and fees will be amended, as needed, based on actual costs. Deposits, will be refunded at the end of the use of the fire hydrant meter, upon return of equipment in good working condition and all outstanding balances on account are paid. Deposits can also be used to cover outstanding balances.

All fees for equipment, installation, testing, relocation and other costs related to this program are subject to change without prior notification. The Mayor and Council will be notified of any future changes.

8. <u>UNAUTHORIZED USE OF WATER FROM A HYDRANT</u>

- 8.1 Use of water from any fire hydrant without a properly issued and installed fire hydrant meter is theft of City property. Customers who use water for unauthorized purposes or without a City of San Diego issued meter will be prosecuted.
- 8.2 If any unauthorized connection, disconnection or relocation of a fire hydrant meter, or other connection device is made by anyone other than authorized Water Department personnel, the person making the connection will be prosecuted for a violation of San Diego Municipal Code, Section 67.15. In the case of a second offense, the customer's fire hydrant meter shall be confiscated and/or the deposit will be forfeited.
- 8.3 Unauthorized water use shall be billed to the responsible party. Water use charges shall be based on meter readings, or estimates when meter readings are not available.
- 8.4 In case of unauthorized water use, the customer shall be billed for all applicable charges as if proper authorization for the water use had been obtained, including but not limited to bi-monthly service charges, installation charges and removal charges.

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8.5 If damage occurs to Water Department property (i.e. fire hydrant meter, backflow, various appurtenances), the cost of repairs or replacements will be charged to the customer of record (applicant).

Water Department Director

Tabs: 1. Fire Hydrant Meter Application

2. Construction & Maintenance Related Activities With No Return

To Sewer

3. Notice of Discontinuation of Service

APPENDIX

Administering Division: Customer Support Division

Subject Index: Construction Meters

Fire Hydrant

Fire Hydrant Meter Program

Meters, Floating or Vehicle Mounted

Mobile Meter

Program, Fire Hydrant Meter

Distribution: DI Manual Holders



Application for Fire (EXHIBIT A) **Hydrant Meter**

Application Date

(For Office Use Only)

NS REQ	FAC#	
DATE	ВУ	

Requested Install Date:

METER SHOP (619) 527-7449

Meter	Inform	ation
-------	--------	-------

			CONTRACTOR OF THE PERSON NAMED IN		
Fire Hydrant Location: (Attach Detailed Map//Thomas Bros. I	Map Location or C	onstruction drawing.) <u>Zip:</u>	<u>T.B.</u>	to the constitution of the best differences.	G.B. (CITY USE)
Specific Use of Water:					
Any Return to Sewer or Storm Drain, If so , explain:			,		
Estimated Duration of Meter Use:	1		Check	Box if Recla	imed Water
Company Information					TOTAL CONTROL OF THE PARTY OF T
Company Name:					
Mailing Address:					
City: State	2:	Zip:	Phone: (1	
*Business license#	*C	ontractor license#			
A Copy of the Contractor's license OR Business	License is re	guired at the time o	of meter issue	ance	
Name and Title of Billing Agent: (PERSON IN ACCOUNTS PAYABLE)			Phone: ()	
Site Contact Name and Title:		·	Phone: ()	
Responsible Party Name: Title:					
Cal ID#	4.4		Phone: ()	
Signature:		Date:			4.
Guarantees Payment of all Charges Resulting from the use of this Me	ter. <u>Insures that em</u>	ployees of this Organization	understand the pro	per use of Fir	e Hydrant Meter
	5 _{4.3}				
Fire Hydrant Meter Removal Requ	est	Requested Re	emoval Date:		
Provide Current Meter Location if Different from Above:	7. 11. 41. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1				
Signature:		Title:		Date:	
Phone: ()	Page	er: ()	15		8 AC 5 1
	2				
City Meter Private Meter				Maria (de la maria de la m	
Contract Acct #:	Deposit Amo	unt: \$ 936.00	Fees Amount:	\$ 62.0	00
Meter Serial #	Meter Size:	05	Meter Make a	nd Style:	6-7
Backflow #	Backflow Size:		Backflow Make and Style	~ !	
Name:	Signature:			ate:	

WATER USES WITHOUT ANTICIPATED CHARGES FOR RETURN TO SEWER

Auto Detailing

Backfilling

Combination Cleaners (Vactors)

Compaction

Concrete Cutters

Construction Trailers

Cross Connection Testing

Dust Control

Flushing Water Mains

Hydro Blasting

Hydro Seeing

Irrigation (for establishing irrigation only; not continuing irrigation)

Mixing Concrete

Mobile Car Washing

Special Events

Street Sweeping

Water Tanks

Water Trucks

Window Washing

Note:

1. If there is any return to sewer or storm drain, then sewer and/or storm drain fees will be charges.

Date	
Name of Responsible Party Company Name and Address Account Number:	
Subject: Discontinuation of Fire Hydrant Meter Service	
Dear Water Department Customer:	
The authorization for use of Fire Hydrant Meter #, locate ends in 60 days and will be removed on or after (Date Authorization Exadditional 90 days must be submitted in writing for consideration 30 data. If you require an extension, please contact the Water Department extension to:	cpires). Extension requests for an anys prior to the discontinuation
City of San Diego	
Water Department Attention: Meter Services	
2797 Caminito Chollas	
San Diego, CA 92105-5097	
Should you have any questions regarding this matter, please call the Fin	re Hydrant Hotline at (619)
.	
Sincerely,	
Water Department	

APPENDIX C

MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

MATERIALS TYPICALLY ACCEPTED BY CERTIFICATE OF COMPLIANCE

- 1. Soil amendment
- 2. Fiber mulch
- 3. PVC or PE pipe up to 16 inch diameter
- 4. Stabilizing emulsion
- 5. Lime
- 6. Preformed elastomeric joint seal
- 7. Plain and fabric reinforced elastomeric bearing pads
- 8. Steel reinforced elastomeric bearing pads
- 9. Waterstops (Special Condition)
- 10. Epoxy coated bar reinforcement
- 11. Plain and reinforcing steel
- 12. Structural steel
- 13. Structural timber and lumber
- 14. Treated timber and lumber
- 15. Lumber and timber
- 16. Aluminum pipe and aluminum pipe arch
- 17. Corrugated steel pipe and corrugated steel pipe arch
- 18. Structural metal plate pipe arches and pipe arches
- 19. Perforated steel pipe
- 20. Aluminum underdrain pipe
- 21. Aluminum or steel entrance tapers, pipe downdrains, reducers, coupling bands and slip joints
- 22. Metal target plates
- 23. Paint (traffic striping)
- 24. Conductors
- 25. Painting of electrical equipment
- 26. Electrical components
- 27. Engineering fabric
- 28. Portland Cement
- 29. PCC admixtures
- 30. Minor concrete, asphalt
- 31. Asphalt (oil)
- 32. Liquid asphalt emulsion
- 33. Epoxy

APPENDIX D

SAMPLE CITY INVOICE WITH CASH FLOW FORECAST

City of San Diego, CM&FS Div., 9753 Chesapeake Drive, SD CA 92123

Project Name:
Contractor's Name:
Contractor's Address:

Work Order No or Job Order No.
City Purchase Order No.
Resident Engineer (RE):
Contractor's Phone #:
Invoice No.
Invoice Date:

Resident Engineer (RE):
RE Phone#: Fax#:

Contract Name:

Contract Name:

Billing Period: (To)

Item # Item Description

Contract Authorization

Unit Price Oty Extension

Solution

Solution

Previous Totals To Date

W/QTY Amount %/OTY Am

		0	٠.,	Extrollorol.	, , ,	7 11110		, , ,	7 11110 01110	70 / 4	711110 01111
1				\$ -		\$	-		\$ -	0.00	\$ -
2				\$ -		\$	7		\$ -	0.00%	\$ -
3				\$ -		\$	-		\$ -	0.00%	\$ -
4				\$ -		\$	-		\$ -	0.00%	\$ -
5				\$ -		\$	-		\$ -	0.00%	\$ -
6				\$ -		\$	-		\$ -	0.00%	\$ -
7				\$ -		\$	-		\$ -	0.00%	\$ -
8				\$ -		\$	-		\$ -	0.00%	\$ -
5				\$ -		\$	-		\$ -	0.00%	\$ -
6				\$		\$	-		\$ -	0.00%	\$ -
7				\$ -		\$	-		\$ -	0.00%	\$ -
8				\$		\$	-		\$ -	0.00%	\$ -
9				\$ -		\$	-		\$ -	0.00%	\$ -
10				\$ -		\$	-		\$ -	0.00%	\$ -
11				\$ -		\$	-		\$ -	0.00%	\$ -
12				\$ -		\$	-		\$ -	0.00%	\$ -
13				\$ -		\$	-		\$ -	0.00%	\$ -
14				\$ -		\$	-		\$ -	0.00%	\$ -
15				\$ -		\$	-		\$ -	0.00%	\$ -
16				\$ -		\$	-		\$ -	0.00%	\$ -
17	Field Orders			\$ -		\$	-		\$ -	0.00%	\$ -
				\$ -		\$	-		\$ -	0.00%	\$ -
	CHANGE ORDER No.			\$ -		\$	-		\$ -	0.00%	\$ -
				\$ -		\$	-		\$ -	0.00%	\$ -
	Total Authorized Amour	nt (including approve	d Change Order)	\$ -		\$	-		\$ -	Total Billed	\$ -

SUMMARY

SUIVIIVIARY				
A. Original Contract Amount	\$ -	I certify that the materials	Retention and/or Escrow Payment Schedule	
B. Approved Change Order #00 Thru #00	\$ -	have been received by me in	Total Retention Required as of this billing (Item E)	\$0.00
C. Total Authorized Amount (A+B)	\$ _	the quality and quantity specified	Previous Retention Withheld in PO or in Escrow	\$0.00
D. Total Billed to Date	\$ -		Add'l Amt to Withhold in PO/Transfer in Escrow:	\$0.00
E. Less Total Retention (5% of D)	\$ -	Resident Engineer	Amt to Release to Contractor from PO/Escrow:	
F. Less Total Previous Payments	\$ -			
G. Payment Due Less Retention	\$0.00	Construction Engineer		
H. Remaining Authorized Amount	\$0.00		Contractor Signature and Date:	

NOTE: CONTRACTOR TO CALCULATE TO THE 2ND DECIMAL PLACE.

WBS #:	B18108
Date Submitted:	10/10/2018
NTP Date:	3/23/2018
Final Statement of WD Date:	5/23/2020
Contract #:	K-XX-XXXX-XXX-X
Contract Amount:	\$5,617,000

Construction Cash Flow Forecast

"Sewer and Water Group Job 965 (W)"

Year	January	February	March	April	May	June	July	August	September	October	November	December
2018				15,000	25,000	52,000	52,000	100,000	10,000	100,000	100,000	100,000
2019	10,000	10,000	85,000	58,000	100,000	100,000	100,000	100,000	100,000	100,000	1,000,000	1,000,000
2020	100,000	100,000	100,000	1,000,000	1,000,000							
2021												
2022												
2023												
2024												
2025												

APPENDIX E

LOCATION MAP



APPENDIX F

SAMPLE OF PUBLIC NOTICE

FOR SAMPLE REFERENCE ONLY





CONSTRUCTION NOTICE

PROJECT TITLE

Work on your street will begin within one week to replace the existing water mains servicing your community.

The work will consist of:

- Saw-cutting and trench work on Ingulf Street from Morena Boulevard to Galveston Street to install new water mains, water laterals and fire hydrants.
- Streets where trenching takes place will be resurfaced and curb ramps will be upgraded to facilitate access for persons with disabilities where required.
- This work is anticipated to be complete in your community by December 2016.

How your neighborhood may be impacted:

- Water service to some properties during construction will be provided by a two-inch highline pipe that will run along the curb. To report a highline leak call 619-515-3525.
- Temporary water service disruptions are planned. If planned disruptions impact your property, you will receive advance notice.
- Parking restrictions will exist because of the presence of construction equipment and materials.
- "No Parking" signs will be displayed 72 hours in advance of the work.
- Cars parked in violation of signs will be TOWED.

Hours and Days of Operation:

Monday through Friday X:XX AM to X:XX PM.

City of San Diego Contractor:

Company Name, XXX-XXX-XXXX







CONSTRUCTION NOTIC

PROJECT TITLE

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Hours and Days of Operation:

Monday through Friday X:XX AM to X:XX PM.

City of San Diego Contractor:

Company Name, XXX-XXX-XXXX

To contact the City of San Diego: SDD Public Works 619-533-4207 engineering@sandiego.gov sandiego.gov/CIP



APPENDIX G

ADVANCED METERING INFRASTRUCTURE (AMI) DEVICE PROTECTION

Protecting AMI Devices in Meter Boxes and on Street Lights

The Public Utilities Department (PUD) has begun the installation of the Advanced Metering Infrastructure (AMI) technology as a new tool to enhance water meter reading accuracy and efficiency, customer service and billing, and to be used by individual accounts to better manage the efficient use of water. All AMI devices shall be protected per Section 402-2, "Protection", of the 2021 Whitebook.

AMI technology allows water meters to be read electronically rather than through direct visual inspection by PUD field staff. This will assist PUD staff and customers in managing unusual consumption patterns which could indicate leaks or meter tampering on a customer's property.

Three of the main components of an AMI system are the:

A. Endpoints, see Photo 1:

Photo 1

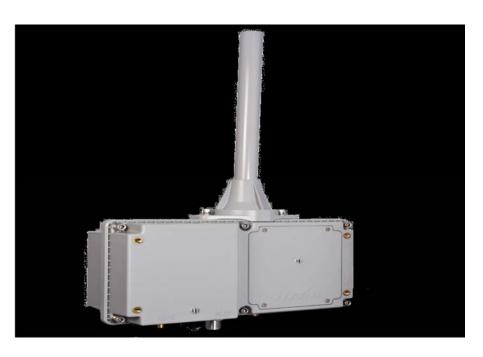


B. AMI Antenna attached to Endpoint (antenna not always required), see Photo 2:



Network Devices, see Photo 3:

Photo 3



AMI endpoints transmit meter information to the AMI system and will soon be on the vast majority of meters in San Diego. These AMI devices provide interval consumption data to the PUD's Customer Support Division. If these devices are damaged or communication is interrupted, this Division will be alerted of the situation. The endpoints are installed in water meter boxes, coffins, and vaults adjacent to the meter. A separate flat round antenna may also be installed through the meter box lid. This antenna is connected to the endpoint via cable. The following proper installation shall be implemented when removing the lid to avoid damaging the antenna, cable, and/or endpoint. Photo 4 below demonstrates a diagram of the connection:

Photo 4



The AMI device ERT/Endpoint/Transmitter shall be positioned and installed as discussed in this Appendix. If the ERT/Endpoint/Transmitter is disturbed, it shall be re-installed and returned to its original installation with the end points pointed upwards as shown below in Photo 5.

The PUD's code compliance staff will issue citations and invoices to you for any damaged AMI devices that are not re-installed as discussed in the Contract Document Photo 5 below shows a typical installation of an AMI endpoint on a water meter.

Photo 5

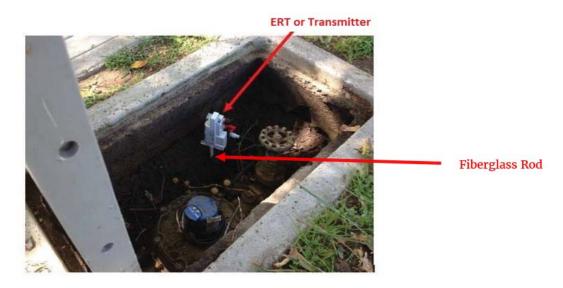


Photo 6 below is an example of disturbance that shall be avoided:

Photo 6



You are responsible when working in and around meter boxes. If you encounter these endpoints, use proper care and do not disconnect them from the registers on top of the water meter. If the lid has an antenna drilled through, do not change or tamper with the lid and inform the Resident Engineer immediately about the location of that lid. Refer to Photo 7 below:

Photo 7



Another component of the AMI system are the Network Devices. The Network Devices are strategically placed units (mainly on street light poles) that collect interval meter reading data from multiple meters for transmission to the Department Control Computer. If you come across any of these devices on street lights that will be removed or replaced (refer to Photos 8 and 9 below), notify AMI Project Manager Arwa Sayed at (619) 362-0121 immediately.

Photo 8 shows an installed network device on a street light. On the back of each Network Device is a sticker with contact information. See Photo 9. **Call PUD Water Emergency Repairs at 619-515-3525 if your work will impact these street lights.** These are assets that belong to the City of San Diego and you shall be responsible for any costs of disruption of this network.

Photo 8



Network Device

Photo 9



If you encounter any bad installations, disconnected/broken/buried endpoints, or inadvertently damage any AMI devices or cables, notify the Resident Engineer immediately. The Resident Engineer will then immediately contact the AMI Project Manager, Arwa Sayed, at (619) 362-0121.

APPENDIX H

HAZARDOUS WASTE LABEL/FORM

STATE AND FEDERAL LAW PROHIBITS IMPROPER DISPOSAL IF FOUND, CONTACT THE NEAREST POLICE, OR PUBLIC SAFETY AUTHORITY, OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY OR THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES GENERATOR NAME __ ADDRESS STATE MANIFEST DOCUMENT NO. ACCUMULATION START DATE WASTE NO. .. CA WASTE NO. ___ CONTENTS, COMPOSITION . PROPER DOT SHIPPING NAME TECHNICAL NAME (S) UNINA NO. WITH PREFIX ... O SOLID O LIQUID O CORROSSO O FLAMMABLE ☐ TOXIC O REACTIVE O OTHER . CONTAINS HAZARDOUS OR TOXIC WASTES

INCIDENT/RELEASE ASSESSMENT FORM 1

If you have an emergency, Call 911

Handlers of hazardous materials are required to report releases. The following is a tool to be used for assessing if a release is reportable. Additionally, a non-reportable release incident form is provided to document why a release is not reported (see back).

Que	estions for Incident Assessment:	YES	NO
1.	Was anyone killed or injured, or did they require medical care or admitted to a hospital for observation?		
2.	Did anyone, other than employees in the immediate area of the release, evacuate?		
3.	Did the release cause off-site damage to public or private property?		
4.	Is the release greater than or equal to a reportable quantity (RQ)?		
5.	Was there an uncontrolled or unpermitted release to the air?		
6.	Did an uncontrolled or unpermitted release escape secondary containment, or extend into any sewers, storm water conveyance systems, utility vaults and conduits, wetlands, waterways, public roads, or off site?		
7.	Will control, containment, decontamination, and/or clean up require the assistance of federal, state, county, or municipal response elements?		
8.	Was the release or threatened release involving an unknown material or contains an unknown hazardous constituent?		
9.	Is the incident a threatened release (a condition creating a substantial probability of harm that requires immediate action to prevent, reduce, or mitigate damages to persons, property, or the environment)?		
10.	Is there an increased potential for secondary effects including fire, explosion, line rupture, equipment failure, or other outcomes that may endanger or cause exposure to employees, the general public, or the environment?		

If the answer is YES to any of the above questions – report the release to the California Office of Emergency Services at 800-852-7550 and the local CUPA daytime: (619) 338-2284, after hours: (858) 565-5255. Note: other state and federal agencies may require notification depending on the circumstances.

If all answers are NO, complete a Non Reportable Release Incident Form (page 2 of 2) and keep readily available. Documenting why a "no" response was made to each question will serve useful in the event questions are asked in the future, and to justify not reporting to an outside regulatory agency.

If in doubt, report the release.

5-02-08

^{*}Call 911 in an emergency*

¹ This document is a guide for accessing when hazardous materials release reporting is required by Chapter 6.95 of the California Health and Safety Code. It does not replace good judgment, Chapter 6.95, or other state or federal release reporting requirements.

NON REPORTABLE RELEASE INCIDENT FORM

1. RELEASE AND RESPONSE DES	CRIFTION	Incident #					
Date/Time Discovered	Date/Time Discharge	Discharge Stopped ☐ Yes ☐ No					
Incident Date / Time:							
Incident Business / Site Name:							
Incident Address:							
Other Locators (Bldg, Room, Oil Field, I							
Please describe the incident and indicate	specific causes and area affected. P	Photos Attached?:					
Indicate actions to be taken to prevent sin	nilar releases from occurring in the f	uture.					
2. ADMINISTRATIVE INFORMAT	ION						
Supervisor in charge at time of incident:		Phone:					
Contact Person:		Phone:					
2. CHEMICAL INCODMATION							
3. CHEMICAL INFORMATION Chemical							
Chemical	Quantity	\Box GAL \Box LBS \Box FT ³					
Chemical							
Chemical	Quantity	GAL LBS FT ³					
Chemical	Quantity	\square GAL \square LBS \square FT ³					
Clean-Up Procedures & Timeline:							
Completed By:	Phone:						
Print Name:	Title:						

EMERGENCY RELEASE FOLLOW - UP NOTICE REPORTING FORM

,	Δ	BUSINESS NAME FACILITY EMERGENCY CONTACT & PHONE NUMBER () -
ı	3	INCIDENT MO DAY YR OES OES OES NOTIFIED (use 24 hr time) CONTROL NO.
(3	INCIDENT ADDRESS LOCATION CITY/COMMUNITY COUNTY ZIP
		CHEMICAL OR TRADE NAME (print or type) CAS Number
		CHECK IF CHEMICAL IS LISTED IN 40 CFR 355, APPENDIX A CHECK IF RELEASE REQUIRES NOTIFI - CATION UNDER 42 U.S.C. Section 9603 (a)
		PHYSICAL STATE CONTAINED PHYSICAL STATE RELEASED QUANTITY RELEASED SOLID LIQUID GAS
		ENVIRONMENTAL CONTAMINATION TIME OF RELEASE DURATION OF RELEASE —DAYS —HOURS—MINUTES
		ACTIONS TAKEN
ı		
L		
		KNOWN OR ANTICIPATED HEALTH EFFECTS (Use the comments section for addition information) ACUTE OR IMMEDIATE (explain)
	- 88	CHRONIC OR DELAYED (explain)
		NOTKNOWN (explain)
		ADVICE REGARDING MEDICAL ATTENTION NECESSARY FOR EXPOSED INDIVIDUALS
 	7	
		COMMENTS (INDICATE SECTION (A - G) AND ITEM WITH COMMENTS OR ADDITIONAL INFORMATION)
	- 8	
		CERTIFICATION: Loorlife under penelty of law that I have personally experience and I am familiar with the information
		CERTIFICATION: I certify under penalty of law that I have personally examined and I am familiar with the information sub mitted and believe the sub mitted information is true, accurate, and complete. REPORTING FACILITY REPRESENTATIVE (print or type)
		SIGNATURE OF REPORTING FACILITY REPRESENTATIVE DATE:

EMERGENCY RELEASE FOLLOW-UP NOTICE REPORTING FORM INSTRUCTIONS

GENERAL INFORMATION:

Chapter 6.95 of Division 20 of the California Health and Safety Code requires that written emergency release follow-up notices prepared pursuant to 42 U.S.C. § 11004, be submitted using this reporting form. Non-permitted releases of reportable quantities of Extremely Hazardous Substances (listed in 40 CFR 355, appendix A) or of chemicals that require release reporting under section 103(a) of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 [42 U.S.C. § 9603(a)] must be reported on the form, as soon as practicable, but no later than 30 days, following a release. The written follow-up report is required in addition to the verbal notification.

BASIC INSTRUCTIONS:

- The form, when filled out, reports follow-up information required by 42 U.S.C § 11004. Ensure that all information requested by the form is provided as completely as possible.
- If the incident involves reportable releases of more than one chemical, prepare one report form for each chemical released.
- If the incident involves a series of separate releases of chemical(s) at different times, the releases should be reported on separate reporting forms.

SPECIFIC INSTRUCTIONS:

Block A: Enter the name of the business and the name and phone number of a contact person who can provide detailed facility information concerning the release.

Block B: Enter the date of the incident and the time that verbal notification was made to OES. The OES control number is provided to the caller by OES at the time verbal notification is made. Enter this control number in the space provided.

Block C: Provide information pertaining to the location where the release occurred. Include the street address, the city or community, the county and the zip code.

Block D: Provide information concerning the specific chemical that was released. Include the chemical or trade name and the Chemical Abstract Service (CAS) number. Check all categories that apply. Provide best available information on quantity, time and duration of the release.

Block E: Indicate all actions taken to respond to and contain the release as specified in 42 U.S.C. § 11004(c).

Block F: Check the categories that apply to the health effects that occurred or could result from the release. Provide an explanation or description of the effects in the space provided. Use Block H for additional comments/information if necessary to meet requirements specified in 42 U.S.C. § 11004(c).

Block G: Include information on the type of medical attention required for exposure to the chemical released. Indicate when and how this information was made available to individuals exposed and to medical personnel, if appropriate for the incident, as specified in 42 U.S.C. § 11004(c).

Block H: List any additional pertinent information.

Block I: Print or type the name of the facility representative submitting the report. Include the official signature and the date that the form was prepared.

MAIL THE COMPLETED REPORT TO:

State Emergency Response Commission (SERC) Attn: Section 304 Reports Hazardous Materials Unit 3650 Schriever Avenue Mather, CA 95655

NOTE: Authority cited: Sections 25503, 25503.1 and 25507.1, Health and Safety Code. Reference: Sections 25503(b)(4), 25503.1, 25507.1, 25518 and 25520, Health and Safety Code.

APPENDIX I

SWPPP CONSTRUCTION BPM MAINTENANCE LOG

SWPPP Construction BMP Maintenance Log

Examples of construction BMP maintenance activites include but are not limited to tasks listed below. The contractor is ultimately responsible for compliance with the Storm Water Standards Manual and/or the Construction General Permit, and for ensuring all BMPs function per manufacturer's specifications. Use the attached log to schedule and document maintenance activities. The log shall be kept with the project SWPPP document at all times.

Construction BMP Maintenance Acitivities

- Maintain stabilized construction entrances/exits
- O Redress gravel/rock to full coverage and remove any sediment accumulation
- Remove and replace geotextile/compost blanket/plastic with holes or tears
- O Redress and restabilize erosion or rilling greater than 1-inch deep
- Reapply hydraulic stabilization products to full coverage
- Remove and replace silt fence/fiber roll/gravel bags/etc. with holes or tears
- o Reinstall or replace silt fence/fiber roll/etc. with sags
- Remove sediment accumulation from perimeter controls
- O Remove sediment accumulation from storm drain inlet protection and check dams
- Remove sediment accumulation from energy dissipators
- Repair or remove any vehicle/equipment that leaks
- o Remove any accumulation in drip pans or containment
- o Empty concrete washouts when they reach 75% capacity
- o Empty waste disposal containers when they reach 95% capacity

Construction BMP Maintenance Log

Project Title: WBS/IO No: WDID:

Scheduled Date/Time	Completion Date/Time	Location	Maintenance Tasks Performed	Logged By

ATTACHMENT F

RESERVED

ATTACHMENT G

EVALUATION AND SELECTION CRITERIA

EVALUATION AND SELECTION CRITERIA

Proposals will be ranked according to the criteria described below:

1. Proposer Exceptions to this RFP – Pass / Fail

If the Proposer takes exception to any portion of the contract terms, the Proposer must identify and explain to the City in writing the basis for the exception. The Proposer must submit any claimed exception a minimum of 10 calendar days prior to the due date for submission of Proposals. Exceptions taken after the submission period for this RFP may be cause for rejection of the Proposal as being non-responsive. Any proposed exceptions which the City determines to be material deviations from the requirements of this RFP may render a proposal non-responsive.

2. Summary of Proposal (5 Points Max)

2.1. Each Proposer must submit a one to two page summary of its Proposal.

3. Project Team (5 Points Max)

- 3.1. Describe the proposed management plan for this Project. Describe the qualifications of key proposed construction and technical personnel, and subcontractors, from applicable fields including the following:
 - 3.1.1. Civil
 - 3.1.2. Architectural
 - 3.1.3. Structural
 - 3.1.4. Mechanical
 - 3.1.5. Plumbing
 - 3.1.6. Electrical
 - 3.1.7. Instrumentation and Controls
 - 3.1.8. Environmental
 - 3.1.9. Geotechnical

4. Technical Approach and Design Concept (30 Points Max)

4.1. Describe in detail the proposed design concept for this Project. Include detailed descriptions, conceptual design drawings, schematics, a list of major equipment, and any other information deemed necessary to allow the City to make an informed evaluation of the Proposer's technical approach. The completeness and technical merit of the design concept will be evaluated.

- 4.1.1. The City will select a Proposer based on technical criteria and construction of the Organics Processing Facility per the scope shown in Attachment 'A' and the requirements of this contract. The Work and Services required of the Proposer include those during design, construction, and startup of the Project. The Proposer shall provide all management, supervision, labor, services, temporary services, equipment, tools, supplies, and any other item of every kind and description required for the complete design and construction, of the Project and additive alternate, as described in Attachment 'A'.
- 4.1.2. Proposed Design Schedule : Outline the proposed design schedule, including sequencing of each major design components and proposed durations.
- 4.1.3. A complete breakout of pricing for all elements of the proposed project.

4. Construction Plan (25 Points Max)

- 4.1. Describe the proposed construction plan for this Project, including the following, at a minimum:
 - 4.1.1. Construction approach and methods
 - 4.1.2. Plan for operation of existing facility during construction and relocation
 - 4.1.3. Plan for phasing of construction activities
 - 4.1.4. General plan for functional testing and start-up.
 - 4.1.5. Proposed safety program
 - 4.1.6. Proposed emergency response plan
 - 4.1.7. Proposed construction schedule
 - 4.1.8. Traffic Control Management
 - 4.1.9. Community Impact

5. Equal Opportunity Contracting Program (25 Points Max)

- 5.1. Failure to submit the required EOCP information will result in Proposal being determined as **non-responsive**.
- 5.2. Subcontractor Documentation
 - 5.2.1. The points will be awarded according to the chart below, based upon actual subcontract award amounts, as set forth in the price proposals.

	ОИТСОМЕ	MAXIMUM POSSIBLE POINTS				
1	5% - 9% participation SLBE, ELBE or DVBE	5				
2	10%-14%participation SLBE, ELBE or DVBE	10				
3	15%-19% participation SLBE, ELBE or DVBE	15				
4	20%-24% participation SLBE, ELBE or DVBE	20				
5	25% participation SLBE, ELBE or DVBE	25				
	In no case the points shall exceed 25.					

6. Presentation and Interview (5 Points Max)

5.1 Proposers shall provide an oral presentation and interview.

7. Reference Checks (5 Points Max)

7.1 Proposers shall provide references from three completed projects similar in nature.

TOTAL POINTS: 100

8. Review of Technical Proposal

- 8.1. Following the receipt of the Technical Proposal, the City anticipates allotting 2 weeks for review of the Technical Proposals.
- 8.2. Subsequent to receipt, the City will provide written notice of the schedule for technical presentations. The purpose of the presentations is to allow the Panel to ask questions and to seek clarifications about the Proposal. It also provides an opportunity for the Design-Builders to elaborate on and highlight significant parts of their Proposals. This schedule will be on a random draw basis and has no bearing on the potential for award or other significance.
 - 8.2.1. Interviews will consist of thirty (30) minute presentations by each Design-Builder; and (30) minutes for questions and answers. The presentations shall be given by the Design-Builders' key personnel who will be continuously involved on site or in San Diego in proportion to their level of involvement.
 - 8.2.2. The Design-Builders are responsible for bringing any and all equipment and materials that are required for the presentation. The City will not provide any equipment or materials for presentations.

9. Final Selection Based on Weighted Criteria

- 9.1 Based on the Design-Builders' Proposals and any follow-up presentations, and using the Project's Evaluation Criteria, the Panel will continue to rank the Design-Builder's Proposals by determining an overall score which shall be calculated as follows:
- 9.2 A maximum of 40 points will be assigned for the Contract Price as proposed, including additive alternate. The lowest total Contract Price of all the Proposals that meet the requirements of this RFP will receive the maximum assigned points to this category. The other Price Proposals will be scored based on how much higher their total Contract Prices compare to the lowest:

- 9.3 A maximum of 60 points will be assigned for the qualitative criteria described in the RFP. All Proposals shall receive scores based on 40 times the average of the composite ratings provided by the Panel.
- 9.4 The Selected Design-Builder will be the team with the highest total score earned. Design-Builders will be notified in writing of the City's final decision.
- 9.5 For example, if the lowest total Contract Price of all proposals is \$100, that Proposal would receive the maximum allowable points for the price category. If the total Contract Price of another proposal is \$105 and the maximum allowable points is 80 points, then that Proposal would receive (1– ((105–100)/100) x 80 = 76 points, or 95% of the maximum points. The lowest score a Proposal can receive for this category is zero points the score cannot be a negative number. The below example using the same 80/20 split illustrates the calculation outcomes with Firm A winning the competition even though Firm A did not have the highest rated proposal or the lowest price:

Avg. Composite Rating	Qualitative Score (20Max)	Price Proposal	Price Score (80 Max)	Total Score (100 Max)
85.00	17.00	\$105	76.00	93.00
88.00	17.60	\$130	56.00	73.60
50.00	14.60	\$100	80.00	90.00
	85.00 88.00	Rating (20Max) 85.00 17.00 88.00 17.60	Rating (20Max) 85.00 17.00 \$105 88.00 17.60 \$130	Rating (20Max) (80 Max) 85.00 17.00 \$105 76.00 88.00 17.60 \$130 56.00

Note: All figures will be rounded off to two decimal places.

ATTACHMENT H

PRICE FORMS

PRICE PROPOSAL FORMS

The Design-Builder agrees to the design and construction of **Organics Processing Facility**, for the City of San Diego, in accordance with these contract documents for the lump sum price listed below. The Design-Builder guarantees the proposed prices for a period of 120 Days from the date Proposals are due. The duration of the price guarantee may be extended as required by mutual consent.

Item No.	NAICS CODE	Description	Quantity	D*	Unit	Unit Price	Extension		
	BASE PROPOSAL								
1	524126	Bonds (Payment and Performance)	1		LS		\$ 425,000.00		
2	541330	Engineering and Design Services	1	D	LS		\$ 4,850,000.00		
3	236220	Construction	1		LS		\$ 40,325,000		
4	532490	Equipment	1		LS		\$ 11,500,000.00		
5	236220	Building Permit (EOC Type I)	1		AL		\$224,000		
6		City Contingency (EOC Type II)	1		AL		\$5,000,000		
7	541330	SWPPP Development	1	D	LS		\$ 5000.00		
8	237310	SWPPP Implementation	1		LS		\$ 150,000.00		
9	541330	SWPPP Permit Fee (EOC Type I)	1		AL		\$4,000		
10	541370	Survey Services	1		LS		\$ 200,000.00		
	TOTAL DESIGN-BUILD BASE PROPOSAL (ITEMS NO 1 THROUGH 10, INCLUSIVE):								

	ADDITIVE ALTERNATE A							
1	541330	Engineering and Design Services	1	D	LS	\$ 50,000.00		
2	236220	Construction	1		LS	\$ 4,500,000.00		
3	532490	Equipment	1		LS	\$ 10,000,000.00		
TOTAL DESIGN-BUILD ADDITIVE ALTERNATE A:								
TOTAL DESIGN-BUILD BASE PROPOSAL (ITEMS 1 THROUGH 10) PLUS ADDITIVE ALTERNATE A (ITEMS 1 THROUGH 3), INCLUSIVE:						JGH 3), INCLUSIVE: \$ 77,233,000.00		

* Design Element (For City Use)

Total Price For Design-Build Proposal, (items 1 through 10, plus Additive Alternate A (Items 1 though 3) amount written in words:

Design-Builder:

Sukut Construction, LLC

Title:

Vice President

Signature:

Eddie Juarez

The names of all persons interested in the foregoing proposal as principals are as follows:

See Attached LLC Action Board

IMPORTANT NOTICE: If Design-Builder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Design-Builder or other interested person is an individual, state first and last names in full.

NOTES:

- A. The Contract Price to be used in the selection process as described in Attachment G of the RFP will be determined by the Base Proposal plus all Alternates.
- B. After the selected Design-Builder has been determined, the City may, at its sole discretion, award the contract for the Base Proposal alone or for the Base Proposal plus one or more alternates.
- C. Proposals shall not contain any recapitulation of the Work. Conditional Proposals may be rejected as being **non-responsive**. Alternative proposals will not be considered unless called for.
- D. Subcontractors' License Numbers must be filled in. Failure to provide the information specified may deem the bidder **non-responsive**.
- E. Blank spaces must be filled in. The Design-Builder's failure to submit a price may render the Proposal non-responsive and ineligible for award.
- F. Unit prices shall be entered for all unit price items. Unit prices shall not exceed two (2) decimal places. If the Unit prices entered exceed two (2) decimal places, the City will only use the first two digits after the decimal points without rounding up or down.
- G. All extensions of the unit prices bid will be subject to verification by the City. In the case of conflict between the Product of the Quantity x Unit Price and the written Extension, the Product shall govern.
- H. In the case of conflict, between the sum of the Extensions and the Bid Total, the sum of the Extensions shall govern.

SUKUT CONSTRUCTION, LLC

SPECIAL MEETING OF THE BOARD OF DIRECTORS ELECTION OF OFFICERS

A telephonic meeting of the Board of Directors of Sukut Construction, LLC (the "Company") was held at 4010 West Chandler Avenue, in the City of Santa Ana, State of California, on January 11, 2022 at 11:00 a.m.

Present at the meeting were Don Barnes, Eddie Juarez, Mike Crawford, Mike Ortiz, Mike Zanaboni, Steve Yurosek, and Oren Post, constituting the full membership of the Board. Mike Crawford acted as the Chairperson and Oren Post acted as the Secretary of the meeting.

The Board approved the ability of the below officers to sign contracts on the Company's behalf. This approval is effective immediately and their individual ability to bind the Company to such contracts shall remain in effect until such time as respective successors are chosen by the Board.

Mike Crawford	Chairman
Lawrence Damore	Vice President
Eddie Juarez	Vice President
Eric Mauldin	Vice President
Nick Osborne	Vice President
Oren Post	Chief Financial Officer and Company Secretary
Matt Williams	N. CA Area Manager
Cravia Vargools	CEO Pr Dussidant

Matt Williams N. CA Area Manag Steve Yurosek CEO & President Wike Zanaboni Vice President

Votes being duly cast by all directors, the Chairman announced that the aforementioned individuals had been unanimously elected to the office indicated next to their names to assume the duties and responsibilities as established in the By-Laws.

Dated: January 11, 2022

Oren Post

Company Secretary

SUKUT CONSTRUCTION, LLC

DIRECTORS RESOLUTION AUTHORIZING OFFICERS AS SIGNATORIES TO CONSTRUCTION CONTRACTS

RESOLVED, that the individuals listed below are authorized and empowered to enter into construction contracts for and on behalf of this Company.

RESOLVED FURTHER, that all contracts for the performance of work shall be valid and binding on the Company only when signed by the individuals listed below.

RESOLVED FURTHER, that the individuals listed below are elected, qualified and acting officers of the Company, holding on the date set forth herein the title indicated next to their name.

Mike Crawford	Chairman	Mohl Of
Lawrence Damore	Vice President	In Clan
Eddie Juarez	Vice President	
Eric Mauldin	Vice President	fred to
Nick Osborne	Vice President	Hick Orb
Oren Post	CFO & Company Secretary	Me
Matt Williams	N. CA Area Manager	May 1. lyle
Steve Yurosek	CEO & President	AUM
Mike Zanaboni	Vice President	

Dated: January 11, 2022

Oren Post Company Secretary

TO BE INCLUDED WITH THE PRICE PROPOSAL ONLY

In accordance with the requirements of the "Subletting and Subcontracting Fair Practices Act", Section 4100, of the Public Contract Code (PCC), The Design-Builder is to list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of0.5% of the Design-Builder's total Bid. The Design-Builder is to list below the portion of the work which will be done by each Subcontractor. The Design-Builder is to list only one Subcontractor for each portion of the Work. The **DOLLAR VALUE** of the total Bid to be performed by the Subcontractor is to be stated for all Subcontractors listed. Failure to comply with the listing of the Subcontractors as specified may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, WoSB, SDB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR Registration Number	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Hankins Construction Inc. Address: 1314 Walnut St. City: Ramona State: CA Zip: 92065 Phone: 760.789.4343 Email: pavnldy@hankins.com	Constructor	1000006927	916516	AC PAVE	\$2,558,200.00	ELBE	City of San Diego	
Name: Rancho Land Co. Addres 4:06 16th St. Suite 102 City: Ramona State: CA Zip: 92065 Phone: 760.788.1530 Email: tlynch@rancholandco.com	Constructor	1000064840	N/A Professional Service	Survey	\$50,000.00	SLBE	City of San Diego	

① As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.

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TO BE INCLUDED WITH THE PRICE PROPOSAL ONLY

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NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR Registration Number	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: In-Line Fence & Railing Co. Inc Address P.O. Box 2637 City: Ramona State: CA Zip: 92065 Phone: 760.789.0282 Email: david@inlinerail.com	Constructor	1000002605	769516	Fence	\$458,429.00	SLBE	City of San Diego	
Name: Accent Engineering & Construction Addres \$0679 Westview Pkwy City: San Diego State: CA Zip: 92126 Phone: 619.790.4503 Email: rthompson@accenteci.com	Constructor	PW-LR- 1000638134	980581	Concrete	\$4,083,500	ELBE Ci	ty of San Diego	

① As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

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Name: Suffolk Construction Address 1615 Murray Canyon RD Suite 1000 City: San Diego State: CA Zip: 92108 Phone: 619.906.2871 Email: jaloh@suffolk.com	Constructor	1000019603	751099	Electrical	\$1,500,000.00			
Name: Cosco Fire Protection Address:4990 Greencraig Lane City: San Diego State: CA Zip: 92123 Phone: 858.444.2000 Email: eajero@cscofire.com	Constructor	1000002305	577621 Suppression	Fire	\$88,707.00			

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Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
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State of California	CA	U.S. Small Business Administration	SBA

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Name: Amber Steel Co. Address: 312 S. Willow Ave City: Rialto State: CA Zip: 92376 Phone: 909.874.2213 Email: ambersteelplans@gmail.com	Constructor	1000000630	268566	Rebar	\$913.000			
Name: Del La Fuente Construction, Inc. Address 22W 35th St. Suite 207 City: National City State: CA Zip: Phone: 619.512.5505 Email: admin@dlfci.com	Constructor	1000043346	919666	Building	\$2,133,000.00			

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Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
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Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

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State of California's Department of General Services	CADoGS	City of Los Angeles	LA
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Name: Tetra Tech BAS Address21700 Copley Drive, Suite 200 City: Diamond Bar State: CA Zip: 91765 Phone: 909.860.7777 Email: greg.saul@tetratech.com) Designer	1000001425	572017	Design	\$ 3,875,403			
Name: K Company Address: 1314 Darby St. City: Spring Valley State: CA Zip: 91977 Phone: 760.525.8416 Email: daleatkco@live.com	Constructor	N/A	N/A	Trucking	\$1,650,000	ELBE	City of SD	

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Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
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State of California	CA	U.S. Small Business Administration	SBA

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Name: GMAT Inc Address 12401 South LA Cadena Dr City: Colton State: CA Zip: 92324 Phone: 909.783.3131 Email: ryan@iohd.com	Constructor	1000017098	492369	Overhead Door	\$980,100.00	DVBE / SBE	DGS	
Name: Address: City: State: Zip: Phone: Email:								

① As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

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California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

DESIGN-BUILD ADDITIVE/DEDUCTIVE ALTERNATE LIST OF SUBCONTRACTORS

TO BE INCLUDED WITH THE PRICE PROPOSAL ONLY

The Design-Builder is to list all Subcontractors described in the Design-Builder's Base Bid whose percentage of work will increase or decrease if alternates are selected for award. The Design-Builder is to also list additional Subcontractors not described in the Design-Builder's Base Bid who, as a result of the alternates, will perform work or labor, or render services, or specially fabricate and install a portion [type] of work or improvements in an amount in excess of 0.5%. Failure to comply with this requirement may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

ADDITIVE/ DEDUCTIVE ALTERNATE	NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR Registration Number	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Alt2	NameAccent Engineering & Construction Address Open Plant Pla	Constructor	1000638134	980581	Concrete	\$3,057,500	ELBE	City of San Diego	
Alt 2	Name: Amber Steel Co. Address: 312 S. Willow Ave City: Rialto State CA Zip: 92376 Phone: 909.874.2213 Email: ambersteelplans@gmail.com		1000000630	268566	Rebar	\$690,600.0	00		

①As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

1	propriate, besign bander shan identity subcontractor as one	e or the ronowing an	id shall melade a valid proof of certification (except for OBE, SEBE and E	
	Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
	Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
	Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
	Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
	Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
	Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

DESIGN-BUILD ADDITIVE/DEDUCTIVE ALTERNATE LIST OF SUBCONTRACTORS

TO BE INCLUDED WITH THE PRICE PROPOSAL ONLY

The Design-Builder is to list all Subcontractors described in the Design-Builder's Base Bid whose percentage of work will increase or decrease if alternates are selected for award. The Design-Builder is to also list additional Subcontractors not described in the Design-Builder's Base Bid who, as a result of the alternates, will perform work or labor, or render services, or specially fabricate and install a portion [type] of work or improvements in an amount in excess of 0.5%. Failure to comply with this requirement may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

ADDITIVE/ DEDUCTIVE ALTERNATE	NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR Registration Number	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Alt 2	Name: Suffolk Construction Address1615 Murray Canyon RD Suite 10 City: San Diego State: CA Zip: 92108 Phone: 619.906.287 Email: jaloh@suffolk.com	Constructor	1000019603	751099	Electrical	\$500,000			
Alt 1	Name: Tetra Tech BAS Address21700 Copley Drive, Suite 2 City: Diamond Bar State: CA Zip: 91765 Phone: 909.860.777 Email:	Designer	1000001425	572017	Design	\$ 50,000			

®As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

appropriate, besign bander shan rachen, bases in according	5 5.1.c 5. c.1.c 15.1.511.1.1.5 c.1	id silan melade a vana proof of certification (except for obj., 521	2 L a a LLD L / .
Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

Organics Processing Facility

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

DESIGN-BUILD ADDITIVE/DEDUCTIVE ALTERNATE LIST OF SUBCONTRACTORS

TO BE INCLUDED WITH THE PRICE PROPOSAL ONLY

The Design-Builder is to list all Subcontractors described in the Design-Builder's Base Bid whose percentage of work will increase or decrease if alternates are selected for award. The Design-Builder is to also list additional Subcontractors not described in the Design-Builder's Base Bid who, as a result of the alternates, will perform work or labor, or render services, or specially fabricate and install a portion [type] of work or improvements in an amount in excess of 0.5%. Failure to comply with this requirement may result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder is to list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

ADDITIVE/ DEDUCTIVE ALTERNATE	NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR Registration Number	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK	DOLLAR VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Alt 4	Name: Sustainable Generation Address 10 South Poplar Street Suite 400 City: Wilmington State DE Zip: 19801 Phone: 303-699-1585 Email: brett.hoyt@sustainable-generation	Supplier			Bunker System	\$ 8,339,000			
	Name:								

®As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

DESIGN-BUILD NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

TO BE INCLUDED WITH THE PRICE PROPOSAL ONLY

For credit calculations for City-funded contracts, see Chapter 10 in The WHITEBOOK. For non-City funded contracts, refer to the Funding Agency Provisions. If no indication of the supplier, manufacturer, or non-supplier is provided, listed firm will receive no credit for purpose of calculating the Subcontractor Participation Percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIAL OR SUPPLIES	DIR Registration Number	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED®
Name: K Company Address: 1314 Darby St. City: Spring Valley State: CA Zip: 91977 Phone: 760.525.8416 Email: daleatkco@live.com	Supplier		\$ 1,608,500	Yes	No	ELBE	City of San Diego
Name: Semper Fuel LLC Address: 3130 Avenida De Portugal City: San Diego State: CA Zip: 92106 Phone: 310-600-0330 Email: ca@semperfuel.com	Fuel	N/A	\$625,000.00	Yes	No	SLBE	City of San dDiego

As appropriate, Design-Builder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

 Certified Minority Business Enterprise

WB.

WB.

Certified Woman Business Enterprise

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Vendor/Supplier is certified by:

City of San Diego	CITY	State of California Department of Transportation San Diego Regional Minority Supplier Diversity Council	CALTRANS
California Public Utilities Commission	CPUC		SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

DESIGN-BUILD NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

TO BE INCLUDED WITH THE PRICE PROPOSAL ONLY

For credit calculations for City-funded contracts, see Chapter 10 in The WHITEBOOK. For non-City funded contracts, refer to the Funding Agency Provisions. If no indication of the supplier, manufacturer, or non-supplier is provided, listed firm will receive no credit for purpose of calculating the Subcontractor Participation Percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIAL OR SUPPLIES	DIR Registration Number	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED②
Name: West River Conveyor Address: 8936 Dismal River Road City: Oakwood SMA: Zip: 24631 Phon2:76-991-4450 Email: psavage@westriverconveyors.com	Supplier		\$ 1,141,691	Yes	No		
Name: Poly Tek Address: PO Box 2232 City: Capistrano Beach State: CA Zip: 92624 Phone: 949-445-4293 Email: patrick@polyteksupply.com	Supplier	N/A	\$2,085,000	Yes	No	DVBE	DGS

①	As appropriate, Design-Builder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):						
	Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE			
	Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE			
	Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE			
	Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB			
	Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone			
	Service-Disabled Veteran Owned Small Business	SDVOSB					
2	As appropriate, Design-Builder shall indicate if Vendor/Supplier is certified by:						
	City of San Diego	CITY	State of California Department of Transportation	CALTRANS			
	California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC			

State of California CA U.S. Small Business Administration SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification.

City of Los Angeles

CADoGS

State of California's Department of General Services

LA

DESIGN-BUILD NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

TO BE INCLUDED WITH THE PRICE PROPOSAL ONLY

For credit calculations for City-funded contracts, see Chapter 10 in The WHITEBOOK. For non-City funded contracts, refer to the Funding Agency Provisions. If no indication of the supplier, manufacturer, or non-supplier is provided, listed firm will receive no credit for purpose of calculating the Subcontractor Participation Percentages.

NAME,	ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIAL OR SUPPLIES	DIR Registration Number	DOLLAR VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED②
Addres 1 : <u>10</u> City: Will Zip: 198	Istainable Generation O South Poplar Street Suite 400 Imington Stat DE B01 Phone 303-699-1585 brett.hoty@sustainable-generation.com	Bunker		\$ 6,827,000	Yes	Yes		
Address: City: Zip:	State: Phone:							
Certified Disadvantaged Business Enterprise D Other Business Enterprise O Certified Small Local Business Enterprise SI Woman-Owned Small Business W			mas one of the follo MBE DBE OBE SLBE WoSB SDVOSB	wing and shall include a valid proof of certification (except for OBE, Certified Woman Business Enterprise Certified Disabled Veteran Business Enterprise Certified Emerging Local Business Enterprise Small Disadvantaged Business HUBZone Business			e	d ELBE): WBE DVBE ELBE SDB HUBZone
2	As appropriate, Design-Builder shall indicat City of San Diego California Public Utilities Commission State of California's Department of Gene State of California	lier is certified by: CITY CPUC CADoGS CA	State of California Department of Transportation San Diego Regional Minority Supplier Diversity Council City of Los Angeles U.S. Small Business Administration				CALTRANS SRMSDC LA SBA	



Small Local Business Enterprise (SLBE) Program Certification

Hankins Construction, Inc.

Emerging Local Business Enterprise (ELBE)

General Construction

(NAICS: 237310, 238910, 238990)

Certification Number: 17HC1426

Effective: 7/19/2021 - 7/19/2023



Small Local Business Enterprise (SLBE) Program Certification

Hankins Construction, Inc.

Emerging Local Business Enterprise (ELBE)

General Construction

(NAICS: 237310, 238910, 238990)

Certification Number: 17HC1426

Effective: 7/19/2021 - 7/19/2023



Small Local Business Enterprise (SLBE) Program Certification

Rancho Land Co. DBA Rancho Land Services
Small Local Business Enterprise (SLBE)
Professional Services

(NAICS: 541990)

Certification Number: 17RL1612

Effective: 1/10/2022 - 1/10/2024





Small Local Business Enterprise (SLBE) Program Certification

In-Line Fence & Railing Company, Inc. DBA In-Line Construction, Inc.

Small Local Business Enterprise (SLBE)

Specialty Construction

(NAICS: 238990, 332323, 237310)

Certification Number: 10IN0031

Effective: 7/19/2021 - 7/19/2023



Small Local Business Enterprise (SLBE) Program Certification

Accent Engineering and Construction DBA Accent

Construction

Emerging Local Business Enterprise (ELBE)

General Construction

(NAICS: 236220, 238110, 238210, 238220)

Certification Number: 13AE0934

Effective: 8/28/2020 - 8/28/2022



Small Local Business Enterprise (SLBE) Program Certification

K Company Emerging Local Business Enterprise (ELBE) General Services

(NAICS: 484220)

Certification Number: 11KC0261 *Effective: 3/11/2022 - 3/11/2024*



Office of Small Business & DVBE Services

Certification ID: 1031299

Legal Business Name:

GMATINC

Doing Business As (DBA) Name 1:

INLAND OVERHEAD DOOR CO

Doing Business As (DBA) Name 2:

Address:

12401 LA CADENA DR

COLTON

CA 92324-3687

Email Address:

ryan@iohd.com

Business Web Page:

business web i age.

www.inlandoverheaddoor.com

Business Phone Number:

909.783.3131

Business Fax Number:

909.783.3478

Business Types:

Construction, Service

Certification Type	Status	From	То	
DVBE	Approved	03/03/2022	03/31/2024	
SB(Micro)	Approved	02/09/2022	02/29/2024	

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED! $-LOG\ IN\ at\ \underline{CaleProcure.CA.GOV}$

Questions?

Email: OSDSHELP@DGS.CA.GOV

Call OSDS Main Number: 916-375-4940

707 3rd Street, 1-400, West Sacramento, CA 95605

6/23/2020 Supplier Profile

Printed on: 6/23/2020 2:10:48 PM

To verify most current certification status go to: https://www.caleprocure.ca.gov



Office of Small Business & DVBE Services

Certification ID: 1445180

Legal Business Name: SEMPER FUEL LLC

Doing Business As (DBA) Name 1:

SEMPER FUEL

Doing Business As (DBA) Name 2:

Email Address:

ccaquatro@yahoo.com

Business Web Page:

Business Phone Number:

310/600-0330

Business Fax Number:

Address:

3703 Haines Street

Н

CA

San Diego

CA 92109

Business Types:

Non-Manufacturer

Certification Type

Status

From

To

SB(Micro)

Approved

04/22/2020

04/30/2022

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED! -LOG IN at CaleProcure.CA.GOV

> Questions? Email: OSDSHELP@DGS.CA.GOV Call OSDS Main Number: 916-375-4940 707 3rd Street, 1-400, West Sacramento, CA 95605

Printed on: 7/19/2021 7:45:59 AM

To verify most current certification status go to: https://www.caleprocure.ca.gov



Office of Small Business & DVBE Services

Certification ID: 2015113

Legal Business Name: PATRICK MICHAEL SANGI

Doing Business As (DBA) Name 1:

Poly Tek

Doing Business As (DBA) Name 2:

POLY TEK

Address:

PO BOX 2232

CAPISTRANO BEACH

CA 92624

Email Address:

patrick@polyteksupply.com

Business Web Page:

Business Phone Number:

949/445-4293

Business Fax Number:

Business Types:

Non-Manufacturer

Certification Type

Status

From

To

DVBE

Approved

05/17/2021

05/31/2023

SB(Micro)

Approved

05/17/2021

05/31/2023

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED!
-LOG IN at CaleProcure.CA.GOV

Questions?
Email: OSDSHELP@DGS.CA.GOV
Call OSDS Main Number: 916-375-4940
707 3rd Street, 1-400, West Sacramento, CA 95605



Small Local Business Enterprise (SLBE) Program Certification

K Company Emerging Local Business Enterprise (ELBE) General Services

(NAICS: 484220)

Certification Number: 11KC0261 *Effective: 3/11/2022 - 3/11/2024*

ATTACHMENT I

CERTIFICATION AND BOND

DESIGN-BUILD PROPOSAL

- 1. The undersigned The Design-Builder proposes and agrees, if this Proposal is accepted, to enter into an agreement with the City in the form included in the Contract Documents to perform the Work as specified or indicated in said Contract Documents entitled **Organics Processing Facility**.
- 2. The Design-Builder accepts all of the terms and conditions of the Contract Documents, including without limitation those in the RFP.
- 3. This Proposal will remain open for the period stated in the RFP unless otherwise required by law. The Design-Builder will enter into an agreement within the time and in the manner required in the RFP and will furnish the insurance certificates, Payment Bond, and Performance Bond required by the Contract Documents.
- 4. The Design-Builder has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality where the Work is to be performed, the legal requirements (federal, state and local laws, ordinances, rules, and regulations), and the conditions affecting cost, progress or performance of the Work and has made such independent investigations as The Design-Builder deems necessary.

To all the foregoing, and including all Proposal schedule(s) and information required of the Design-Builder contained in this Proposal Form, said The Design-Builder further agrees to complete the Work and Services required under the Contract Documents within the Contract Time stipulated in said Contract Documents, and to accept in full payment therefore the Contract Price based on the Total Proposal Price(s) named in the aforementioned Proposal schedule(s).

Dated:	
The Design Duilden	
The Design-Builder:	
By:	
	(Signature)
Title	
Title:	(Signature)

PROPOSAL

DESIGN-BUILDER'S GENERAL INFORMATION

To the City of San Diego:

Pursuant to the "Request for Proposal", specifications, and requirements on file with the City Clerk, and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the proposal is genuine and not collusive or sham; that the proposer has not directly or indirectly induced or solicited any other proposer to put in a false or sham proposal, and has not directly or indirectly colluded, conspired, connived, or agreed with any proposer or anyone else to put in a sham proposal, or that anyone shall refrain from proposing; that the proposer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the proposal price of the proposer or any other proposer, or to fix any overhead, profit, or cost element of the proposal price, or of that of any other proposer, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the proposal are true; and, further, that the proposer has not, directly or indirectly, submitted his or her proposal price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, proposal depository, or to any member or agent thereof to effectuate a collusive or sham proposal. The undersigned proposer(s) further warrants that proposer(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Proposal Documents therefore, and that by submitting said Proposal Documents as its proposal, proposer(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Proposal Documents.

IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:

(1) Name under which business is conducted		
(2) Signature (Given and surname) of proprietor _		
(3) Place of Business (Street & Number)		
(4) City and State		Zip Code
(5) Telephone No	_ Facsimile No	
(6) Email Address		
IF A PARTNERSHIP, SIGN HERE:		
(1) Name under which business is conducted		

(2)	Name of each member of partnership, indicat (limited):	e character of each partner, general or specia
(3)	Signature (Note: Signature must be made by a	general partner)
	Full Name and Character of partner	
(4)	Place of Business (Street & Number)	
(5)	City and State	Zip Code
(6)	Telephone No	Facsimile No
(7)	Email Address	
IF A CC	DRPORATION, SIGN HERE:	
(1)	Name under which business is conducted	
(2)	Signature, with official title of officer authorize	d to sign for the corporation:
	(Signature)	
	(Printed Name)	
	(Title of Officer)	
		(Impress Corporate Seal Here)
(3)	Incorporated under the laws of the State of	
(4)	Place of Business (Street & Number)	_
(5)	City and State	Zip Code
(6)	Telephone No	_ Facsimile No
(7)	Email Address	

THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:

In accordance with the "Request for Proposal", the license for the following classification(s) to perform	• •			
LICENSE CLASSIFICATION				
LICENSE NO EXPIRES,				
DEPARTMENT OF INDUSTRIAL RELATIONS (DIR) REG	SISTRATION NUMBER:			
This license classification must also be shown on th license classification on the proposal envelope may	· · ·			
TAX IDENTIFICATION NUMBER (TIN):				
E-Mail Address:				
THIS PROPOSAL MUST BE NOTARIZED BELOW:				
l certify, under penalty of perjury, that the rep Contractor's license number, classification and expi				
Signature	Title			
SUBSCRIBED AND SWORN TO BEFORE ME, THIS	, DAY OF,			
Notary Public in and for the County of	, State of			
(NOTARIAL SEAL)				

CERTIFICATIONS AND FORMS

The Proposer, by submitting its electronic proposa	ıl, agrees to and	l certifies under	penalty of p	perjury
under the laws of the State of California, that the ce	rtifications, forn	ns and affidavits	submitted	as part
of this bid are true and correct.				

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106

State of California County of San Diego

The bidder, being first duly sworn, deposes and says that he or she is authorized by the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

COVID-19 VACCINATION ORDINANCE CERTIFICATION OF COMPLIANCE

I hereby certify that I am familiar with the requirements of San Diego City Council Ordinance No. O-2022-53 Emergency Ordinance to Implement the City's Mandatory COVID-19 Vaccination Policy.

TERMS OF COMPLIANCE

The Mandatory COVID-19 Vaccination Policy, outlined in San Diego Ordinance O-21398 (Nov. 29, 2021), requires ALL City of San Diego (City) contractors, who interact with City employees while providing contracted services indoors in City facilities or while performing bargaining unit work while indoors, to be fully vaccinated against COVID-19, effective January 3, 2022, as a condition for provision or continued provision of contracted services.

- "City contractor" means a person who has contracted with the City of San Diego to provide public works, goods, services, franchise, or consultant services for or on behalf of the City, and includes a subcontractor, vendor, franchisee, consultant, or any of their respective officers, directors, shareholders, partners, managers, employees, or other individuals associated with the contractor, subcontractor, consultant, or vendor. "Person" means any natural person, firm, joint venture, joint stock company, partnership, association, club, company, corporation business trust or organization.
- 2. "Fully vaccinated" means a person has received, at least 14 days prior, either the second dose in a two-dose COVID-19 vaccine series or a single-dose COVID-19 vaccine, or otherwise meets the criteria for full vaccination against COVID-19 as stated in applicable public health guidance, orders, or law. Acceptable COVID-19 vaccines must be approved by the U.S. Food and Drug Administration (FDA) or authorized for emergency use by the FDA or the World Health Organization.
- 3. Contractors must fully comply with the City's Mandatory COVID-19 Vaccination Policy, which may include a reporting program that tracks employee vaccination status.
- 4. Contractors must certify that members of their workforce, and subcontractors regardless of tier, who work at a City facility, are fully vaccinated and that the contractor has a program to track employee compliance.
- 5. Contractors that have an Occupational Safety and Health Administration compliant testing program for members of their workforce, as a reasonable accommodation, may be considered for compliance.

Non-compliance with the City's Mandatory COVID-19 Vaccination Policy may result in termination of a contract for cause, pursuant to the City's General Terms and Provisions, Reference Standards, and the San Diego Municipal Code.

DRUG-FREE WORKPLACE

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 5-1.3, "Drug-Free Workplace", of the project specifications, and that;

This company has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the Americans With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 5-1.2, "California Building Code, California Code of Regulations Title 24 and Americans with Disabilities Act", of the project specifications, and that:

This company has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

CONTRACTOR STANDARDS - PLEDGE OF COMPLIANCE

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 5-1.4, ("Contractor Standards and Pledge of Compliance"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

EQUAL BENEFITS ORDINANCE CERTIFICATION

I declare under penalty of perjury that I am familiar with the requirements of and in compliance with the City of San Diego Municipal Code § 22.4300 regarding Equal Benefits Ordinance.

EQUAL PAY ORDINANCE CERTIFICATION

Contractor shall comply with the Equal Pay Ordinance (EPO) codified in the San Diego Municipal Code (SDMC) at section 22.4801 through 22.4809, unless compliance is not required based on an exception listed in SDMC section 22.4804.

Contractor shall require all of its subcontractors to certify compliance with the EPO in their written subcontracts.

Contractor must post a notice informing its employees of their rights under the EPO in the workplace or job site.

By signing this Contract with the City of San Diego, Contractor acknowledges the EPO requirements and pledges ongoing compliance with the requirements of SDMC Division 48, section 22.4801 et seq., throughout the duration of this Contract.

PRODUCT ENDORSEMENT

I declare under penalty of perjury that I acknowledge and agree to comply with the provisions of City of San Diego Administrative Regulation 95.65, concerning product endorsement. Any advertisement identifying or referring to the City as the user of a product or service requires the prior written approval of the City.

CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ONE BOX ONLY.

	a d	The undersigned certifies that within the past 10 years the Bidder has NOT been the subject of a complaint or pending action in a legal administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers.				
	cor dis sta	mplaint or per criminated agai	nding action in a nst its employees, s on of that complain	legal administra subcontractors, ve	ative proceed endors or supp	has been the subject of a ing alleging that Bidder bliers. A description of the taken and the applicable
	DATE OF CLAIM	LOCATION	DESCRIPTION OF CLAIM	LITIGATION (Y/N)	Status	RESOLUTION/REMEDIAL ACTION TAKEN
Contractor Name:						
Certified By Title						
			Signature		Date	

USE ADDITIONAL FORMS AS NECESSARY

Mandatory Disclosure of Business Interests Form

BIDDER/PROPOSER INFORMATION

Legal	Name	DB	A
Street Address	City	State	Zip
Contact Person,	Title	Phone	Fax

Provide the name, identity, and precise nature of the interest* of all persons who are directly or indirectly involved** in this proposed transaction (SDMC § 21.0103).

- the percentage ownership interest in a party to the transaction,
- the percentage ownership interest in any firm, corporation, or partnership that will receive funds from the transaction,
- the value of any financial interest in the transaction,
- any contingent interest in the transaction and the value of such interest should the contingency be satisfied, and
- any philanthropic, scientific, artistic, or property interest in the transaction.
- ** Directly or indirectly involved means pursuing the transaction by:
 - communicating or negotiating with City officers or employees,
 - submitting or preparing applications, bids, proposals or other documents for purposes of contracting with the City, or
 - directing or supervising the actions of persons engaged in the above activity.

Name	Title/Position
City and State of Residence	Employer (if different than Bidder/Proposer)
Interest in the transaction	

Name	Title/Position
City and State of Residence	Employer (if different than Bidder/Proposer)
Interest in the transaction	

* Use Additional Pages if Necessary *

Under penalty of perjury under the laws of the State of California, I certify that I am responsible for the completeness and accuracy of the responses contained herein, and that all information provided is true, full and complete to the best of my knowledge and belief. I agree to provide written notice to the Mayor or Designee within five (5) business days if, at any time, I learn that any portion of this Mandatory Disclosure of Business Interests Form requires an updated response. Failure to timely provide the Mayor or Designee with written notice is grounds for Contract termination.

Print Name, Title	Signature	Date

Failure to sign and submit this form with the bid/proposal shall make the bid/proposal non-responsive. In the case of an informal solicitation, the contract will not be awarded unless a signed and completed Mandatory Disclosure of Business Interests Form is submitted.

Organics Processing Facility 569 | Page

^{*} The precise nature of the interest includes:

SUBCONTRACTOR LISTING

(OTHER THAN FIRST TIER)

Pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 1725.5, by submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the California Department of Industrial Relations (DIR). **The Bidder is to list below the name, address, license number, DIR registration number of any (known tiered subcontractor)** - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract. **If none are known at this time, mark the table below with non-applicable (N/A).**

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	DIR REGISTRATION NUMBER	SUBCONTRACTOR LICENSE NUMBER	TYPE OF WORK
Name: Address: City: State: Zip: Phone: Email:				
Name:				
Name:				
Name:				

** USE ADDITIONAL FORMS AS NECESSARY **

AFFIDAVIT OF DISPOSAL

(To be submitted upon completion of Construction pursuant to the contracts Certificate of Completion)

WHEREAS, on theinto and executed a contra				_ the undersigned entered
		8-, - · · · · · · · · · · · · · · · ·	,	
		rocessing Facili oject Title)	ty	
WHEREAS, the specification	on of said contract require g from this project have	s the Contractor been disposed	to affirm that "a	AP No. (WBS) L-17000.2 and ill brush, trash, debris, and nner"; and WHEREAS , said
	undersigned Contractor, o	does hereby affi		said Contractor under the s materials as described in
and that they have been d	isposed of according to all	applicable laws	and regulations.	
Dated this	DAY OF			
By:Contractor				
ATTEST: State of	County of			
County and State, duly cor	nmissioned and sworn, pe	rsonally appear	ed	ary Public in and for said ne foregoing Release, and cuted the said Release.
Notary Public in and for sa				
Trotally Fability in an a 181 sa	ia county and state			

ATTACHMENT J

DESIGN-BUILD AGREEMENT

DESIGN-BUILD AGREEMENT

This Phase-Funded Design-Build agreement [Contract] is made and entered into this 19th day of December 2022, by and between The City of San Diego [City], a municipal corporation, and Sukut Construction, LLC [Design-Builder], for the purpose of designing and constructing the Organics Processing Facility (Project) in the total amount Seventy Seven Million Two Hundred Thirty Three Thousand Dollars and Zero Cents (\$77,233,000,000), which is comprised of the Base Proposal plus Alternate A, consisting of an amount not to exceed \$17,358,000.00 for Phase 1; \$5,000,000.00 for Phase 2; \$50,000.00 for Phase 3; \$5,000,000.00 for Phase 4A; \$35,325,000.00 for Phase 4B and \$14,500,000.00 for Phase 5. The City and Design-Builder are referred to herein as the "Parties".

RECITALS

- A. The City desires to construct the Project located in the City of San Diego, California.
- B. The City desires to contract with a single entity for design and construction of the Project, as set forth in this Agreement.
- C. The City has Issued Request for Proposal (RFP) number **K-22-2049-DB1-3** for **Organics Processing Facility,** pursuant to which the City solicited Proposals from design-build teams to design, rehabilitate, and build the Project.
- D. In accordance with City's RFP, Design-Builder submitted a Proposal for the Project and is prepared to enter into this Agreement.
- E. The City wishes to construct this Project on a Phase- Funded basis. In accordance with Whitebook section 7-3.10, the City is only obligated to pay for phase I; Design-Builder cannot begin, nor is the City financially liable for Phase II, unless and until Design-Builder is issued a Notice to Proceed for Phase II by the City.
- F. The City has selected the Design-Builder to perform, either directly or pursuant to Subcontracts, hereinafter defined, the design, engineering, and construction services set forth in this Agreement and the Contract Documents, hereinafter defined.
- G. The Design-Builder is ready, willing, and able to perform the services required in accordance with the terms and conditions of this Agreement.
- H. Execution of this Agreement by the Design-Builder is a representation that the Design-Builder has visited the Site, become familiar with the local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

In consideration of the above recitals and the mutual covenants and conditions set forth herein, and for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the Parties hereby set forth their mutual covenants and understandings as follows.

AGREEMENT

- A. <u>Recitals and Attachments</u>. The above referenced recitals are true and correct and are incorporated into this Agreement by this reference. All attachments referenced in this Agreement section are incorporated into the Contract by this reference.
- B. <u>Contract Performance</u>. The Design-Builder shall design and construct the Project in a good and workmanlike manner to the satisfaction of the City, lien free and in compliance with the

Contract Documents and within the time specified, in return for timely payment by the City in accordance with the Contract.

- C. <u>Attachments</u>. All attachments e.g., Reference Standards in the RFP, Supplementary Special Provisions (SSP), the attached Faithful Performance and Payment Bonds, Agreement and Supplemental Agreements, and the attached Proposal included in the Proposal documents by the Contractor are incorporated into the Contract by this reference.
- D. Contract Documents. This Contract incorporates the 2018 Edition of the Standard Specifications for Public Works Construction [The GREENBOOK], including amendments set forth in the 2021 edition of the San Diego Specifications for Public Works Construction [The WHITEBOOK]. The Contract Documents shall include the items mentioned in section 3-7.2 of The WHITEBOOK and shall follow that order of precedence.

IN WITNESS WHEREOF, this Agreement is signed by the City of San Diego, acting by and through its Mayor or designee, pursuant to Resolution No. **R - 310703** authorizing such execution.

designee, pursuant to Resolution No. <u>R - 310703</u> authorizing such execution.				
THE CITY OF SAN DIEGO	APPROVED AS TO FORM			
	Mara W. Elliott, City Attorney			
ву	By Tuluk M. Outhel			
Print Name: <u>Matthew Vespi</u> Chief Financial Officer	Print Name: FREDERICK M. ORTLIEB Deputy City Attorney			
Date: 11/9/2022	Date: 12 19 2022			
CONTRACTOR				
Ву				
Print Name: Eddie Juane 2				
Title: Vice President Operation	5			
6.7 22-				

City of San Diego License No.: B2015046469

State Contractor's License No.: 985106

ATTACHMENT K

PERFORMANCE BOND, LABOR, AND MATERIALMEN'S BOND

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND

FAITHFUL PERFORMANCE BOND AND LABOR AND MATERIALMEN'S BOND:

Sukut Construction, LLC	a	corporation,	as	principa	l, a	and
Liberty Mutual Insurance Company	a	corporation	auth	norized	to	do
business in the State of California, as Surety, hereby obligate the	mse	elves, their suc	cess	ors and a	ssig	gns,
jointly and severally, to The City of San Diego a municipal corp	ora	tion in the sur	n of	Seventy	Sev	<u>ven</u>
Million Two Hundred Thirty Three Thousand Dollars and	Zer	o Cents (\$77	.233.	000.00)	or	the
faithful performance of the annexed contract, and in the s	um	of Seventy	<u>Seve</u>	n Millio	n_T	:wo
Hundred Thirty Three Thousand Dollars and Zero Cents	(\$7	77,233,000.00	for	the ber	efit	t of
laborers and materialmen designated below.						

Conditions:

If the Principal shall faithfully perform the annexed contract **Organics Processing Facility**, RFP No. **K-22-2049-DB1-3-C** with the City of San Diego, California, then the obligation herein with respect to a faithful performance shall be void; otherwise it shall remain in full force.

If the Principal shall promptly pay all persons, firms and corporations furnishing materials for or performing labor in the execution of this contract, and shall pay all amounts due under the California Unemployment Insurance Act then the obligation herein with respect to laborers and materialmen shall be void; otherwise it shall remain in full force.

The obligation herein with respect to laborers and materialmen shall inure to the benefit of all persons, firms and corporations entitled to file claims under the provisions of Article 2. Claimants, (iii) public works of improvement commencing with Civil Code Section 9100 of the Civil Code of the State of California.

Changes in the terms of the annexed contract or specifications accompanying same or referred to therein shall not affect the Surety's obligation on this bond, and the Surety hereby waives notice of same.

The Surety shall pay reasonable attorney's fees should suit be brought to enforce the provisions of this bond.

The Surety expressly agrees that the City of San Diego may reject any contractor or subcontractor which may be proposed by Surety in fulfillment of its obligations in the event of default by the Principal.

The Surety shall not utilize the Principal in completing the improvements and work specified in the Agreement in the event the City terminates the Principal for default.

PERFORMANCE BOND, LABOR AND MATERIALMEN'S BOND (continued)

THE CITY OF SAN DIEGO	APPROVED AS TO FORM
	Mara W. Elliott, City Attorney
ву: ДМу	By: Fullent M. Pathet
Print Name: <u>Matthew Vespi</u> Chief Financial Officer	Print Name: FREDERICK M. ORTLIEB Deputy City Attorney
Date: 11-9-2022	Date: 12/19/2022
CONTRACTOR	SURETY
Sukut Construction, LLC	Liberty Mutual Insurance Company
By:	By: Attorney-In-Fact
Print Name: Eddie Juarez, VP	Print Name: Noemi Quiroz, Attorney-in-Fact
Date: 7/11/22	Date:July 13, 2022
	790 The City Drive South Suite 200, Orange, CA 92868 Local Address of Surety
	(717) 634-5720
	Local Phone Number of Surety
	\$471,648.00
	Premium
	024262828
	Bond Number

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy, or validity of that document.						
State of California)						
County of Orange						
On July 19, 2022 before me, Tania	a Sue Schroeder, Notary Public					
Date	Here Insert Name and Title of the Officer					
personally appearedEddie Juarez						
	Name(s) of Signer(s)					
subscribed to the within instrument and acknow	evidence to be the person(s) whose name(s) is/are ledged to me that he/she/they executed the same in is/her/their signature(s) on the instrument the person(s), cted, executed the instrument.					
	I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.					
TANIA SUE SCHROEDER Notary Public - California Orange County	WITNESS my hand and official seal.					
Commission # 2352529 My Comm. Expires Mar 21, 2025	Signature Dunia Sue Schrode					
	Signature of Notary Public					
Place Notary Seal Above	TIONAL					
Though this section is optional, completing this	information can deter alteration of the document or sometimes form to an unintended document.					
Description of Attached Document						
Title or Type of Document:	Document Date:					
Number of Pages: Signer(s) Other Tha	n Named Above:					
Capacity(ies) Claimed by Signer(s) Signer's Name:	Signaria Nama					
☐ Corporate Officer — Title(s):	Signer's Name:					
☐ Partner — ☐ Limited ☐ General	☐ Partner — ☐ Limited ☐ General					
☐ Individual ☐ Attorney in Fact	☐ Individual ☐ Attorney in Fact					
☐ Trustee ☐ Guardian or Conservator	☐ Trustee ☐ Guardian or Conservator					
☐ Other:Signer Is Representing:	☐ Other:Signer Is Representing:					

CALIFORNIA ALL-PURPOSE ACKNOWLEDGMENT

Civil Code § 1189

A notary public or other officer completing this certificate verifies only the identity of the individual who signed the document to which this certificate is attached, and not the truthfulness, accuracy or validity of that document.

State of California)
) ss
County of Los Angeles)

On 44 13,2022 , before me, Natalie K. Trofimoff, Notary Public, personally appeared Noemi Quiroz , who proved to me on the basis of satisfactory evidence to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same in his/her/their authorized capacity(ies), and that by his/her/their signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

I certify under PENALTY OF PERJURY under the laws of the State of California that the foregoing paragraph is true and correct.

WITNESS my hand and official seal.

NATALIE K. TROFIMOFF COMM # 2308129
Notary Public - Celifornia LOS ANGELES COUNTY
My Comm. Exp. scct 22, 2023

(Seal)

Signature: | lalabox closes

Natalie K. Trofimoff, Notary Public

This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated. Not valid for mortgage, note, loan, letter of credit, bank deposit, currency rate, interest rate or residual value guarantees. For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-6240 or email HOSUR@libertymutual.com.



Liberty Mutual Insurance Company The Ohlo Casualty Insurance Company West American Insurance Company

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That The Onto Casually Insurance Company is a corporation duly organized under the taws of the State of New Hampshire, that Liberty
MURUAL INSURANCE COMPANY IS A COMPOSED OF UNITY OF COMPANY OF THE STATE OF MASSACHIMENTS, and Wast American Insurance Company is a composition stuly organized under
the laws of the State of Indiana (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Noemi Quiroz
of the city of Los Angeles , state of CA its true and lawful attorney in-fact, with full power and authority hereby conferred to sign, execute and acknowledge the following
surely bond:

of the city of <u>Los Angeles</u> , state of <u>CA</u> its true and lawful attorney-in-fact, with full posurely bond:	wer and authority hereby conferred to sign, execute and acknowledge the following
Principal Name: Sukut Construction, LLC	
Obligee Name: <u>City of San Diego</u>	
Surety Bond Number: 024282828	Bond Amount: See Bond Form
IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or office thereto this 12th day of March, 2021.	sial of the Companies and the corporate seals of the Companies have been affixed
1912 CHACHUSE ACHUSE AC	The Ohio Casualty Insurance Company Liberty Mutual Insurance Company West American Insurance Company By: David M. Carey, Assistant Secretary
STATE OF PENNSYLVANIA ss COUNTY OF MONTGOMERY	· · · · · · · · · · · · · · · · · · ·
On this 12% day of March, 2021, before me personally appeared David M. Carey, who acknowledge Ohio Casualty Company, and West American Insurance Company, and that he, as such, being author by signing on behalf of the corporations by himself as a duly authorized officer.	d himself to be the Assistant Secretary of Liberty Mutual Insurance Company, The ized so to do, execute the foregoing instrument for the purposes therein contained
IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of	Prussia, Pennsvivania, on the day and year first above written.
Commonwealth of Pennsylvania - Notary Seal Teresa Pastella, Notary Public Montgomery County My commission expires March 28, 2025 Commission number 1126044	By: Teresa Pastella Teresa Pastella, Notary Public
Member, Pennsylvania Association of Notaries This Power of Attorney is made and executed pursuant to and by authority of the following By-laws and Company, and West American Insurance Company which resolutions are now in full force and effect re	Authonzecons of Liberty Mutual Insurance Company, the Ohio Casualty Insurance ading as follows:
ARTICLE IV - OFFICERS - Section 12. Power of Attorney. Any officer or other official of the Corpor subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizences and other so respective powers of attorney, shall have full power to bind the Corporation by their signature and ex When so executed, such instruments shall be as bindling as if signed by the President and attested to in-fect under the provisions of this article may be revoked at any time by the Board, the Chairman, the I	-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, usely obligations. Such attorneys-in-fact, subject to the limitations set forth in their secution of any such instruments and to attach thereto the seal of the Corporation. by the Secretary. Any power or authority organised to any representative or attorney.
ARTICLE XIII - Execution of Contracts - SECTION 5. Surety Bands and Undertakings. Any officer of it and subject to such limitations as the chairman or the president may prescribe, shall appoint such attorn seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surespective powers of attorney, shall have full power to bind the Company by their signature and executes executed such instruments shall be as binding as if signed by the president and attested by the second	eys-in-fact, as may be necessary to act in behalf of the Company to make, execute, irely obligations. Such attorneys-in-fact subject to the limitations set forth in their ion of any such instruments and to attach thereto the seal of the Company. When
Certificate of Designation The President of the Company, acting pursuant to the Bylaws of the Company to make, execute, seaf, acknowledge and obligations.	pany, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in- deliver as surety any and all undertakings, bonds, recognizences and other surety
Authorization By unanimous consent of the Company's Board of Directors, the Company consents the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company the same force and effect as though manually affixed.	nat facsimile or mechanically reproduced signature of any assistant secretary of the in connection with surety bonds, shall be valid and binding upon the Company with
I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of Liberty Mutual Insurance Company, do hereby certify that this power of attorney executed by said Companies is in full force and effect and it	The Ohio Casualty Insurance Company, and West American Insurance Company nas not been revoked.
IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this	13th day of July 2022
LE 1912 CONTORNAL TO STATE OF THE PROPERTY OF	By:



REQUEST FOR PROPOSAL NO. K-22-2049-DB1-3-C



SUBMITTED BY:

Sukut Construction, LLC 4010 West Chandler Avenue Santa Ana, CA 92704 Tetra Tech 21700 Copley Drive, Suite 200 Diamond Bar, CA 91765

SUBMITTED ON:

April 29, 2022 at 12:00 p.m. PST





The City of San Diego 1827 Cleveland Avenue National City, CA 91950

Attn: Rosa Riego, Senior Contract Specialist

RE: ORGANIC PROCESSING FACILITY, DESIGN-BUILD PROJECT

Dear Rosa and Members of the City of San Diego,

Sukut Construction, LLC (Sukut) and The Tetra Tech Solid Waste Practice Group (Tetra Tech) are excited for the opportunity to serve as the City of San Diego (COSD) Environmental Services Department (ESD) Design-Build Entity (D-BE) for the Organic Processing Facility (OPF) Project (the Project). We have reviewed the Project documents and are confident in our ability to deliver exceptional D-BE services during the pre-construction phase and construct the Project successfully. We look forward to developing a successful partnership to support the COSD in upgrading its infrastructure for the San Diego community.

Sukut is a Limited Liability Company, founded in Orange County in 1968. Sukut's main office is located at 4010 W. Chandler Avenue, Santa Ana, CA 92630. Eddie Juarez, Vice President of Operations, will serve as the main point of contact for Sukut on this Project. He may be reached at edjuarez@sukut.com or (714) 514-8863. Sukut has 32 employees in San Diego County. Sukut is actively licensed and in good standing with the Contractors State Licensing Board, State Contractor's License Number 985106 A, B, Haz, C-21, expiring on 7/31/23.

Tetra Tech BAS, Inc. the lead design firm, serves as Sukut's captured subcontractor on this Project. Founded in 1984 as Bryan A. Stirrat & Associates (BAS), a California Corporation, it became a wholly-owned subsidiary of Tetra Tech, Inc. in 2009. Tetra Tech's main office is located at 21700 Copley Drive, Suite 200, Diamond Bar, CA 91765. Greg Saul, P.E. is the main point of contact. He can be reached at greg.saul@tetratech.com or (909) 655-3266. Tetra Tech has 213 employees in San Diego County. Tetra Tech's City of San Diego Business Tax License number is B199300442, expiring on 3/31/23. Tetra Tech is a licensed California Engineering Contractor, Hazardous Substances Removal Contractor, and C57 Well Drilling Contractor, license number 572017, expiring 6/30/23. The California professional licensing for the Tetra Tech personnel on the Project is as follows: Gregory Saul, Civil Plumbing – Site, Civil Engineer, 60600, 12/31/22; Marcel Bodsky, Architect Plumbing - Building, Architect, 35520, 12/31/23; Joseph Dietz, Structural, Structural Engineer 5251, 9/30/22, Civil Engineer, 67032, 9/30/22; Paul Stout, Mechanical, Civil Engineer, 52827, 12/31/22; Alex Newell, Mechanical, Civil Engineer, 90686, 12/31/23; Mazen Kassar, Electrical Instrumentation/Controls, Electrical Engineer, 15809, 12/31/22, Peter Skopek, Geotechnical, Geotechnical Engineer 2635, 6/30/23, Civil Engineer, 59242, 6/30/23.

Sincerely,

Eddie Juarez,

Sukut Construction, LLC Vice President, Operations

Request for Proposal No.: K-22-2049-DB1-3-C

ATTACHMENT G



TECHNICAL PROPOSAL EVALUATION AND SELECTION CRITERIA

1.1 Proposer Exceptions to this RFP – not applicable, Sukut/Tetra Tech do not take any exceptions to the RFP / contract terms.

2. Summary of Proposal

2.1. Sukut/Tetra Tech Team is excited to have the opportunity to present the COSD with our proposal to provide D-BE services on the Project. Our Team of professionals is best-positioned to collaborate with the COSD and stakeholders to develop and implement innovative approaches, mitigate Project-specific risks, reduce cost, accelerate the schedule, and minimize adverse impacts on the environment and the community. Our Team will provide the COSD with substantial local resources and experience managing the unique logistical, geological, and phasing-related challenges at the Miramar Landfill. Both firms have staff that is located in very close proximity to the Project, which gives us the advantage to respond to the COSD's needs during both the design and construction phases in a timely manner.

Sukut and Tetra Tech pride themselves on being California D-BE market leaders. We are active and competitive in this type of work, which will help ensure their estimates and Guaranteed Maximum Price (GMP) Proposals are realistic, competitive, and developed collaboratively with the COSD.

The COSD will also benefit immensely from our Team's experience delivering projects of similar nature, size, complexity, and geographical locale involving multiple landfills across Southern California, including Miramar Landfill itself for the COSD. Sukut and Tetra Tech have a long-standing history of working together on designing and constructing composting facilities in Southern California. Since 2018, Sukut and Tetra Tech have successfully completed 18 projects where they have collaborated as a team.

This Project requires a unique blend of active landfill construction expertise, project design and construction understanding, and commitment to the COSD and local stakeholders. We have deliberately selected our staff by following these requirements. The Team will leverage the personnel, skills, and techniques from prior successes on numerous landfill projects to deliver a high-quality Project safely, on time, within the COSD's budget, and with no interruption to site operations incurred during the construction process.

The Sukut / Tetra Tech's Project Management Plan will be an evolving document that will incorporate feedback from all stakeholders and the COSD to ensure that our D-BE Team has met the goals and objectives of the Project.

Our Team will design and construct an OPF at North Miramar Landfill located at 5180 Convoy Street, San Diego, California 92111. The OPF Project will consist of constructing an Intake Facility building and all associated waste processing equipment, a new compost facility, a conveyor system, all stormwater and wastewater (leachate) facilities related to the new operating facility and all associated infrastructure (roads, utilities, etc.). Our Team will also relocate the current Miramar Greenery operations and the current covered aerated static pile (CASP) capabilities to the North Miramar Landfill. Additionally, Sukut/Tetra Tech Team will design all necessary demolition, structural, architectural, and grading plans for the Project, retaining the existing Landfill gas (LFG) well and conveyance piping. If modifications are required to the

existing LFG wells, our Team will design a plan for the changes. All changes will be approved by the COSD and permitted by the San Diego Air Pollution Control District (APCD), the Local Enforcement Agency (LEA), Regional Water Quality Control Board (RWQCB), and State Water Resources Control Board (SWRCB). Sukut/Tetra Tech will ensure the minimization of disturbance and relocation of the existing LFG system components in the North Miramar Landfill. If necessary, jumpers or temporary connections to existing LFG headers for affected sections of the existing system will be provided to keep the system online and operational throughout the project. In addition, all required LFG well extensions will be installed as construction allows to bring the system from its current state to final grades.

The goal of the Intake Facility construction is to reduce maintenance costs and enhance stormwater quality while maximizing the use of the conveyor systems to transport the material from the various processing areas to the compost pad. Once complete, the compost processing yearly capacity of the Greenery will be increased by approximately 87,000 tpy to a total of approximately 127,000 tpy. In addition, the Maximum Tonnage Project will also increase the compost processing capacity by approximately 124,850 tpy to a total of approximately 251,850 tpy.

All systems will be designed and constructed in accordance with the Resource Conservation and Recovery Act (RCRA), California Code of Regulations (CCR) Title 14, CCR Title 27, Compost WDR, site-specific Stormwater WDR, Solid Waste Facility Permit (SWFP), Compostable Materials Handling Facility Permit, LEA, all applicable building codes, Federal, State, and local regulations for safe and proper handling of solid waste, and current/proposed/forthcoming changes associated with SB 1383 and AB 1826. Our D-BE Team will be responsible for all coordination and planning necessary for all utility work required for the Project.

To ensure that work is done in full compliance with the Project requirements, the Design Management Plan (DMP) for this Project will include a design workbook for each discipline and Project standard plans to guide the designers of each separate facility and ensure common design elements are applied project-wide.

The Sukut/Tetra Tech Team will focus our attention on utilizing proven construction management systems, cost management expertise, scheduling, permitting and environmental compliance, and a project-specific Quality Management System to ensure that the Project is completed safely while meeting budget, schedule, and contractual requirements.

Our Team will leverage our existing long-term relationships with local subcontractors to mitigate performance risk and obtain cost-effective work within the schedule. In addition, we will integrate our primary subcontractors during task force meetings to solicit their best ideas and keep them engaged throughout the Project.

Initial capital expenditures, operating costs, maintenance, and safety for the public and COSD operations staff have been taken into consideration when identifying the most efficient solution for the Site's short-term and long-term needs.

These are solutions developed by our Team which will be detailed further within the Proposal.

3. Project Team.

3.1. Proposed Management Plan and Qualifications of Key Proposed Construction and Technical Personnel, and Subcontractors.

The Team's management approach will be a critical consideration during design development. Sukut will capitalize on the experience gained through past performance of the design and construction of organic processing facility projects, along with our experience with the Tetra Tech engineering Team, to ensure that the design elements recognize constructability. The Team's specific approach to the construction of the OPF at the Miramar Landfill will be one focused on meeting the operations and infrastructure needs of the COSD.

Sukut's substantial heavy equipment fleet and diverse capabilities within the heavy civil engineering construction, specifically on projects within active landfills, give our Team the ability to self-perform a significant portion of the Project scope. Work, including mass grading of the compost deck, stormwater basin and intake facility pad, landfill gas conveyance piping relocation and well modification, structural concrete and methane building protection system for the intake facility, fire water line installation, stormwater and leachate drainage piping and storage, aggregate base installation for access roads, and concrete CASP bunkers can be constructed utilizing Sukut's in-house equipment and experienced labor force.

Our Team has identified Key Third-Party Subcontractors who will be relied upon to perform the specialty scopes of work associated with the Project, including electrical, steel building construction, conveyor installation, and HVAC. The subcontractor selection plan implemented by the Team emphasizes best value procurement. Elements under review when evaluating subcontractors include safety, portfolio, price, management competency, and labor compliance. Please refer to the *Subcontractor Listing* form in the *Attachment I, Certification and Bond*, for the list of the subcontractors our Team has selected to be utilized on the Project.

The focal point of Sukut's D-BE approach is to actively involve Key Personnel in the design and construction phases to establish continuity and a fully integrated Team. Sukut's designated Project Manager, Tom Wadden, will serve as the primary point of contact throughout the design and construction of the Project. His responsibilities will include communication between the COSD and the D-BE Team, scheduling and leading meetings, coordination with subcontractors and vendors, maintenance of Project records, and managing the overall Project schedule and budget. As the development of the design progresses, Sukut's Site Manager / Construction Manager / Superintendent, Don Barnes, will begin to take on an active role. Don's field experience will be critical in performing constructability reviews during pre-construction. Once the design is complete, Don will assume a full-time Superintendent role on site. He will be responsible for site safety, pre-task meetings, resource allocation, and construction quality control.

Project Manager, Tom Wadden, will oversee all aspects of the Project from design, preconstruction, and construction, to start-up and commissioning. He will work closely with the Design Lead / Senior Project Manager, Greg Saul, P.E., and Don to ensure the necessary resources are allocated to the Project throughout all phases. Greg will oversee a diverse staff of engineers, architects, and technical specialists in developing a design that will accommodate the COSD's goals while cooperating with Sukut for optimal constructability and efficiency.

QA/QC Manager / Project Engineer, Cody Schilling, and Site Safety / Health Manager, Rick Fraser, will be reporting directly to Tom. Cody will be specifically focusing on material and equipment procurement, vendor coordination, and quality control. Rick will be involved in the development of the operational flow of the greenery during the design phase and lead the safety compliance effort throughout construction.

The Sukut/Tetra Tech Team selected De La Fuente Construction, Inc. (DLF) as a Key Subcontractor in this Project due to their outstanding history in pre-fabricated buildings and a diverse range of project types, including design, permit processing, engineering, repairs, renovations, upgrades, rehabilitation, alterations, and new constructions. DLF has many years of experience providing quality service for a variety of clients, including, but not limited to Private Owners, the United States Navy, United States Coast Guard, Department of Homeland Security, United States Army Corps of Engineers, CalTrans, various County and City Public Works, Sanitation, Flood Control, and Waste Management Departments, as well as other local, state and Federal Government agencies and private clients. Our Team stands firm that DLF is the right partner to help bring the Intake Facility from design to construction in a simultaneous manner with the critical pieces of the OPF construction.

The Sukut/Tetra Tech Team selected Sustainable Generation (SG) to serve as a GORE® Bunker Controls QA. The SG Project Team is comprised of a deeply experienced and diverse group of dedicated industry leaders who have supplied equipment and services similar in scope for every GORE® Cover facility built in North America. SG delivers not only first-hand owner and operator knowledge but also the reliability of the proven GORE® Cover system. Since the company's inception in 1958, SG has built a combined 200 GORE® Cover composting facilities worldwide. Over the years, SG performed over 300 installations in more than 30 countries with over 3.5M tons annual processing capacity. In North America, SG performed over 30 installations with more than 1M tons of annual processing. The personnel we have selected for this Project has relevant experience from 200-200k TPY composting projects. They have performed the scope of work for projects which included the supply of equipment and services for a composting system for the purpose of composting source-separated organics (SSO) and yard waste from residential and commercial collected food waste and green waste materials, biosolids (BS), animal waste, and municipal solid waste. With this knowledge and experience, we do not doubt SG's ability to deliver the first-class product and services on this Project.

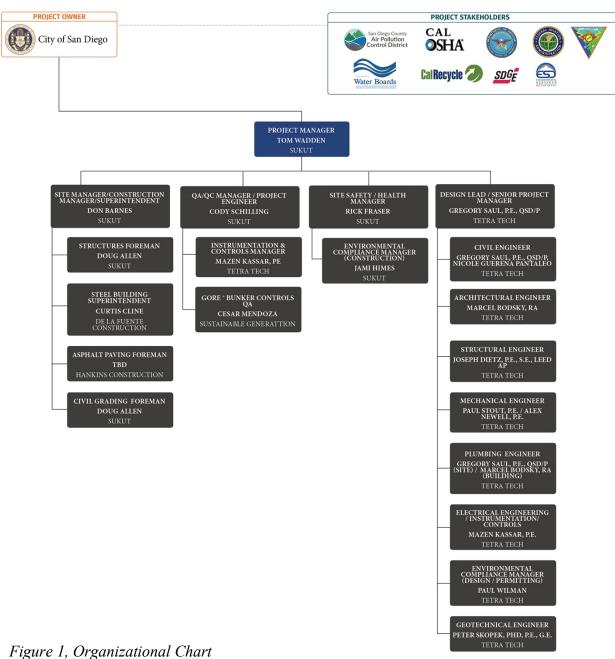
We selected Accent Engineering and Construction as a concrete sub-contractor based on their previous 10-year work experience and knowledge in the construction industry. This emerging local business is owned and operated by Rodney Thompson, a United States Navy veteran and San Diego resident of 30 years, making him a motivator in supporting the local community. Rodney and his Team have successfully completed projects ranging in size and complexity for clients such as Verizon and Disney. His extensive experience on similar projects and extensive industry knowledge makes them an ideal candidate for this Project.

Our Team selected Hankins Construction Inc. as the Asphalt Paving subcontractor based on their previous work experience and close ties to the San Diego area for over 30 years. This emerging woman-owned and operated business services all of San Diego County. As a member of the Better

Business Bureau, Hankins Construction is dedicated to providing quality service, whether it is a small private job or a large public works project.

Suffolk Construction was selected as the electrical sub-contractor based on their skill and previous work experience. They have completed previous projects from coast to coast and currently have offices nationwide. This large national presence opens up capacities of resources unique to them and their trade.

Please refer to Figure 1, Organizational Chart, outlining the Sukut/Tetra Tech Team's fully integrated organizational structure for the Project.



A significant advantage of the Sukut Team is that all members of Sukut's key construction personnel have worked together with Tetra Tech's key design team members on past landfill greenery projects. This experience provides continuity of team culture, common best practices, and streamlined management systems for safety, quality, and project controls.

The Team's diverse experience is detailed in the *Project Team: Resumes* section following *Attachment G. Evaluation and Selection Criteria*.

4. Technical Approach and Design Concept.

4.1.1. Proposed Design Concept.

As part of this Proposal, the Sukut / Tetra Tech Team has prepared a preliminary design to respond to the requirements of the Request for Proposal. As stated in the Project RFP, the COSD is requesting an Initial Project and a Maximum Tonnage Project. The Initial Project focuses on constructing all of the infrastructure for the Maximum Tonnage Project, excluding the Covered Aerated Static Pile (CASP) bunkers. Our plans and details focus on the Maximum Project with the understanding that the CASP bunkers can be built out now or at a later date based on the COSD's needs. The Project components are described below:

Intake Facility



Architecture: The OPF pictured above and on the right as *Figure 2, Intake Facility Renderings*, is a 25,000-SF preengineered metal building designed to receive, mix, and process organic compostable materials. Overall building dimensions are 125 FT by 250 FT with a primary column spacing of 25 FT OC. Building minimum clear height at the haunch of the building column will be 28 FT, with the rest of the structure with higher clearances. The concrete slab floor is basically flat, with trench drains at the center and at the inside of the overhead doors. The building perimeter

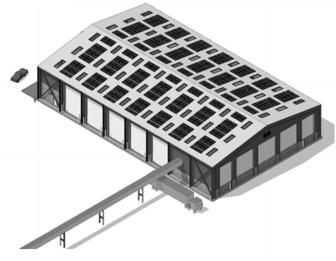
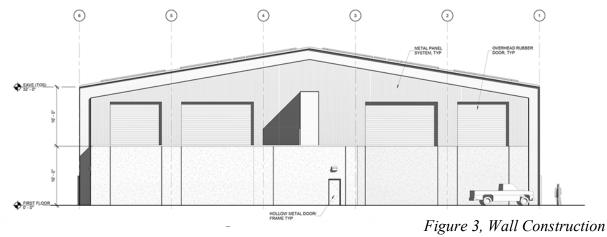


Figure 2, Intake Facility Renderings

consists primarily of coiling rubber doors. The building can be completely closed up or almost completely opened. Two 12" diameter concrete filled bollards will be provided outside of each door to protect the columns and doors. The building will contain the COSD's grinder, located next to the conveyor hopper, which will deliver mixed material to the bunkers.

Wall Construction: Generally, exterior walls, pictured below as *Figure 3, Wall Construction*, consist of 28-FT-tall by 18-FT-wide operable coiling rubber doors. At building columns, there will be a 10-FT-tall 12" thick by a five-FT-wide concrete wall in front of each column for impact protection. Door tracks will also recess into this wall for impact protection. Spaces between the doors above the protective concrete walls will have metal stud wall infill with metal siding on both sides, so debris will not accumulate. The wall adjacent to the mechanical room/biofilter will be a 16-FT-tall, 12" thick concrete push wall, with coiling rubber doors above. Four exit doors will be provided for exiting and access when overhead doors are closed.



Roof Construction: The roof, pictured right as *Figure 4*, *Roof Plan*, has a moderate slope to a central ridge. The roof structure will be pre-engineered metal purlins with spanning standing seam metal roofing. A vapor barrier liner with R-3 insulation will be provided under the roof for condensation control.

The building will be provided with skylights and or clear smoke vents to distribute natural light evenly throughout the space. The building will also have LED interior lighting. Provision for future solar panels will be part of the metal

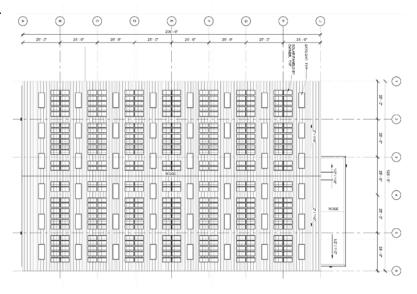


Figure 4, Roof Plan

building loading, and a sample solar arrangement is indicated on the floor plan.

Floor Construction: The floor will be a concrete slab with a methane barrier and collection system integrated into the slab and structural fill to comply with Title 27 and building codes. Since no geotechnical information was available at the time of the proposal preparation, we have assumed that no subsurface preparation is required beyond one FT of scarify and compaction of the existing soils to 95% relative compaction. The scope includes a geotechnical investigation to verify this design approach is sufficient, but additional measures to improve the subgrade are not considered in this proposal.

Following mass excavation and grading and coinciding with the compost deck utility installation, Sukut will construct the Intake Facility methane barrier. The methane barrier construction will begin by excavating the proposed 12" section down to the subgrade. Sukut will lay out the 12 OZ/SY geotextile filter material at the methane barrier subgrade. The geotextile seams will be sewn per manufacturer recommendations in the field. Following the installation of the bottom layer of geotextile, the gravel layer and perforated piping will be installed. PVC piping will be flush thread so that no pipe glue will be detected in the system. The top layer of filter geotextile will be installed over the top of the gravel and seamed with the bottom layer, encapsulating the gravel. The entire top layer of geotextile will be sprayed with a Liquid Boot® vapor barrier. All pipe penetrations through the vapor barrier will be sealed. The piping that extends outside of the building slab will be transitioned to galvanized steel and anchored to the site of the intake facility building following steel erection.

Following the testing and acceptance of the methane barrier, the Intake Facility building slab will be constructed directly above the Liquid Boot® vapor barrier.

Mechanical: The mechanical/electrical room will house fans that will pull air out of the facility for periods when odor control is required. Ducting will rise directly up from the mechanical room and split off into three large ducts to serve the entire space.

1 ½" water hose bibbs will be provided in four locations in recessed cabinets for floor washdown. The building will be provided with a misting system and a sprinkler system. The Sprinkler system category is assumed to be Ordinary Hazard II.

Air Handling/Odor Mitigation System: The design includes two measures for odor mitigation: an air handling system with a biofilter and a misting system. The air-handling system/biofilter will be accordance with bullet *b.iii* of the Scope in the RFP. A misting system will provide additional odor control as well as and control dust.

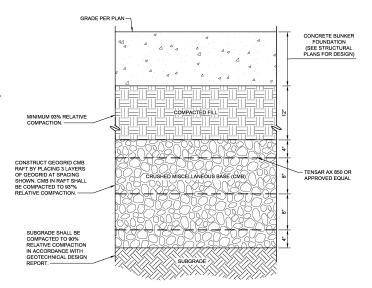
Water Supply System: A proposed supply system will be designed and constructed to provide operations and fire water supply. It is assumed that the existing site water lines can be connected to and will provide adequate flow and pressure to meet the fire and operational flows.

Composting Facility Pad: The composting facility will be located in the North Miramar Landfill. The compost pad, pictured on the next page as *Figure 5, Composting Facility Pad Design*, will provide an area for the organic material to be gathered from the intake facility. The pad is sized to

accommodate 72 Sustainable Generation / GORE® (SG/GORE®) bunkers (maximum tonnage facility). The concrete bunkers are designed based on the SG/GORE® system and the scope of work in the RFP.

Since the compost deck will be located over a closed portion of the Miramar Landfill, the soils below the design include a geogrid mattress which consists of three layers of geogrid placed within a layer of compacted base rock. This engineered subgrade should reduce the long-term impact of settlement over the compost deck area; however, some settlement is inevitable and long-term maintenance and potentially replacement of all hard scape surfaces should be anticipated by the COSD, regardless of the amount of subgrade reinforcement.

The nature of the final cover is not known at the time of the preparation of this Proposal. There is no cover system redesign in the scope of the RFP or in this Proposal beyond the construction of the compost deck itself, as described above. The Sukut Team has designed and constructed composting decks over closed landfills, and in these cases, the compost deck design requirements are considered adequate for the landfill cover



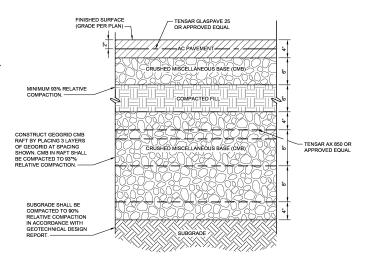


Figure 5, Composting Facility Pad Design

by the regulatory agencies, and we anticipate that to be the case with this Project as well. Therefore, no landfill closure permitting modifications are included in the scope.

The bunker slabs will include piping for the aeration of the CASP piles and the collection of the excess liquids within the compost heap. The liquids collection pipes will connect to a leachate header collection pipe that will run along the center of the bunkers and drain toward two leachate tanks where the liquid will be collected and either reused or disposed of.

Storm Water Infrastructure: The composting pad will be surrounded by a perimeter berm that will divert the stormwater runoff away from the compost deck and capture the stormwater runoff from within the compost deck. The site will be graded with swales running between the CASP bunkers to allow stormwater to be conveyed away from the bunkers toward the site permitter and ultimately toward the lined stormwater pond. Based on a preliminary analysis, the detention pond

is sized for a 25-year, 24-hour storm event for the catchment area. The precipitation data was received from NOAA, and soil data was received from the USDA website. For analysis, HEC-HMS is used to estimate the total runoff volume collected in the Pond. The total runoff volume was estimated to be around 3.8 AF. The design features a detention pond with a side slope of two to one, and a total depth of seven FT is designed with storage of five FT and a freeboard of two FT. The top surface area of the detention pond is estimated to be 1.04 AC which provides a total storage volume of around 4.16 AF at five FT of storage depth and two ft of freeboard.

The sales and finished product storage area and the customer sales area will be located outside the compost footprint. A chain-link fence surrounds each area to separate the area from the landfill. This area will be graded, and stormwater will be conveyed away from the finished product storage areas. The customer kiosk will be a modular building or trailer located on a CMB base pad. This will allow the trailer to be moved and the pad regraded as needed to mitigate any impacts from the settlement.

Composting Process: During the design development, the Project Team will work closely with the COSD and Miramar Greenery staff to develop an intake facility layout that emphasizes safety and efficient resource allocation. The 25,000-SF facility detailed in this proposal is designed to accommodate the COSD's composting throughput goals (690 tpd) while allowing for over 20% of open floor space to address future expansion.

Collection vehicles will be directed to specific intake facility bays. A passive traffic control system will be the first step of material segregation and also will allow for minimal on-ground traffic control personnel. Food, green, and unpainted and untreated wood waste will be diverted to separate bays within the facility. Per the California Code of Regulations 17868.5, feedstock shall undergo load checking that includes both visual observation and load sorting. The incoming organic material will be dumped directly on the tip floor and visually inspected to ensure it is clean and free of any large visible contaminants. The visually inspected material will be mixed and loaded into the compost grinder located within the facility. Material dumping operations will occur from the west-facing front entrance of the Intake Facility, while mixing, loading, and grinding operations will occur in the east-facing rear of the Intake Facility. This operational flow will minimize traffic interaction between collection vehicles and heavy equipment within the facility.

Mixed material exiting the grinder will be diverted directly onto the proposed conveyor system. The conveyor system will deliver mixed organic material to the compost deck. The composting process will begin when the material is loaded into the bunkers. Once a bunker is loaded, it will be covered, the temperature and oxygen probes will be installed, and the Covered Aerated Static Pile (CASP) control system will adjust the rate of aeration atomically for the next four weeks. This is referred to as the active phase of the process. After 28 days, the GORE Cover will be removed from the bunker, and the compost will be moved to another bunker and covered again for a period of two weeks for the Maturation Phase. The Maturation Phase is similar to the Active Phase in that the compost is covered, and the aeration of the compost is controlled automatically. After 14 days of the Maturation Phase, the compost will be placed in a new bunker; however, in this phase, no membrane cover will be applied, and it will remain in this bunker during the Finishing Phase, which will last another two weeks. After the Finishing Phase, the CASP process will be completed. The finished compost material can then be screened and placed in the storage curing area. Various

composted materials can be blended with mulch, topsoil, other composted materials, etc., and receive additional passive curing depending on the desired final product. Once the desired product is achieved, it can be moved to the customer sales area or stage for shipping offsite as appropriate.

Side note: for an additional set of conceptual drawings, please reference a separate Section 4.1 Additional Design Drawings.

List of major equipment: A list of major equipment that will be utilized by Sukut/Tetra Tech Team on this Project is listed below. Please refer to *Section 4.1.1.*, *Construction Approach and Methods*, for the descriptive narrative about the way we will be using this equipment to perform work on the Project's site.

- CAT 349 excavator
- CAT 657 scraper
- CAT D9 dozer
- CAT 834 rubber tire dozer
- CAT 320 excavator
- CAT 950 loader
- HDPE fusion machine
- Water truck
- CAT 446 backhoe
- CAT D5 LGP dozer and skid steer
- CAT 16 motor grader
- CAT 623 elevating scraper
- 84" smooth drum roller

4.1.2. Proposed Design Schedule.

Please refer to *Figure 6*, *Design Project Schedule*, on the next page, outlining design activities and associated timing durations for the Project. The cost-loaded schedule will be provided by Sukut/Tetra Tech within 10 working days following the bid opening as per Phased Funding Provisions stated in the RFP, page 443. Any pricing information outlined in the schedule, which is part of the Technical Proposal, will serve as grounds for disqualifications, as outlined in section 2.6.1. page 8 of the RFP.

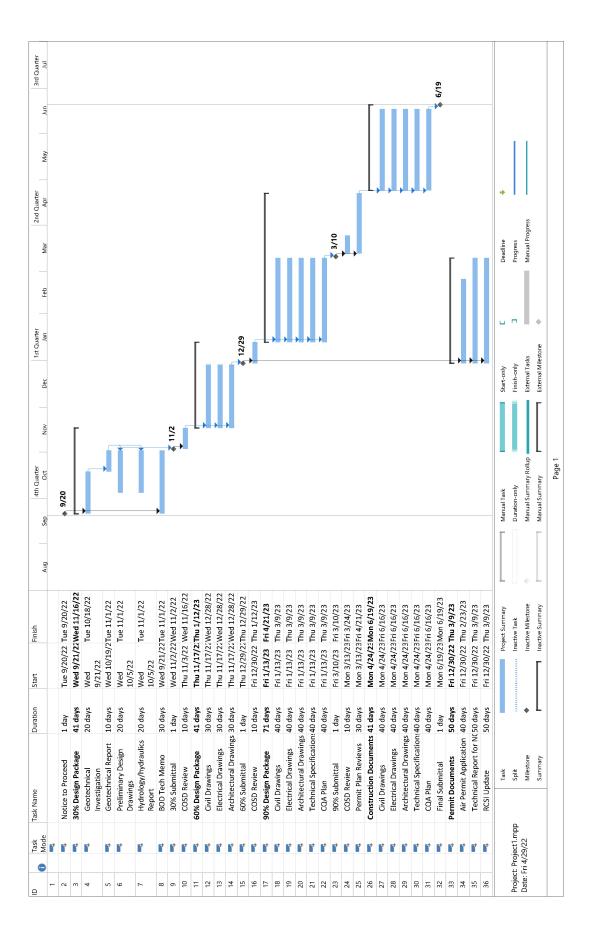


Figure 6, Design Project Schedule

4.1.3. Pricing Breakout.

Please refer to *Attachment H*, *Price Proposal Forms*, part of the Price Proposal, for a complete breakout of pricing for all elements of the proposed Project.

4. Construction Plan.

4.1.1. Construction Approach and Methods.

The initial construction phase will focus on clearing, demo, landfill gas piping modifications, and grading. Vegetation, concrete surface drainage, and stored materials will be cleared within the project limits using dozers, excavators, wheel loaders, and dump trucks. Demolished materials generated from site clearing will be disposed of on-site at the active face. Existing laterals for landfill gas wellheads within the compost deck limits will be cut, capped, and re-installed below grade to remote wellheads outside of the compost deck limits. This work will be completed by Sukut labor crews supported by an operated backhoe. Sukut's experienced crew will perform butt fusion welding for HDPE piping.

Once the Project limits have been cleared of vegetation and landfill gas piping, Sukut will perform mass excavation to engineered fill. Design grades for the compost deck were developed with the specific intent to balance earthwork cut/fill volumes. Based on previous geotechnical investigations, the existing interim cover material is of adequate thickness to accommodate the design excavation depths. The material will be excavated and hauled using CAT 657 scrapers, supported by a CAT D9 dozer. Engineered Fill material required for the Intake Facility grading will be hauled directly from the upper compost deck utilizing temporary off-highway haul roads. Earthwork hauling will be contained within the design limits so there will be no interference with site operations or customer traffic. Engineered fill will be placed at the Intake Facility and Compost Deck to the design grades shown on Tetra Tech's Plans. The existing ground will be scarified and moisture-conditioned, per the geotechnical requirements, prior to fill placement using a dozer or motor grader and water truck. Material dumped in the fill area by the scrapers will be knocked down and compacted using a CAT 834 rubber tire dozer. Water Trucks will be utilized during earthwork activities to control fugitive dust and to moisture condition the engineered fill material. The CAT 834 will also mix the engineered fill as it is placed to ensure uniform moisture and lift thickness. Sukut's GPS technology will control design grade within the excavation and engineered fill areas. Machine-mounted equipment controls and grade checkers with GPS rovers will verify grading accuracy and tolerance in the field by referencing the design model developed by Tetra Tech. Sukut has demonstrated GPS equipment accuracy to be consistently within the +/- 0.05 FT range.

Infrastructure Improvements: Sukut will begin installing the infrastructure improvements required to support the OPF, following engineered fill placement to proposed design grades. Sukut will tie into the existing reclaimed water line located at the existing Mini-Operation Center and Fueling Station. The reclaimed water supply will be utilized to construct the fire water line around the perimeter of the compost deck. Sukut pipe crew, compromised of a CAT 320 excavator, CAT 950 loader, HDPE fusion machine, water truck, and laborers, will install the perimeter header and laterals below grade. Long runs of the HDPE header line will be pre-welded with a small crew to expedite the pipe installation within the excavated trenches. All firewater piping will be pressure tested and flushed prior to final acceptance. Fire hydrants, post indicator valves, thrust blocks, and other appurtenances will be installed concurrently with the water line piping. The leachate header

line will be constructed in a similar method as the fire water line. The leachate header will be constructed with tie-in stub outs for the CASP bunker piping and connections at the piping termination for the proposed above-ground storage tanks. The leachate storage tanks will be constructed within a concrete secondary containment structure. Connections for leachate removal will be installed at the storage tank outlets.

Stormwater Basin: The proposed stormwater basin construction will begin immediately following grading operations. Sukut's concrete structure crew will construct the concrete sump and spillway. The concrete sump invert will be constructed first so that the HDPE sump can be set and embedded into the concrete sump walls. The 36" HDPE pipe will act as the interior form for the sump walls. The concrete spillway will be built by the same concrete structures crew. The crew will ensure that the geomembrane embedment strip is set in the spillway bottom edge for future tie-in to the basin liner. The subgrade for a geosynthetic liner will be hand raked, and smooth drum rolled to ensure there will be no protrusions or undulations on the subgrade. Next, Sukut will excavate the basin anchor trench using a CAT 446 backhoe, supported by laborers controlling trench depth. Sukut's geosynthetic liner installation subcontractor, D&E Construction, will begin deploying the geomembrane liner immediately following subgrade preparation and anchor trench excavation. D&E Construction will develop a "Proposed Panel Layout" work plan prior to installation. Tetra Tech will verify the proposed layout to confirm conformance with Plans, Specs, and manufacturer recommendations. The liner will be pulled from a boom spreader bar at the top of the slope, following the orientation shown on the panel layout work plan. Seams will be welded utilizing a wedge welder with strict QA/QC testing and documentation. A QC Manager will be appointed by D&E Construction to maintain all as-built documentation for panel layout, welds, and destruct tests. The QA must be performed by a third party, independent of the contractor, and therefore is not included in this scope. The basin anchor trenches will be backfilled with the excavation spoils using a CAT 446 backhoe, water truck, and tampers. Following geosynthetic liner installation, the previous backfill will be placed utilizing low ground pressure equipment composed of CAT D5 LGP dozer and skid steer. The previous material will be pushed out with the LGP equipment to the required thickness. Riser piping from the concrete sump to the concrete spillway will be installed concurrently with the previous backfill material. A chain-link fence and access gates will be installed around the perimeter of the basin.

Intake Facility Slab: The slab will be laid out with survey benchmarks and string lines to facilitate formwork installation. Reinforcing steel will be laid out, tied, and spliced per the structural design recommendations by Tetra Tech. The slab will be constructed by Sukut's concrete structures crew composed of laborers, cement masons, carpenters, and cement finishers. A boom pump and power screed will support the crew during concrete placement.

Bunker Systems: Construction of the bunker systems within the compost deck will be in close coordination with the system manufacturer, Sustainable Generation (SG). SG will provide the GORE® covers, cover fastening system, aeration system, control system, and loader winder attachment. The current estimated lead time for the bunker materials is 20 weeks. As this is a long lead item, Sukut will work with SG to procure the material as early as possible in the preconstruction phase so the material is delivered well in advance of commencing bunker system construction activities. Prior to the delivery of SG materials, Sukut's efforts will be focused on subgrade preparation, structure layout, formwork, and reinforcing steel installation. The bunker

floor and water trap subgrade will be graded to follow the reverse flow of the bunker drainage system. The bunker side walls and push wall will be constructed before the floor. Sukut will mobilize multiple crews to simultaneously form, pour, and strip the bunker walls. Prefabricated sidewall caps provided by SG will be attached to the top of the bunker sidewalls to facilitate GORE® cover deployment. Pipe sleeves will be installed through the push wall prior to concrete placement for connection to the aeration system. Prefabricated trench units will be laid out and graded using steel hangers and string lines. The trenches will be connected to the drain line outlet piping and leak-tested with a blower. A soapy water solution will be sprayed along the aeration trenches, and any water bubbling will be monitored. Areas showing bubbling water will be resealed with Sikaflex®.

Upon passing the leak test, the bunker floor concrete will be poured between the push wall, sidewalls, and trench units. Holes in the aeration trench will be plugged using Sikaflex® based on the pre-determined pattern developed by Tetra Tech and SG. After the concrete has cured, Sukut will begin to install the bunker cover fastening systems. Sukut labor crews will install a semi-circular metal plate to the push wall using anchor bolts drilled directly into the wall. Cover fastening anchors will be drilled into the outer side of the bunker sidewalls. A cable will be threaded through the cover fastening anchors to allow for the GORE® covers to be connected using carabiners and bungee cords. Bunker controller systems and blowers will be mounted behind the floor behind the push wall of each bunker. The control systems and probes will be ready for power and network connection upon delivery based on SG "plug and play" fabrication. System commissioning, functional testing, and start-up will be performed per the program detailed in *Section 4.1.4* of this proposal.

Following the construction of concrete foundations, bunkers, and leachate tank containment structures, the pavement section will be constructed within the compost deck. The crushed miscellaneous base will be delivered in bottom dump trucks and placed directly on the compost deck subgrade. Sukut will utilize a CAT 16 motor grader, CAT 623 elevating scraper, 84" smooth drum roller, and water truck to knock down, moisture condition, and compact the CMB layer. The asphalt paving subcontractor, Hankins Construction Inc., will mobilize the following certification of the CMB section. Hankins Construction Inc. will perform asphalt paving and deployment of Tensar GlasPave® reinforcement, coordinated and supervised by Sukut.

Intake Facility Building: Once the forms have been stripped and concrete has been prepped from the previously constructed foundation slab, the site will be turned over to our subcontractor, De La Fuente Construction to begin the installation of the prefabricated metal building. The OPF will be constructed in several phases: primary framing, roof and wall sheeting, and final utilities. The primary framing phase will consist of the erection of the i-beam columns and rafters. Primary steel will be delivered welded, cut, and notched for a guided installation.

A combination of man-lifts and telehandlers will be required during this phase to upright the beams and secure them into place. During the roof wall and sheeting phase, the building will be enveloped and enclosed. Our labor teams will work on the ground and above to secure sheeting to the columns and rafters. Simultaneously, other trades will begin the layout of fire sprinkler, electrical, and any wet utilities required to be run to the building. Once walls are complete, roof sheeting will be put into place along with frames for the required skylight installation. The weatherstripping will also

be dually applied simultaneously to create a water-tight facility during weather events. Preceding steel construction, the previously mentioned trades will finalize their subcontractor work, preparing the building for the final inspection.

The Sukut/Tetra Tech Team will work closely with De La Fuente Construction to ensure that the construction is started as early as possible to coincide with adjacent civil work at the composting pad site. The selected building contractor will work closely with additional trades such as fire sprinkler, electrical, and bio-filtration to ensure the building's timely construction duration.

Composting Equipment and Material Transport Conveyance Systems: The Sukut/Tetra Tech Team will utilize Miramar Landfill's existing grinding equipment in conjunction with a newly constructed conveyance system. Construction of the Conveyance System will begin with stabilizing the surface below which the system will be positioned. After the surface is considered suitable, concrete foundations will be poured to support a head-to-tail steel truss and trestles system that will be installed in 40-FT increments. We will utilize a CAT 325 excavator, a long-reach forklift, and a 120-ton crane to complete the framework and catwalk installation. Once the framework and catwalk are positioned in place, the construction crews will begin assembling the conveyor cover, motor, and pulley system. This system will allow the 24"-wide belt system to carry waste material to the curing area with minimal labor cost. After installation of the pulley system, power and controls will be integrated and tested under the supervision of the manufacturing representative to ensure everything is functioning correctly. Before turning over control of the conveyance system, a training course will be given to Miramar Landfill employees.

The finished product storage and customer sales areas will be located outside the compost deck footprint. The driving surface of the storage and sales area will be constructed out of a crushed miscellaneous base (CMB). The CMB section will be constructed coinciding with the lower CMB section of the compost deck using a CAT 16 motor grader, CAT 623 elevating scraper, 84" smooth drum roller, and water truck. Material storage bays will be delineated using precast k-rail barriers. The k-rail delineation will allow for future flexibility and expansion of the storage and sales area. A mobile, prefabricated customer service kiosk will be placed in a location determined by the site operations staff. Utilizing a mobile customer service kiosk will mitigate potential settlement impacts and allow for future flexibility.

4.1.2. Plan for Operation of Existing Facility During Construction and Relocation.

The design and construction plan developed by the Sukut/Tetra Tech Team involves using multiple existing systems for the proposed compost deck. The 24 existing SG control systems will be reused in the "Initial" compost deck expansion. The remaining 12 control systems required for the initial scope capacity will be procured from SG. Existing GORE® covers utilized within the existing Miramar Greenery will not be re-used in the proposed facility due to the relatively low lifespan of the existing covers and different dimensions of the existing Heap® system and proposed Bunker® system. Sukut's proposal includes supplementing the site's existing machine by supplying one additional mobile GORE® cover handling machine.

For the construction of the Organic Processing Facility, the Sukut/Tetra Tech Team will initially utilize the newly procured control systems and cover handling machine. This will allow the systems to be commissioned and tested for functionality without interruption to existing

operations. Following testing and start-up, composting operations for incoming material will be relocated to the new facility. The re-location of the COSD's composting equipment to the newly constructed intake facility will be scheduled in advance with the COSD and site operations team to minimize any partial shutdowns required for the switch over. Existing compost heaps and associated control systems will be relocated one by one to the concrete bunkers while the capacity of the newly procured control systems is taken by compost accepted into the intake facility. Equipment and manpower for relocation of existing compost piles and control systems will be dependent on the open capacity within the new compost deck.

4.1.3. Plan for Phasing of Construction Activities.

Sukut proposes the following phases of the construction activities on the Project:

PHASE 1

- Preliminary civil improvements
 - o Clearing, demo, LFG modification
 - o Grading, excavation, fill placement
 - o Intake Facility Building Protection System

PHASE 2

- Intake Facility structures
 - o Intake Facility concrete slab
 - o Intake Facility prefabricated Metal Building construction
- Utilities
 - o Electrical improvements
 - o Fire water line
 - Leachate drainage piping

PHASE 3

- Compost Deck improvements
 - Concrete compost bunkers
 - Stormwater basin
 - Asphalt paving
- Customer area and final storage area improvements
 - Set k-rail bays
 - o Perimeter fencing
 - Customer Service kiosk

PHASE 4

- Conveyor system
 - Construction
 - Electrical
 - o SG Bunker[®] Mechanical System with GORE[®] covers

PHASE 5

- Relocate Compost Operations
 - Decommission previous systems
 - o Transfer compost processing equipment

4.1.4. General Plan for Functional Testing and Start-Up.

Commissioning, Start-Up, Functional, and Performance Testing (Typical)

Installation: Our Team's proposed plan for functional testing and start-up is provided below:

- A. General: Install the SG Bunker[®] Mechanical System in accordance with the Supplier's recommendations, approved shop drawings and as specified.
- B. Furnish and install all wiring, conduits, disconnect switches or breakers, and other appurtenances necessary for a complete installation.
- C. Coordinate with the Supplier to support his operations and allow complete installation of the SG Bunker[®].

1. Control box and electrical:

- a. All electrical installations, including but not limited to electrical conduit, wiring, relays, starters, disconnects and final power hook-up to the control box, are to be provided and installed by Sukut.
- b. Installation of low voltage installations (network, control cable, data cable, and probe cable) will be provided by the Supplier or the Supplier's authorized representative.

2. Aeration and leachate trench:

- a. Place and secure aeration and leachate trench in the presence of an authorized representative of the Supplier for the first one Bunker®. Provide written certification from the Supplier that the trench has been installed correctly in correspondence with the contract drawings and shop drawings.
- b. **Reversing Slope Bunkers**®: The air channel system shall be installed starting from Bunker® toe (open end) and back towards the push wall and water trap. A straight line shall be used to ensure proper alignment during installation. Insure a consistent uniform slope from aeration trench to the water trap. See contract drawings for reference Bunker®.
- c. Install aeration system, including all relevant parts such as trenches, individual blowers and water traps, pipe, and fittings according to Supplier's installation requirements and to meet the system specifications for the SG Bunker® / SG Heap® System.

3. Mobile winding machine:

- a. Mobile winding machine will be assembled by the Supplier's assembly specialist. Provide all necessary labor, equipment, and materials to assist the Supplier's assembly specialist in assembling the mobile winding machine.
- b. Only the Supplier or Supplier's authorized representative can open the container housing the mobile winding machine equipment.

4. Painting

- a. All equipment as part of the SG Bunker® will be shipped from the factory with the final coating system factory applied to all surfaces.
- b. Repair damage incurred to factory coating during offloading of equipment.

Start-Up:

A. Provide start-up services and test the SG Bunker® System under direct supervision of the Supplier and in accordance with these specifications.

Field Tests After Installation:

- A. Perform the following field tests following complete SG Bunker® System installation:
 - 1. Functional Test: Provide the services of the Supplier to perform the Functional Test and provide supporting assistance as necessary to complete the testing. Testing will include all GORE® covers, winder, blowers, aeration and leachate trench, and associated control systems.
 - 2. After completion of Functional Test, the Performance Test can start. The Supplier to provide services and provide assistance as necessary to complete the testing. Testing will include all GORE® covers, winder, blowers, aeration and leachate trench, and associated control systems.
 - 3. In the event that any equipment fails to meet the above tests, it shall be modified and retested in accordance with these specifications, at no additional cost to the Contracting Officer.
 - 4. Sealed Aeration and Leachate Trench Pressure Test: Prepare a report summarizing the results of the sealed Aeration and Leachate Trench pressure test.
- C. Testing Preparation: Provide all materials and equipment required to conduct testing from the Supplier. Ready-to-test determination will be by the Contracting Officer based on the following minimum:
 - 1. Notification by the Contractor and the Supplier of the system readiness for testing.
 - 2. Acceptance of a submitted testing plan.
 - 3. Adequate completion of work adjacent to, or interfacing with, equipment to be tested.
 - 4. Availability and acceptability of Supplier's representative, when specified, to assist in testing of respective equipment.
 - 5. Control devices have been tested for function and operation within design range.
 - 6. Equipment and electrical tagging complete.
- D. Functional Testing: Submit a testing plan from the Supplier containing procedures/techniques that the Supplier will employ for the Functional Testing to meet the requirements of these specifications.
 - 1. Demonstrate during Functional Testing that all components, hardware, controls, software, power systems etc. are ready to be used for the composting process.
 - 2. Conduct the Functional Testing for each Bunker® individually, as follows:
 - a. Test of the controls and alarms.

- b. Test of the temperature and oxygen probes.
- c. Test of the blowers.
- d. Test of the SG Compost Control System is functional for all notifications, data management, alarms, and controls.
- 3. Functional testing will be witnessed by Sukut and the COSD and will demonstrate that the system and related control system operate in accordance with the specifications, including all operating, monitoring and shutdown functions.
- 4. Demonstrate all operational features and controls during the Functional Test while in automation mode.
- 5. If, in the opinion of Sukut, the system meets the requirements specified herein, the system will advance to Performance Testing. If, in the opinion of the Contracting Officer, the Functional Test results do not meet the requirements specified herein, the system will be classified as nonconforming.
- 6. In the case of a nonconforming system, advancement to Performance Testing will not commence until the Supplier has made such adjustments, changes, and additions as are necessary to correct the system and has demonstrated this by a satisfactory Functional Test as specified above.
- 7. The Supplier will prepare a report summarizing the results of the Functional Testing. The report will be transmitted to the COSD through Sukut within 21 calendar days of the Functional Test for review and acceptance. Acceptance of the Functional Testing by the Contracting Officer is necessary before Performance Testing can begin.
- E. Performance Testing will continue in the manner intended to process the composting over a 60-day period through all of the Bunkers® without a significant interruption. A significant interruption is defined below. A significant interruption will require the test, then in progress for the affected Bunker®, to be stopped and restarted after corrections are made, beginning a new test for that Bunker®. The new test for the affected Bunker® will result in operation for at least 42 days (the time for material to complete the Phase 1 and Phase 2 process) from the time of restarting after a significant interruption to simulate one full batch. If the significant interruption affects all Bunkers®, the 60-day Performance Testing will be restarted after corrections have been made by Supplier through the Contractor. All sampling, analysis, and other testing will apply to the restarted test. Additional testing will be conducted for the additional sampling or for any other services necessary to complete the Performance Test.
 - 1. Significant Interruption may include any of the following events:
 - a. Failure of any critical equipment unit, system, or subsystem that results in the failure to fulfill USEPA Title 40 CFR Part 503 regulations.
 - b. Failure of non-critical unit, system, or subsystem that is not satisfactorily corrected in a timeframe that results in the failure to fulfil USEPA Title 40 CFR Part 503 regulations.

- 2. Upon completion of the Performance Test, the Supplier will submit a written report to the Sukut containing the test results. All recorded measurements and sample analyses will be included in the report, along with a summary of all alarms that occurred during the test and observations. Sukut will advise the COSD of any specific deficiencies, which will be remedied prior to final acceptance of the system.
- 3. In the event that the test results obtained during the Performance Test do not meet the guaranteed results, additional Performance Test runs will be conducted. Prior to the additional testing, provide the services of the Supplier to make such adjustments, modifications and alterations to the system as may, in their judgment, be required to achieve the guaranteed results.
- E. System Acceptance: Sukut will execute a Certificate of System Acceptance, substantially in the form of Appendix 01, upon its acceptance of the Functional and Performance test reports demonstrating that the SG Bunker® /SG Heap® System operates in accordance with the specifications.
- F. Performance Testing: Performance Testing will be conducted by Sukut, with the assistance of the Operator, and the Supplier. Assist in the Performance Testing, following the acceptance of the Functional Testing. Demonstrate, during the Performance Test period that all aspects of the system are functioning properly to compost and that all performance and design criteria are met.
 - 1. The Performance Test will be conducted over a minimum of 60 consecutive calendar days and will start when at least one Phase 1 Bunkers[®] have been filled and have started the composting process. The purpose of the test is to assure proper performance of the SG Bunker[®] System under actual conditions and loading.
 - 2. The intent of the Performance Testing is to demonstrate that the equipment will operate, and all equipment will react to changing conditions. All equipment should be in proper working order and alarm conditions are acknowledged by the system, and the compost reaches time and temperature requirements as noted in the subsection above, System Description.
 - 3. The Supplier to be onsite a minimum of 21 total non-consecutive days throughout the duration of the Performance Test in order to witness the performance of Phase 1, Phase 2, and Phase 3 Bunkers[®]. The days will be coordinated with Sukut.
 - 4. Include the following in the Performance Test:
 - a. Continuous monitoring and recording of time, temperature, oxygen, and mass loading.
 - b. Implement the Performance Test requirements for the Compost Control System and Instrumentation.
 - c. Sukut will arrange for a third-party testing lab analysis facility to complete an analysis of the compost parameters and materials during the Performance Test.

- d. The following locations and number of samples will be tested as directed by the Supplier:
 - Feed Stock Material
 - Initial Mix
 - End of Phase 1
 - End of Phase 2
 - End of Phase 3
 - Storage Materials minimum 30 days
- e. The following constituents will be tested:
 - Bulk density
 - pH
 - Moisture content
 - Nitrogen, phosphorus, and carbon
 - Bacteria: salmonella or fecal coliform
 - CO2 respiration
 - Maturity
 - Metals

Services of the Supplier's Representatives

- A. Provide assistance during installation to include observation, guidance, and instruction of Supplier's recommended assembly, erection, installation, and application procedures.
- B. Provide inspection, checking, and adjustment, as required, for equipment to function as guaranteed by the Supplier.
- C. Provide final wire terminations for all wiring inside any cabinets of components provided by the Supplier, with the exception of the final power connection to the main power distribution center.
- D. Provide an authorized representative of the Supplier to revisit the facility, as required, to correct problems within the Supplier's scope of supply and until installation and operation are acceptable to Sukut and as guaranteed by the Supplier.
- E. Resolve assembly or installation problems attributable to or associated with equipment and systems until acceptable to Sukut or the COSD.
- F. Coordinate PLC communications from the PLC-supplied to the site operation's manager computer or handheld device. Provide all communication cables necessary for complete working systems. Provide surge protection on all communication ports as necessary. Provide all special interface modules necessary for complete working systems. These shall include all required cables and connectors.
- G. Provide on-site assistance during functional testing, initial startup, and performance testing as specified until acceptance by Sukut.

- H. Provide on-site training of the Sukut's representative and Operator's personnel in the operation and maintenance of the product as specified herein.
- I. In coordination with Sukut, provide the services of an authorized representative of the Supplier on-site for the minimum durations noted below. The number of days indicated below will be provided on an eight-hour-day on-site basis and will be in addition to travel time. The minimum service duration is as follows:
 - 1. Purpose: SG Bunker® System components
 - 2. Installation supervision
 - a. Below ground: three days with one person a day
 - b. Above ground: three days with two people a day
 - 3. Functional Testing: three days with two people a day
 - 4. Performance Testing: 21 days with one person a day
 - a. Sampling: six to twelve samples of one Bunker® plus shipping and handling
 - b. Operator Personnel Training:
 - Training 1: three days with two people/day
 - Training 2: three days with two people/day
 - Training 3: two days with two people/day
- J. Provide authorized representatives of the Supplier that are factory trained and experienced in the installation and operation of the SG Bunker® System.
- K. Provide the names and resumes of the authorized representatives 30 days prior to arrival for Sukut approval.

4.1.5. Proposed Safety Program.

Sukut will develop and implement a Project-specific Health and Safety Program in accordance with the requirements listed in the RFP. The Program will detail site control measures, employee training, daily pre-task planning and weekly safety tailgate meetings, reporting unsafe conditions, hazardous material handling, injury prevention and reporting, and more. Currently, Sukut obeys by the following list of safety rules on every project. These rules will be enforced at the Project:

General Safety:

- 1. All persons shall follow these safe practice rules, render every possible aid to safe operations and report all conditions to the Foreman or assigned supervisor.
- 2. Foremen shall enforce every rule, regulation, and order to ensure work is conducted in accordance with safe practices and ensure compliance with regulatory standards. The Safety Director has the absolute authority to stop an operation when an event observed may cause harm to personnel or damage to equipment. Operations will resume after the hazard(s) has been assessed and corrective action has been taken to prevent recurrence.

- 3. When hired, an employee will be briefed on workplace hazards and any special procedures that pertain at the site. The Foreman will evaluate employee's ability perform assigned tasks safely and will provide supervision until it is determined that the employee is proficient. Each employee must have a thorough understanding of the job and tasks assigned. Although an employee may have had experience doing similar work, if an employee feels uncomfortable in doing what is required, he/she has to ask his/her Foreman or Supervisor for additional guidance, so he/she does not cause an injury to him/herself or others.
- 4. Employees will attend daily pre-task planning and weekly safety tailgate meetings while on the job. The Foreman or his designated representative will cover general safety topics as well as new hazards that have been identified. The purpose of this meeting is to share ideas and make it a safe working environment for all employees on the job. If an employee has seen an unsafe act, he/she must feel free to discuss it with the group. An employee will be required to sign an attendance sheet. This documents weekly training for CAL/OSHA.
- 5. If an employee discovers a practice or condition that he/she thinks is unsafe, they cannot ignore it. An employee must report it to their Foreman or supervisor immediately. If an employee doesn't feel he/she can tell his/her Foreman, he/she can tell the Superintendent. If that is not possible, he/she needs to contact the company Safety Director by calling (714) 540-5351. Employees have the right to contact CAL/OSHA, but the company requests the consideration of knowing his/her concerns before he/she goes to CAL/OSHA with his/her complaints. Safety concerns may be discussed at safety meetings or at any time the employee feels there is a safety problem on the job. No reprisals will be taken against him/her for reporting hazardous conditions or practices on the job.
- 6. Caution other employees exposed to hazards created by an employee's work activities. Conversely, an employee must keep out of hazardous areas when not a member of the work crew involved.
- 7. Anyone known to possess or be under the influence of drugs or intoxicating substances which could impair the employee's ability to safely perform assigned duties, shall not be allowed on the job while in that condition. All employees must take a drug test, and their employment is probationary, pending results that indicate they passed.
- 8. Employees are responsible for reporting to work in good physical condition. If an employee is sick, fatigued, or otherwise impaired where assigned tasks cannot be performed safely, he/she must advise his/her Foreman or supervisor.
- 9. All injuries shall be reported promptly to the Foreman so arrangements can be made for first aid or emergency medical treatment. Foremen are trained in first aid, and first aid kits are available on all company trucks at the site. Emergency medical support (911) will be called when an injury is considered serious. If an employee is trained in first aid, he/she is asked to render immediate help to the best of his/her ability. An employee, however, does not do more than he/she is trained for and if the patient is conscious, an employee has to ask permission before he/she provides treatment. An Employee must not attempt to move

- a seriously injured person unless they are exposed to further injury from fire, falling objects, or other life-threatening hazards.
- 10. Employees reporting injuries or illnesses related to work must sign a Worker's Compensation Form DWC-1. If he/she is unable to sign the form at the time of the accident, a form will be mailed to him/her for signature. An employee has sign and return it to the address indicated. This will assist in coordinating his/her benefits.
- 11. Whenever company equipment is damaged, a Supervisor's Accident Investigation Report will be completed by the job Foreman. An employee must immediately report damage he/she caused or witnessed being caused by others. The Foreman and/or Mechanic on site will determine if equipment can continue to be operated safely. If not, the repairs will be made before releasing equipment back on the job.
- 12. Horseplay, scuffling, reckless driving on the job site, and other acts which tend to have an adverse influence on the safety or well-being of employees shall be prohibited.
- 13. All employees must maintain good housekeeping in their area and discard trash in designated containers. They cannot or leave scrap or other objects that may cause damage on ramps, runways, stairways, or designated paths of travel.
- 14. Whenever tasked to lift heavy objects, an employee must use proper lifting techniques to prevent back injury. An employee's back must be kept straight with legs bent, using the large muscles of the legs instead of the smaller muscles of the back. If the load is over 50 lbs. or the dimensions of the load make it awkward for one person to handle, an employee has to use common sense and get assistance. If the load is too heavy to handle manually, then an employee must stop and request help from his/her supervisor. Forklifts, cranes, and heavy equipment are readily available for material handling tasks.
- 15. All employees must park only in assigned areas and ensure their vehicle is away from work operations. If they park on a slope, they must remember to set the parking brake to keep the vehicle from rolling.
- 16. Before excavating a street or an area on a job site, the Foreman shall ensure that dig alert has been notified. An employee should not manually dig or operate excavating machinery unless he/she has checked with the Foreman to see the area is clear of underground hazards.
- 17. Materials, tools, or other objects shall not be thrown from buildings, structures, or cliffs until proper precautions are taken to protect others below from falling objects.
- 18. All employees must know the location of safety cables, harnesses, and other safety gear that might be required to rescue their co-workers in an emergency.
- 19. Whenever blasting is planned at a site, the job Foreman will brief employees on the time of the shot as well as safe locations. Signals used by the blast crew will be briefed, and it

is an employee's responsibility to move to the safe area when signaled. The blasting Superintendent retains total responsibility for the site during the conduct of the blast. All persons on site, including management and the Foremen shall follow his instructions.

Personal Protective Equipment (PPE):

- 1. Employees are required to use all PPE and devices designated by the Site Safety Plan. Their Foreman will explain items required. These items shall be properly worn to protect employees from the hazards on site. If their feel additional protection is necessary, they should discuss this with their Foreman.
- 2. All employees shall wear hard hats while in the work area. Operators in machines with open cabs, or closed cabs with windows or doors open, shall wear hard hats during operation. Those in machines with closed cabs are exempt while in the cab, however, when they dismount, they must wear their hard hat. High visibility shirts vests, or jackets meeting ANSI 107-2004 Class 2 standards shall be worn by all workers on the ground to make them more visible. Employees operating or working around machinery, power tools, or in other areas with high noise exposures shall wear earplugs. Anyone who enters the boneyard shall wear safety glasses. Mechanics, laborers, and others who strike objects with a hammer, grind metal, weld, flame cut or are otherwise subject to eye injuries must wear a face shield in addition to safety glasses while the exposure to injury is present.
- 3. Boots providing ankle support must be worn to prevent injury from walking on rough terrain and prevent ankle sprain when dismounting heavy equipment. Shoes worn must have sufficient sole thickness to prevent punctures from sharp objects and when assigned duties where heavy loads must be handled, the worker shall wear safety toed boots. Suitable hand protection shall be worn when manual labor is performed, and those handling solvents or other hazardous liquids shall wear gloves resistant to the material types being used.
- 4. Employees conducting work in the field are encouraged to use dust masks provided. The Respiratory Protection Program outlines individual responsibilities for Voluntary Use. Some employees will work in conditions requiring Mandatory Use and special provisions of the safety plan will apply.

Machinery and Equipment:

- 1. Seat belts are mandatory whenever operating off-road heavy equipment. Operators must not allow others to ride on equipment as passengers. Getting on and off a machine while in motion is prohibited.
- 2. Heavy equipment operators must check assigned machines, mobile and stationary, before operation to identify mechanical faults. Safety systems including back-up alarms, emergency stop devices, seat belts, braking systems, fire extinguishers, etc., found defective must be reported immediately. The machine may not be operated until the defect is checked and corrected by a mechanic. At the end of shift, another "walk-around" is required. An employee must report all maintenance problems to the Foreman and not operate equipment if he/she feels the problem jeopardizes safety.

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- 3. Prior to entering the work area, Operators shall check the brake systems, service and parking, on their equipment. If brakes do not hold, they must return to the boneyard immediately, and not operate the machine until the condition has been corrected.
- 4. Before leaving motorized equipment, an employee must ground the blade, bucket, can, slope board, etc., and secure the parking brake. Whenever possible, an employee should avoid parking equipment on sloped surfaces.
- 5. Operators shall not back-up scrapers unless another worker visually clears and signals movement. Employees on the ground must stay clear of all mobile equipment as it moves on site, noting the danger of equipment suddenly backing. An employee must always maintain eye contact with the operator, acknowledge by using a raised hand signal and never approach a machine from the rear.
- 6. Operators should take extra caution in dangerous areas such as the edges of deep fills, cuts, banks and steep slopes.
- 7. All equipment will be operated within the manufacturer's specifications for safe operations.
- 8. Before filling an excavation, the equipment operator is responsible to check to see the area has been cleared of personnel and equipment, and it is safe to back-fill. Excavating equipment shall not be operated near tops of cuts, banks, and cliffs if employees are working below.
- 9. When loading where there is a probability of dangerous slides or movement of materials, the wheels of tracks of excavation equipment should be turned in the direction which will facilitate escape in case of danger, except when the position of the wheels or tracks would cause a greater operational hazard.
- 10. When equipment requires repair, it must first be completely shut down; electrical equipment must be de-energized and locked out while mobile equipment is tagged out. Locks and tags indicate equipment is "out-of-service" and may not be started or moved. Even if the machine is not tagged, operators must do a walk around inspection to visually check for anyone on top or under the machine when it has been idle (start of shift, lunch, break, etc). An employee can never assume a machine is clear unless he/she has checked it.
- 11. During noon service and at the shift's end, the Mechanic Foreman shall ensure cones are placed at the front of the equipment line. This signals that all equipment in the line is temporarily out of service, and no operators are allowed in the cabs of machines. Mechanics and oilers can work as required and when equipment is placed back in service, the Mechanic Foreman shall be responsible for removing cones. Cones shall not be removed until the equipment line is clear of all mechanics. When cones are removed, it is the signal for operators to enter their cabs and go to work.

- 12. Guarding is required on any rotating machinery with pinch points that are within the reach of employees. The general rule is that all pinch points lower than seven FT must be guarded. An employee must stay clear of unguarded machinery and report this condition to his/her Foreman immediately. An employee cannot try to correct this type of problem while machinery is in operation.
- 13. Employees working with air compressors, hydraulic jacks, and other pressure devices must ensure that fittings and lines are rated for the application's pressure. Connections must be checked for security prior to use, and if a pressure line breaks, an employee must immediately clear the area to ensure that no one is in the path of a whipping hose. Fluid pressure lines must be bled prior to disconnecting fittings.
- 14. Workers shall not handle or tamper with any electrical equipment, machinery, air or water lines in a manner not within the scope of their duties, unless they have received instructions from their Foreman.

Cranes, Hoists, and Jacked Machinery:

- 1. Employees must stand clear of suspended loads, raised buckets, or blades. They must not crawl under mobile equipment unless it has been tagged out of service and has been properly blocked, chocked, and secured. Mechanics will ensure that all jacked equipment is adequately blocked to prevent it from dropping or sinking into soft soil.
- 2. Work must be planned and supervised to prevent injuries when handling materials and lifting loads. Qualified Riggers are required to rig or supervise rigging for overhead loads. The Rigger shall ensure load chains, hooks, slings, and other gear is in serviceable condition and be rated for the load being lifted. Employees shall never use general purpose or tie down chains to lift an overhead load. Grade 8 chain and Grade 8 hooks are the only approved chain type lifting devices. An employee must inspect wire rope slings for broken wires or deformations to the cable. Fabric slings shall not be used when cuts, fraying or other excess wear is present. If an employee notes any of these conditions, he/she must get his/her Foreman to inspect it further prior to use.
- 3. Only authorized employees shall operate cranes or hoisting devices. Such authorization makes those employees responsible for the lawful and safe operation of the equipment assigned. Cranes shall never be used for side pulls or lifts that can affect stability or overstress equipment. Outriggers must always be used, and they must be properly blocked. Crane operators will ensure all maintenance and safety items for the crane or hoist are checked prior to its first use each day. Inspections are recorded on the Crane Operator's Daily Inspection Log. An employee must hoist all loads gently, and never exceed the manufacturer's load chart for any lifting condition. If a load appears unsafe, the operator should stop, stabilize, and lower the load. He/she must correct the condition before attempting to re-lift the load.

- 4. Only designated employees, properly trained and certified shall operate forklifts. Foremen shall ensure that employees have proof of current certification on the machine assigned to operate.
- 5. Riders are not allowed on forklifts, cranes hooks, or crane loads.

Electrical Hazard:

- 1. Employees should be aware of electrical hazards. Whenever overhead power lines exist, they have to maintain at least a 10FT lateral clearance whenever operating equipment; they do not operate equipment directly beneath live wires. If lines above 50,000V are present, separation distance must be defined by the utility company.
- 2. Generators that exceed five Kw capacity must be properly grounded using an earth ground, and all power cords used must be rated for the service load. Grounding rods must be placed eight FT deep and connected using 10 AWG stranded copper cable.
- 3. All extension cords must be inspected prior to use, and cords with broken insulation shall be repaired or replaced. Three prong connections must have all pins in place, or the cord is considered unserviceable.
- 4. All electrical receptacles must be protected by Ground Fault Circuit Interrupt devices. Before use, the GFI shall be tested to ensure it trips using the test button.
- 5. Welders without overhead cover must cease welding during periods of rain to prevent shock hazards.

Fire Hazards:

- 1. Employees must constantly practice fire prevention. The Foreman will advise if there are "No Smoking" restrictions and penalties. Dry conditions present extreme hazards and brush fires can sweep through an area faster than anyone can run. If an employee observes a fire, he/she must report it to the Foreman immediately.
- 2. When transferring fuel or refueling equipment, an employee cannot allow an open flame or any source of ignition within 25 FT of the operation. "NO SMOKING" and "FLAMMABLE" signs must be posted in areas containing combustible materials.
- 3. Oxygen and acetylene cylinders must be capped when stored or transported. Cylinders with regulators mounted may be transported without caps only when properly secured in cylinder mounts on welding and mechanics' service trucks. Standing cylinders must be chained to prevent tip-overs in storage areas, and fuel gas and oxidizers must be separated by a distance of at least 20 FT.
- 4. An employee should never use any type of oil or petroleum substance on an oxygen regulator or oxygen gauge. Acetylene must be used at pressures below 15 psi, and a fire extinguisher must be present in all hot work areas. An employee should never use a torch unless he/she has been properly trained.

- 5. When welding or cutting, an employee must ensure that hot sparks and slag do not come in contact with flammables. An employee should always have a fire extinguisher staged for immediate use if a fire must be contained.
- 6. Oily rags and waste shall be stored using closed metal containers labeled "FLAMMABLE".
- 7. No burning, welding, or other source of ignition shall be applied to any enclosed tank or vessel, even if there are some openings, until it has first been determined that no possibility of explosion exists and authority for the work is obtained from the Foreman.
- 8. An employee should never use gasoline for cleaning and flammable fuels for starting equipment or for "warm-up" fires.
- 9. Fire extinguishers are available on heavy machinery and all company trucks at the job site. They should be used in containing fires before they spread. If an employee has expended, or partially expended a fire extinguisher, he/she must return it for a recharge. Employees assigned vehicles that carry fire extinguishers are responsible for checking that they have a full charge and are within one year of the last test date; this shall be checked monthly. Employees must advise their Foreman immediately to coordinate a replacement. If they feel there is a need for a fire extinguisher in their work area, they must report this to the Foreman.

Power and Hand Tools:

- 1. An employee must use hand, power, and special tools as they were intended. If assigned a task that requires use of a tool, he/she does not know how to operate safely, he/she must advise his/her Foreman or supervisor before proceeding; training will be provided. An employee must only use tools appropriate for the job and cannot not make substitutions without first assessing the risk and taking proper precautions.
- 2. An employee must not use a screwdriver as a chisel. He/she cannot not substitute a pipe wrench for a box end. An employee must not alter wrenches or ratchets by using "cheater bars". An employee must never use a plated socket in an impact application. He/she may use files as designed with a handle and not use the brittle tool to pry or punch.
- 3. All tools shall be maintained in good condition. Damaged tools shall be removed from service and tagged as "defective". They should not be placed back in service until they have been repaired.
- 4. If an employee finds a guard missing, or other condition that is not safe, he/she must report the defect to his/her Foreman immediately and not use it until it has been repaired.
- 5. An employee must never attempt to lift an electric tool by the power cord. He/she must use a rope to hoist if it cannot be handed to someone above. An employee must always check for proper ground, and inspect power cords for cuts or frays to insulation. He/she cannot

- not use a tool with these defects, and repair or report the deficiency, and use it only after the condition has been corrected.
- 6. When using a grinder or other tool that produces metal fragments, sparks, or spatters liquid debris, an employee must ensure to use proper eye protection. Before using the tool, an employee must clear the area of co-workers who may be unprotected.

Ladders and Scaffolding:

- 1. Ladders must be inspected before use and cannot be utilized if they are cracked, missing treads, or otherwise defective. Stepladders should be fully open and locked to prevent collapse under load. No employees should ever step on the top two steps of a stepladder. Conventional and extension ladders' feet must be safely secured to prevent slippage and the top of the ladder tied-off to prevent tipping.
- 2. When climbing or descending a ladder, an employee should maintain a three-point contact, which includes two hands and one foot, or two feet and one hand. An employee must not attempt to climb a ladder while holding tools or other items that may prevent a good handhold; tools may be lifted with a rope to ensure safety.
- 3. Before using scaffolds or platforms, an employee must be sure they are safely secured with proper planking and handrails installed. He/she cannot not move rolling scaffold with workers aboard. Scaffolds or platforms 7 ½ FT or more above the ground shall be equipped with guardrails and toeboards. Any damage to scaffolds, falsework, shoring, or other supporting structures shall be immediately reported to the Foreman and repaired before use.
- 4. Employees working on elevated, unprotected areas must use an approved safety harness and lanyard system or other approved method of fall protection.

Trenches and Confined Spaces:

- 1. Employees must never enter a trench or excavation five FT or deeper unless it is properly sloped, benched, shored, or shielded. If excavations exceed 20 FT in depth, an engineered plan is required. If an employee sees a cave-in area in a trench or along a slope, he/she must report this to the Foreman immediately so he/she can determine if anyone was in the area and possibly buried. Additionally, employees should never enter a trench that has standing water.
- 2. Employees shall not enter manholes, trenches greater than four FT deep, pipes, underground vaults, chambers, tanks, silos, or other similar places that have the potential for hazardous atmospheres, unless it has been determined by the designated Competent Person that it is safe to enter. Procedures outlined in the Confined Space Entry Plan will be used to ensure hazards are assessed and all required precautions are taken before exposing employees to confined space risks.
- 3. Ladders provide an emergency escape from excavated areas and are required in trenches over four FT deep. Ladders must extend beyond the top of the trench by at least three

- FT. There must be a ladder within 25 FT of any employee in the trench. All employees must always remember to secure the ladder so it will not tip over; it is their emergency escape in case of cave-ins.
- 4. Employees must place guards around or over all openings, excavations, manholes, or any other opening where a hazard of falling-in exists.

HAZMAT:

- 1. When a job site has known or suspected hazardous materials, a site assessment will be made to determine what chemicals and concentrations are present. The Foreman will advise employees of what these chemicals are whenever they exist. The company's policy does not permit employee exposure to toxic substances above permissible levels established by OSHA. Everyone has different levels of tolerance, and if someone feels sick or has unusual symptoms, even though the levels are safe for others, they must report this to their Foreman immediately. He/she will reassign their work in another area if possible.
- 2. Most job sites have common petroleum fuels, lubricants, and other shop materials classified as hazardous materials. If an employee wants to know how they should be handled, their effects on him/her if he/she were splashed, or has other questions concerning HAZMAT, his/her Foreman has a list of material safety data sheets for the job site. A more detailed list can be obtained by calling company Dispatch at (714) 460-1027. The Hazards Communication Program outlines responsibilities, procedures, and training required for employees exposed to HAZMAT.
- 3. Employees shall cleanse thoroughly after handling hazardous substances and follow special instructions from authorized sources.
- 4. Employees should consider any blood spilled on site as a hazardous substance. Employees must not attempt to clean up blood spilled without first checking with the Foreman.

Vehicle Safety:

- 1. Equipment and vehicles must be operated in accordance with DMV's "Rules of the Road" (State of California Vehicle Code, Division 11) and employees must apply them to vehicle right-of-way, crossing at intersections and other conditions pertaining to traffic flow on the job site. Employees will obey these rules unless otherwise instructed by the Foreman. If an employee does not know the rules of the road, he/she should ask his/her Foreman. Field traffic signs posted are to be given the same respect as those on a public highway.
- 2. Seat belts must be worn by all occupants when operating company vehicles on and off road. This requirement and all other traffic rules must be followed when operating company vehicles on public streets and highways.
- 3. Employees riding in vehicles must use passenger seating. Employees shall not ride in the bed of trucks unless passenger seating has been installed. The driver is responsible for ensuring all passengers are seated and doors and tailgates are closed before moving.

- Vehicles will be driven at safe speeds permitting a stop without injury to passengers or damage to cargo.
- 4. Drivers transporting loads shall ensure loads are properly blocked, braced, and tied down. During off-loading, employees must stand clear to preclude injury if the load were suddenly released and rolled laterally.
- 5. When towing a trailer, the driver is responsible for ensuring the trailer is properly hitched, safety chains are secured and electrical connections are made for trailer safety systems. This includes lighting, brakes, etc. Trailers are restricted from over-the-road use unless all systems have been checked as functional.
- 6. Drivers are responsible for installing a safety flag before traveling on the site. If the flag or mount is missing, they must report it to the Foreman so the problem can be corrected.
- 7. No field employee is allowed to drive a company vehicle on a public street unless he has been authorized by a Field Superintendent. Employees assigned company vehicles are responsible for reporting all violations of the CA Motor Vehicle Code assessed to their personal driving record. The company may restrict vehicle privileges when an individual is found to be non-insurable under the company's auto insurance policy, and provisions of Sukut's Fleet Vehicle Safety Program shall be followed.

Office Safety (Field and Off-Site):

- 1. Employees must watch their step and use caution on tile, linoleum, and other slick surfaces. They should be watchful of all slipping and tripping hazards. They should not place chairs, stools, footrests, or extension cords in walkways. Desk and filing cabinet drawers should be closed when not in use to prevent snags on loose clothing. Employees should never bend or work under drawers that are open as they may bump their head.
- 2. Water, soda, or coffee spills should be cleaned at once to prevent slips. Rubber bands, paper clips, and pencils on the floor can be like banana peels, so housekeeping is essential. Employees should place waste baskets within easy reach but out of the way of foot traffic.
- 3. Employees must not use chairs, boxes, or other makeshifts to reach high places. They should use a stepladder to prevent falling. When using stairs, they should use the handrails to aid in balance. Employees should not walk up or down stairs with armfuls of supplies that block their view or tip them off balance.
- 4. Employees should use caution when handling scissors, knives, letter openers, staplers, and other sharp or pointed objects.
- 5. Employees should grasp drawers and doors by their handles to eliminate pinched fingers when closing.
- 6. All electrical office machines must be grounded; and those that are not, must be reported. Employees should be watchful of frayed cords and connections; unplug defective

items and use them only after the condition has been corrected. They should not place liquid beverages on desks where they could spill into keyboards, calculators, or other electronic devices. Employees should not stack boxes, supplies, or combustibles within four FT of electrical distribution panels; fire code requires this so panels may be accessed in an emergency.

- 7. When leaving a building, an employee should take a moment to re-adjust his/her eyes to changes in light.
- 8. In rainy, wet weather, employees must use caution while walking on wet surfaces, being careful not to slip.
- 9. Employees must report any unsafe condition to their supervisor that could prevent a loss.

4.1.6 Proposed Emergency Response Plan.

Sukut personnel must respond appropriately to emergencies whenever the unexpected happens. The goal and first priority in responding to an emergency is prompt quality care and treatment for anyone injured. Following the plan will also ensure company assets are protected, and the company's reputation is maintained by conducting effective media relations if members of the press arrive.

The *Table 1, Emergency Action Checklist*, below outlines steps for initial steps in responding to an emergency.

Table 1, Emergency Action Checklist:

First on Scene	 Check the scene; do not attempt rescue until the scene is determined safe for entry Evacuate non-essential personnel to a safe area, upwind if necessary Contact Supervisor
Administer First Aid	 Supervisor or other trained worker assesses injury; administers first aid as required Responders should guard against transfer of body fluids by use of gloves, breathing barriers, etc. Supervisor ensures victims with serious injuries are not moved unless it is required to relocate them away from fire, explosion, or other extreme danger
Call for Emergency Services (Medical, Fire, Police, etc)	 Supervisor ensures 911 is called immediately for outside emergency services (medical, fire, police) Caller remains on the line until the 911 operator announces it's OK to hang up If Supervisor designated a caller, the caller reports back to Supervisor when call has been completed Supervisor designates employee(s) to the site or facility entrance(s) to meet and escort emergency service vehicle(s) to the incident scene

Supervisor Notifies Vice President, HR	 Call the Vice President, HR, Conni Zuniga at 714.460.1041 If no answer, leave a message and redial the Sukut office at 714.540.5351
Supervisor Secures Incident Scene	 Keep personnel clear of the incident scene Account for all personnel on the project and hold at the site or facility if required Preserve evidence; if there is a fatality or serious injury do not move body(s), equipment, or other evidence If HAZMAT is released, contain the spill to prevent further spreading If outside emergency support services are summoned, the Supervisor will meet the response team and brief them on the status of workers requiring aid Work with the Incident Commander and provide a safe area for his support team to establish a base of operations as required
Supervisor Initiates Pre- Investigation	 Segregate witnesses and get initial statements Collect the facts (Who, What, When, Where, and How) Take photos of the scene for future documentation
Supervisor Acts as Temporary Spokesman Until Primary Arrives	 Meet and greet the press; designate a safe staging area (out of direct view of the incident scene) Acknowledge an incident has occurred, but do not release details or speculate as to injuries, death, or damages that may have occurred Notify the Press when to expect the Primary Spokesman to arrive, details will be provided then

Following any incident involving serious injury, equipment, or property damage, the Safety Director will conduct a Root Cause Incident Investigation. The goal is to begin the investigation within one business day of the incident occurring.

The Supervisor at the scene must assume the role of leadership, care for injured workers and control the site until outside support arrives. Information gathered during the pre-investigation and preservation of evidence is absolutely critical. Our Team has developed a table, shown below as *Table 2, Responsibilities for Response to Emergencies at the Miramar Landfill*, with assigned report responsibilities in case of an accident at the Project.

Table 2, Responsibilities for Response to Emergencies at the Miramar Landfill

Title	Responsibilities
CEO	Assembles information and develops an action plan
	 Determines if emergency qualifies at an ACIG SWAT action and notifies Vice President, HR if so
	 Serves as the Primary Spokesman for release of information to the Press
	Visits family members in the event of fatality
CFO	Acts as First Alternate Team Leader when CEO is unavailable to respond

Vice President,	A 4 C 1 1 4 T I 1 1 CEO/CEO '111
· · · · · · · · · · · · · · · · · · ·	Acts as Second Alternate Team Leader when CEO/CFO are unavailable
Operations General	to respond
	Assists project Foremen as required
Superintendent	Redirect construction workers and equipment as required
Equipment	Assesses damage to equipment assets
Superintendent	Redirects maintenance resources as required
Project	• Identifies potential site-specific hazards and conditions and develops an
Manager	Emergency Action Plan for the Project; this becomes an integral part of
	the Site-Specific Safety Plan
	• Ensures the Emergency Action Plan is briefed to all workers at the site
	Contacts the client to establish lines of communication
	Briefs Client on the assigned Team and response actions planned
Project	Serves as Scene Commander at the Jobsite
Superintendent	Administers first aid and coordinates outside emergency support when
or Foreman	required
	Controls access and security of the Jobsite
	Accounts for all personnel at the Site
	Identifies witnesses and gets initial written witness statement(s)
	Preserves evidence
77' D '1	Contains spills
Vice President,	Coordinates medical treatment with providers as required
HR	• Contacts the CEO, Vice President, Operations, CFO, Safety Director,
	Project Manager, and General Superintendent
	Contacts Legal Counsel to authorize an internal investigation
	Contacts insurance broker to report damages Contacts ACIC Contacts in the contact of the c
C.C. D.	Contacts ACIG for SWAT if required
Safety Director	Assists Scene Commander as required
	Assumes role as Chief Investigator for Root Cause Analysis Team
	• Documents the incident for health, safety, and environmental concerns
	Makes mandatory report to DOSH in the event there are serious injuries an feet line.
	or fatalities
	• Acts as the primary contact for DOSH, DTSC, SCAQMD, RWQB, and
Dianetahan	other agencies as required
Dispatcher	Coordinates the purchase and delivery of emergency supplies
IT Director	Protects and preserves IT resources as required
	Redirects communications as required to maintain operations
	• Determine status and record employee information message on the
	remote Hotline 614.470.1033

Emergency evacuation is a critical step following a catastrophic incident that disrupts operations at a field site. All workers at the Site who could be affected, including Subcontractors and Client representatives (Consultants and Inspectors) who are present at the Site, must be accounted for and briefed on the situation at hand.

Witnesses should be retained at the Site, so face-to-face interviews can be conducted with the Investigation Team.

What To Do in the Event of a Natural Disaster

There is a potential for natural disasters like earthquakes, brush fires, flooding, thunderstorms, and tornadoes throughout the Western States. Workers at the Project shall be informed about their actions for each.

Earthquakes: earthquakes hit suddenly without warning, but there are a few things that you can try to do to survive and help others:

If an individual is inside, he/she should:

- 1. Get under a desk or table.
- 2. Stay away from windows and glass dividers.
- 3. Hold on to try to prevent the desk/table from moving.

If an individual is outside, he/she should:

- 1. Stay away from buildings, trees, and overhead wires.
- 2. Lie flat until the shaking stops.
- 3. If in a motor vehicle, stay in the vehicle. If moving, slow to a stop, but stay clear of an overpass and underpass areas and do not park in a tunnel.

After the shaking stops, an individual should do any or all of the following items that may be appropriate for your location:

- 1. Check for gas, water, and sewer breaks.
- 2. Check for downed electric and telephone lines and shorts.
- 3. Turn off appropriate utilities.
- 4. Check work location for structural damage and potential safety problems during the aftershocks, such as cracks around the columns, foundations, or decks.
- 5. Contain spills and report releases for proper disposal.
- 6. Turn on a radio and listen for instructions from local authorities or, on-site, await instructions from project authorities.
- 7. Do not use the telephone except for emergency purposes.

Brush Fires: brush fires have become a severe problem in California, resulting in millions of dollars of property damage and loss of life. Best Practices contained in the Fire Protection and Prevention Plan shall be integrated into all work performed at the Project.

In addition, the Project Superintendent shall keep everyone on site advised about the fire potential and coordinate necessary activities between the Project and the local fire authorities.

Flooding: meteorologists usually predict the potential of flooding, and it is reported on television news weather reports or in the paper. However, some projects lie in drain basins that drain urban surface areas. When a water main is struck offsite, there might be a potential risk of flooding at

Sukut's Project. In addition, creeks and rivers that lie below watersheds may rise rapidly and cause flooding.

Flash flooding could potentially occur if heavy rains fall within the watershed area. As such, trenches and other deep excavations near drainage courses are potential hazards for rapidly rising water. Workers shall be evacuated from excavations when flash flood warnings are issued or when heavy rains are visually spotted.

An individual may perform the following activities to help mitigate damage and loss in the event of flooding:

- 1. Do not put stored material and debris in drainage areas, and secure wooden material from movement to the extent possible.
- 2. Pay particular attention to the location of fuel and flammable storage so that it is not displaced and transported by floodwaters.
- 3. Move equipment to higher ground and be sure it is properly fueled and ready to go to help in remedial work, as necessary, following a flood.
- 4. Follow environmental practices as they relate to soil conservation and runoff to minimize damage from flooding.

Thunderstorms: thunderstorms can rapidly develop into severe storm systems. They have the potential for high winds and lightning as they pass through the area. Lightning commonly can strike up to 10 miles ahead of the storm clouds. Generally speaking, if an individual can hear thunder following a flash of lightning, he/she needs to take cover.

If an individual is operating a machine, he/she should move to low ground or in the open, away from taller objects like trees, light poles, etc. He/she should ensure they have the doors and windows closed and stay seated without holding onto the steering wheel or control levers.

If on the ground, the best defense is to take shelter in a solid building. An Individual should avoid using corded phones, computers, or other devices that are plugged into power outlets. He/she should stay near the middle of the room and avoid standing next to windows or open doors.

If no buildings are available for shelter, an individual may move to lower ground and crouch but do not lie flat on the ground. He/she should stay away from creeks and open bodies of water as well as tall objects such as trees and light poles, barbed wire fences, and other objects that could conduct electricity.

An individual should wait the storm out and not leave his/her protected area until he/she can no longer hear thunder.

After any of the natural disasters described above, there is the potential for high voltage overhead power lines to be down in the area. An individual must the utility and report the hazard immediately. All downed lines must be considered live until the utility confirms they have been de-energized, and it is safe to enter the area. The personnel should keep clear until the "all clear" is announced.

What To Do in the Event of a Utility Strike:

Above Ground Power Lines: whenever working in the vicinity of lines and the poles or towers that support them, special precautions shall be made to separate workers and heavy equipment operations from the hazard. All employees must adhere to the clearance distances outlined in the *Table 3, Voltage and Associated Clearance Distances* below:

Table 3, Voltage and Associated Clearance Distances

Voltage (Phase-to-Phase)	Separation Distance (FT)	Crossing Clearance (FT)
600 50,000	10	6
over 50,000 75,000	11	10
over 75,000 125,000	13	10
over 125,000 175,000	15	10
over 175,000 250,000	17	10
over 250,000 370,000	21	16
over 370,000 550,000	27	16
over 550,000 1,000,000	42	20

If a live power line is struck, or an arc from the line to a machine occurs, the equipment Operator must remain in the cab and try to summon help by signaling others nearby or by using radio, phone, or whatever form of communication is available. The Project Superintendent must call the utility immediately to report the incident and request assistance.

If a line is down or is in contact with the machine, it must be considered live, and the Operator must remain in the cab until the utility confirms it is de-energized. If an Operator must exit the cab due to fire, explosion, or another emergency that risks life safety, he/she must do the following:

- 1. Jump clear of the cab to the ground but do not hold on to any part of the machine.
- 2. Land on two feet; if he/she falls forward or rolls, he/she may be shocked.
- 3. With feet together, take short hops (bunny hops) away from the machine or downed power line until a safe distance away.
- 4. Do not approach the area until the utility has confirmed the line has been de-energized.

Underground Installations: underground utilities that transfer electrical, gas, oil, steam, communications, water, or sewer can present an emergency when struck. Electric and gas utilities have the greatest threat to life safety, but any struck utility can also represent an interruption of service to the public. Representatives from the respective utilities will meet Project work crews in the field to mark and verify underground locations prior to any excavation. Excavation crews shall use manual methods to locate obstructions and all alternate methods for location shall be preapproved by utility owner(s).

In the event a utility is struck or damage is observed, the Project Superintendent shall notify the utility owner immediately; if the utility cannot be contacted, he must Call 911. All persons in the work area shall be immediately evacuated to a safe area. Emergency response crews shall control the scene until repairs are completed, and no Project workers shall return to the excavation until "all clear" is announced by the Project Superintendent.

Please refer to *Figure 7, Construction Project Schedule*, on the next page, outlining design activities and associated timing durations for the Project. The cost-loaded schedule will be provided by Sukut/Tetra Tech within 10 working days following the bid opening as per Phased Funding Provisions stated in the RFP, page 443. Any pricing information outlined in the schedule, which is part of the Technical Proposal, will serve as grounds for disqualifications, as outlined in section 2.6.1. page 8 of the RFP.

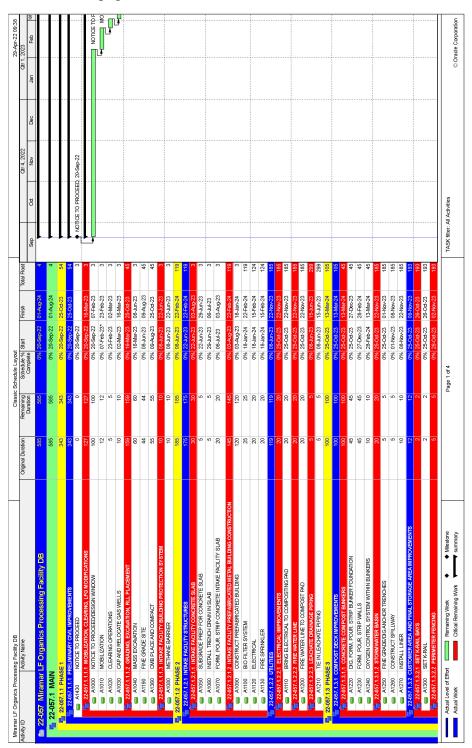


Figure 7, Construction Project Schedule (1 of 4)

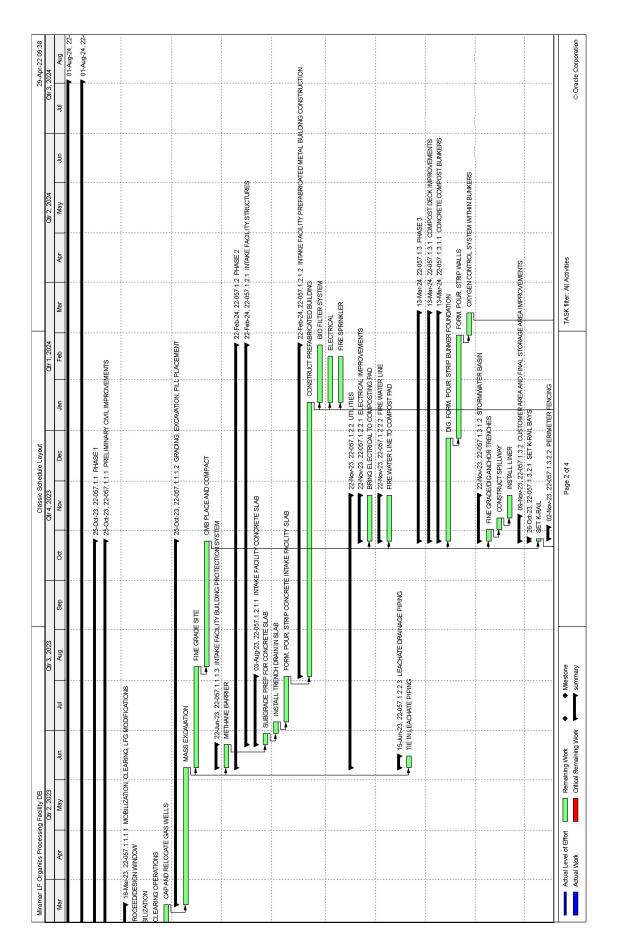


Figure 7, Construction Project Schedule (2 of 4)

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Figure 7, Construction Project Schedule (3 of 4)



Figure 7, Construction Project Schedule (4 of 4)

4.1.8. Traffic Control Management.

Please refer to Figure 7, Traffic Control Plan, below for the details of the routed traffic flow on the Project.

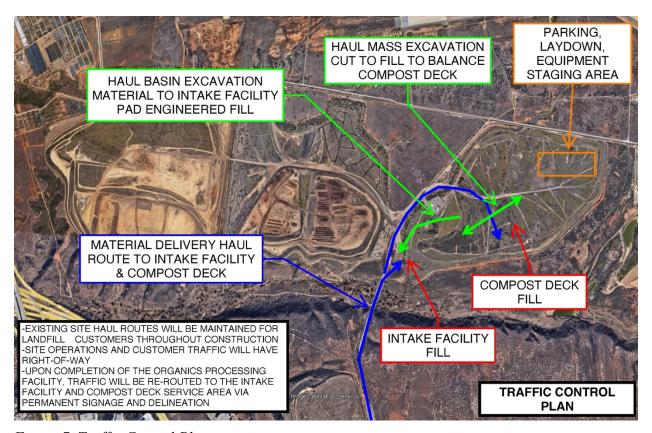


Figure 7, Traffic Control Plan

4.1.9. Community Impact.

Our Team understands the importance of avoiding adverse impacts to the surrounding community. As such, in collaboration with the COSD and Miramar Landfill Operations Staff, we will develop a Project-specific public outreach/communications strategy to ensure that any site impacts will be communicated in advance to the Site's Operation Team and the public who will be accessing the Site on a regular basis. A robust public Outreach Program involving newsletters, media, digital tools, or community meetings is not expected to be necessary. Instead, the Team's efforts will be focused on minimizing site traffic flow impacts, fugitive dust, and nuisance noise throughout construction. Sukut's construction approach will allow for all Project operations to occur within standard business hours. In the event of increased public interest or complaints, the Team will work closely with the City's Public Information Officer to address and mitigate any public concerns.

5. Equal Opportunity Contracting Program.

5.1 Required EOCP Information.

Sukut is an Equal Opportunity Employer; we understand the COSD and its principles of equal opportunity in the workplace and subcontracting opportunities. We will comply with the City's Nondiscrimination in Contracting Ordinance, San Diego Municipal Code §§22.3501 through

22.3517; the City's Equal Employment Opportunity Outreach Program, San Diego Municipal Code §§22.2701 through 22.2707, and the Subletting and Subcontracting Fair Practices Act, Public Contract Code §§4100 through 4113. We have attached the Equal Opportunity Contracting (EOC) Work Force Report, with Branch Work Force reports for Orange County and San Diego County. Please see attached *Work Force Report*, located in a separate section for Sukut's statistics.

5.2. Subcontractor Documentation.

Sukut understands the significance of maximizing subcontracting opportunities for all qualified and available firms. We have enlisted the assistance of Small Business Exchange to perform outreach to City of San Diego SLBE-ELBE firms listed on the City's website in accordance with the City's Small Local Business (SLBE) Program instructions. Sukut has included Form AA60 as an attachment with the Good Faith Effort Documentation in this technical proposal, and in accordance with the Solicitation Instructions to Proposers and General Conditions 2.6.1, no pricing information is provided within this proposal. Sukut has provided forms AA15, AA20, and AA30 as attachments showing our list of Subcontractors and Suppliers. Please see attached Good Faith Effort Documentation for a complete list of outreach, efforts, and contact made both by Sukut and Small Business Exchange.

6.0. Presentation and Interview.

The interview and Questions and Answers presentation are not part of the Technical Proposal Write Up submitted to the COSD. Sukut and Tetra Tech will bring all equipment and materials that are required for the presentation.

7.1. Reference Checks.

Please refer to *Section 7.1, Reference Checks*, for a list of completed projects similar in nature and their associated reference contact information.



Project Team: Resumes



TOM WADDEN 3.1.1. Civil, Project Manager

Tom Wadden will serve as the Project Manager, overseeing the Sukut/Tetra Tech Team fulltime. Tom brings 10 years of management experience delivering comparable landfill
construction projects in Southern California. He excels in developing and adhering to costloaded CPM schedules to ensure his projects are completed within budget and on schedule.
Tom has a proven track record of working collaboratively with owners and team members to
devise cost-effective, innovative solutions to deliver project benefits. Further, Tom has
successfully collaborated with other key members of the Sukut/Tetra Tech Project Team on a
multitude of past landfill projects, including Site Manager/Construction
Manager/Superintendent, Don Barnes, Structures Foreman, Doug Allen, QA/QC Manager/
Project Engineer, Cody Schilling, Site Safety / Health Manager, Rick Fraser, Environmental
Compliance Manager, Jami Himes, and Tetra Tech's design Team. This shared experience
among the key members of our Team will eliminate the learning curve that is often presented
when team members are working together for the first time.

WORK EXPERIENCE

2013 – Present: Sukut Construction

Santa Ana, California

HIGHLIGHTED PROJECTS EXPERIENCE

Salton City Landfill Phase 2A – Salton City, CA (2021-Present): Sukut is in progress of building the latest cell for the Salton City Landfill. Project scope includes excavation of 600,000 cubic yards of dirt, placement of select engineered fill into the cell, and deployment of multiple layers of 20 acres of HDPE liner, and accompanying facility tie-ins. Projected contract value – available upon request.

Tree Removal Services Project for the Camp Fire – Paradise, CA (2020-2021): Acting as a managing partner, Sukut entered into a joint venture to remove and dispose of the dead and dying trees that were damaged by the Camp Fire. In total, 300,000 trees that currently pose a hazard to the public will be removed over the next seven to eight months. Total contract amount - \$175,746,000

FRB Bee Canyon Greenery – Irvine, CA (2020-2021): This project consisted of 740,000 cubic yards of earthwork, construction of a 784,000-square-foot asphalt compost deck, a water supply system, fire water system for Orange County Fire Authority, water tanks, lined storm water basin, and miscellaneous civil improvements for the compost greenery at the Frank R. Bowerman Landfill. The project also involved re-routing power for the County's new pump system. Total contract amount - \$6,045,879

Prima Capistrano Greenery – San Juan Capistrano, CA (2020): This project involved moving over 100,000 cubic yards of dirt and providing almost 100,000 square feet of HDPE liner. The project also had several site work items related to wet utilities, gas line piping, concrete work, landscaping, and over a half a million square feet in six-inch asphalt paving. Total contract amount - \$4,341,664

Camp Fire Debris Removal – Paradise, CA (2019-2020): Working as a managing partner, Sukut entered into a joint venture with Goodfellow Bros. and Pacific States Environmental Contractors, the SPSG Partners, to begin a one-year fire cleanup project in Butte County, CA. The Camp Fire went through Paradise, CA back in November 2018, destroying more than 153,000 acres. Sukut was appointed as the Managing Partner and tasked with fire debris removal and hauling of the burned debris. SPSG Partners moved and safely disposed of approximately 1.4 million tons of metals, concrete, ash, contaminated soil, trees, burned vegetations, and other debris generated from the fire. These efforts employed over 1,000 laborers, operators, truckers, and other types of field staff. The SPSG Partners substantially completed the work in the last quarter of 2019, under budget and ahead of schedule. Total Homes - 4,100. Total contract amount - \$405,000,000

Potrero Hills Landfill – Suisin City (2020): Sukut was awarded the mass excavation for the new cell 18 expansion within Potrero Hills Landfill. Project highlights consisted of 300,000 cubic yards of mass excavation, 10,000 cubic yards of waste handling, and the construction of leachate collection system expansion. Total contract amount - \$4,508,000

Wildfire Post Debris Removal – Ukiah, CA (2018): Governor's Office of Emergency Services contract. Sukut provided hazmat crews and coordinated post debris removal repair efforts, backfill, and remaining debris removal for 400 homes. Total contract amount - \$21,553,000

Thomas Fire Debris Removal – Ventura, CA (2018): Cal-Recycle contract. Sukut provided hazmat crews and coordinated debris removal efforts for 600 homes. Total contract amount - \$42,723,000

Atlas Fire Debris Removal – Napa Valley, CA (2017): Sukut provided hazmat crews and coordinated debris removal efforts. Total contract amount – \$2.092.000

Sulphur Fire Clearlake Shoreline Cleanup – Clearlake, CA (2017): Cal-Recycle contract. Sukut provided hazmat crews to perform emergency work to remove burnt debris from the lake and remediate shoreline. Total contract amount – \$1,230,000

RMV PA 2.3, 2.4 & Los Patrones Parkway, San Juan Capistrano, CA (2015 - 2017): Sukut provided mass grading services of 15,000,000 cubic yards to construct Rancho Mission Viejo housing phases 2.3 & 2.4, along with adjacent Los Patrones Parkway. In addition to grading, Sukut performed installation of 14,000 linear feet of storm drain, precast and multiplate tunnels, and concrete soil mixing. Total contract value – \$53,443,000

La Pata Avenue Gap Closure & Camino Del Rio Ext, San Juan Capistrano, CA (2014 - 2015): Sukut provided mass grading services of 12,000,000 cubic yards for construction of a four-lane roadway to connect San Juan Capistrano to San Clemente. The project also included the relocation

of 800,000 cubic yards of waste in an existing landfill, two cast in place bridges, and installation of 10,000 linear feet of storm drain. Total contract value -\$72,741,000

Mojave Solar Facility – Hinkley, CA (2013): Sukut provided mass grading, construction of evaporation ponds, and five miles of cable trenching at this solar plant facility. Total contract value - \$4,888,000

EDUCATION

• Bachelor of Science, Construction Engineering Management, California State University, Long Beach, CA

PROFESSIONAL CERTIFICATIONS

- AQMD Certification
- CPR Certified



DON BARNES

3.1.1. Civil, Site Manager / Construction Manager / Superintendent

Don Barnes is the Site Manager / Construction Manager / Superintendent of Sukut Construction. Don has over 40 years of construction industry experience on both public and private broad range projects, including the construction of numerous landfill projects in Southern California. He has a proven track of successfully prioritizing goals and working with project owners and architects under tight deadlines without sacrificing safety and creativity. Don will be on-site, full-time during the construction phase, and will be responsible for all work needed to construct a high-quality OPF. He will work closely with the Site Safety / Health Manager, QA/QC Manager, and Environmental Compliance Manager to ensure field crews comply with safety, quality, and environmental requirements at all times.

WORK EXPERIENCE

Projects that Don is involved on vary in size, complexity, and values from a few hundred thousand to over 250 million dollars.

1995 – Present: Sukut Construction

Santa Ana, California

PROJECT MANAGEMENT

Strong background in the supervision of large, complex projects. Demonstrates in-depth knowledge of building practices and regulatory compliance issues. Qualified to review and evaluate bid documents, estimate costs, chart projections, write and negotiate contracts, and lead cross-functional project teams. Coordinates activities effectively with responsible parties regarding scope and guidelines.

RELATIONSHIP DEVELOPMENT

Excellent leadership, communication and relationship building skills. Collaborates effectively with engineers, architects, client representatives, building officials, contractors, building managers, inspectors, and other industry professionals. Works jointly with clients to review job progress and address outstanding issues. Provides the highest level of service to clients, earning frequent commendations as a result.

CORE QUALIFICATIONS

- 1. Excellent field construction management, communication, and organizational skills
- 2. Superior decision making and problem-solving skills
- 3. Extensive knowledge of all construction sub trades for effective monitoring
- 4. Deep understanding of blueprints plans and design principles
- 5. Strong understanding of building regulations and laws
- 6. Excellent ability to multitask without compromising quality
- 7. Dispute and conflict mediation/resolution experience

- 8. Great with on-site property inspections and evaluations
- 9. Extensive knowledge of cost and risk analysis

HIGHLIGHTED PROJECTS EXPERIENCE

FRB Bee Canyon Greenery – Irvine, CA (2020-2021): This project consisted of 740,000 cubic yards of earthwork, construction of a 784,000-square-foot asphalt compost deck, a water supply system, fire water system for Orange County Fire Authority, water tanks, lined storm water basin, and miscellaneous civil improvements for the compost greenery at the Frank R. Bowerman Landfill. The project also involved re-routing power for the County's new pump system. Total contract amount - \$6,045,879

Prima Capistrano Greenery – San Juan Capistrano, CA (2020): This project involved moving over 100,000 cubic yards of dirt and providing almost 100,000 square feet of HDPE liner. The project also had several site work items related to wet utilities, gas line piping, concrete work, landscaping, and over a half a million square feet in six-inch asphalt paving. Total contract amount - \$4,341,664

Mid Valley Landfill Unit 4 Ph1 Composite Liner – Rialto, CA (2018–2020): Landfill expansion project which consists of 6.2 million square feet of geomembrane installation, 3.9 million square feet of geosynthetic clay liner, 400,000 cubic yards of low permeability soil placement, 30,000 linear feet of LCRS/LFG HDPE pipe installation, two concrete desilting basins and a leachate pumping, storage, load out and transfer system for San Bernardino County. Projected contract value - \$27,728,663

Altamont Landfill Compost Facility Grading and Drainage – Livermore, CA (2017): Sukut Construction worked closely with subcontractors to move in excess of 700,000 cubic yards of dirt and rock, and to construct a lined two-acre wastewater pond, as well as stormwater improvements to drain 10 acres of the paved active pad and a 27-acre earthen CASP curing pad. Total contract amount - \$8,283,194

Frank R. Bowerman Landfill Phase VIIIIB - 2 Buttress and GWPS – Irvine, CA (2016-2017): Project consisted of constructing a five million cubic yards fill to buttress the north landslide complex and to expand the composite liner system at the FRB Landfill for Orange County Waste and Recycling. Total contract value – \$28,600,000

Sunshine Canyon Landfill Phase 1 Bypass Road and Cell Subgrade – Sylmar, CA (2015): Work for Republic Services consisted of over 300,000 cubic yards of grading, with removals as deep as 30 feet, installation of sub-drain piping, approximately 450,000 square feet of geocomposite drainage liner, construction of 2,200 linear feet HMA paved road and six-acre subgrade preparation for liner project. Total contract value - \$4,100,000



DOUGLAS A. ALLEN 3.1.1. Civil, Civil Grading Foreman

Serving in the Environmental Division as Civil Grading Foreman, Doug leads his experienced field staff and continues to successfully complete a multitude of relevant challenging projects. Working under aggressive time schedules, Doug currently balances client satisfaction from: Waste Management, Waste Connections, LACSD, San Bernardino County, City of Santa Cruz, OCTD, Allied Waste, City of Burbank, City of Anaheim, and County of Tuolumne.

WORK EXPERIENCE

1985 – Present: Sukut Construction

Santa Ana, California

ROLES AND HIGHLIGHTED PROJECT EXPERIENCE

Chiquita Canyon Landfill, Cell 8 Liner – Castaic, CA (2021 - Present): The project includes excavation of 600,000 cubic yards of soil for the construction of a new cell for Waste Connections. Sukut is constructing a ten-foot wide by five-foot deep rectangular channel, trapezoidal channel, along with various other surface drainage improvements. The cell construction consists of a three-layer liner system which is covered on the floor by a low permeability layer, leachate removal system, gravel layer, and one-inch minus protective soil layer. Projected contract amount - \$7,528,000

Bautista Creek Channel Recharge Basin – Hemet, CA (2021 – Present): This project involves the construction of a ground water recharge basin for Riverside County Flood Control. Work includes 30,000 cubic yards of export, construction of 2,500 linear feet of 18-inch water pipe and some minor concrete structures. Projected contract amount - \$1,745,000

Frank R. Bowerman Landfill Southeast Perimeter Access Road – Irvine, CA (2020 - Present): Project consisted of miscellaneous civil improvements within the landfill including 130,000 square feet of paving, installation of an odor control misting system with 5,550 linear feet of steel tubing, metal beam guardrail installation and various drainage improvements. Projected contract amount - \$1,950,000

Frank R. Bowerman Landfill VIIIB-1 and 2 Liner Repair Project – Irvine, CA (2020 - Present): This project includes the removal and replacement of damaged geosynthetic liner and leachate collection facilities caused by the Silverado Fire at the FRB Landfill. Projected contract amount - \$1,745,000

Frank R. Bowerman Landfill East Flank Northern Diverted Channel – Irvine, CA (2021): This project included the mass grading and concrete trapezoid channel construction to re-route stormwater at the FRB Landfill. In total, Sukut excavated 100,000 cubic yards of earth and constructed 6,000 linear feet of asphalt concrete trapezoidal channel, 750 linear feet of PCC trapezoidal channel, 200 linear feet of 48-inch CHDPE storm drain, and an outlet structure weir system. Total contract amount - \$1,541,000

Frank R. Bowerman Landfill Phase 8A Daily Cover Excavation Project – Irvine, CA (2021): This project involved the mass excavation of 500,000 cubic yards of earth through hard Sespe formation to stockpile for County landfill daily cover operations. Total contract amount - \$1,942,000

Prima Capistrano Greenery – San Juan Capistrano, CA (2020): This project involves moving over 100,000 cubic yards of dirt and providing almost 100,000 square feet of HDPE liner. The project also has a number of site work items related to wet utilities, gas line piping, concrete work, landscaping, and over a half a million square feet in 6-inch asphalt paving. Total contract amount - \$4,342,000

Chiquita Canyon Landfill, Cell 6 Liner – Castaic, CA (2019 - 2020): The project includes excavation of one million cubic yards of soil for the construction of a new cell for Waste Connections. Sukut is constructing a ten-foot wide by five-foot deep rectangular channel, along with various other surface drainage improvements. The cell construction consists of a three-layer system, which includes a low permeability layer, gravel layer, and one-inch minus protective soil layer. Total contract value - \$9,033,000

Camp Fire Debris Removal – Paradise, CA (2019): Working as a managing partner, Sukut entered into a joint venture with Goodfellow Bros. and Pacific States Environmental Contractors, the SPSG Partners, to begin a one-year fire cleanup project in Butte County, CA. The Camp Fire went through Paradise, CA back in November 2018, destroying more than 153,000 acres. Sukut has been appointed as a Managing Partner and tasked with fire debris removal and hauling of the burned debris. SPSG Partners will move and safely dispose of approximately 1.4 million tons of metals, concrete, ash, contaminated soil, and other debris generated from the fire. These efforts will employ over 1,000 laborers, operators, truckers, and other types of field staff. The SPSG Partners are scheduled to complete the work in the first quarter of 2020. Total contract amount -\$460,780,000

Prima Deshecha LF-Zone 1 Phase D, Excavation and Liner – San Juan Capistrano, CA (2018 - 2019): The project consisted of construction of a composite liner system including mass excavation, a subdrain and leachate collection system, low-permeability soil layer, drainage gravel layer and importation and placement of operations layer and geosynthetics. The project also included landfill gas pipeline construction, concrete drainage, a lined stormwater basin and other miscellaneous civil improvements to the site. Total contract amount - \$17,481,000

La Pata Gap Closure Projects – San Clemente, CA (2014 - 2017): This project for the Orange County Public Works connects the cities of San Clemente and San Juan Capistrano with a new 3.5-mile-long corridor. This project is the largest roadway project in Orange County's history and has won many awards including 2016 Orange County ASCE Project of the Year. With a contract of \$80 million, the scope entailed but was not limited to constructing new roadway and bridge overcrossings, installing 30-foot diameter under crossings, moving more than 15 million cubic yards of earthwork, 800,000 yards of landfill debris relocation, stabilization of landslides and adverse geology, installation of storm drain systems, and the relocation of electrical transmission towers and poles and various utilities. Much of this work was performed while keeping the road open to traffic. Total contract value – \$86,850,000

Frank R. Bowerman Landfill – Irvine, CA (2005): This project involved cell expansion work for the County of Orange, IWMD. Total contract value - \$12,000,000

Mid Valley Landfill – Rialto, CA (2004): This project involved cell expansion for the County of San Bernardino, Solid Waste Division. The project included various drainage improvements, along with removal of refuse and unsuitable materials. Placed a five-foot compacted fill over designated closure limits. Due to the rigorous slopes and areas, material was hauled with both scrapers along with dump trucks. Total contract value - \$7,820,000

Savage Canyon Landfill – Whittier, CA (2004): This project involved Cell expansion for The City of Whittier. Total contract value - \$2,600,000

Frank R. Bowerman Landfill – Irvine, CA (2003): This project involved storm water basin work for the County of Orange, Integrated Waste Management Department. Total contract value - \$1,500,000

Mid Valley Landfill – Rialto, CA (2003): This project involved cell expansion for the County of San Bernardino, Solid Waste Division. Total contract value - \$2,100,000

Environmental Services Landfill and Disposal Site Remediation – Buena Park, CA (1999): Performed construction services on the project for the California Environmental Protection Agency, Integrated Waste Management Board. Total contract value - \$2,500,000

Olinda Landfill Expansion, Phase 2 – Brea, CA (1998): Performed construction services on the project for the Orange County Integrated Waste Management Department. Total contract value - \$1,700,000

BFI Sunshine Canyon New Cell Expansion – Sylmar, CA (1995-1997): Total contract value - \$32,000,000

EDUCATION

• Various classes in the Land Development and Construction Management, Fullerton Junior College, Fullerton, CA

PROFESSIONAL CERTIFICATIONS

- HAZWOPER Trained, Supervisor level
- Competent Person
- Confined Space
- CPR
- First Aid
- Certified Rigging



CODY SCHILLING 3.1.1. Civil, QA / QC Manager / Project Engineer

Cody Schilling is a QA/QC Manager / Project Engineer of Sukut Construction. Cody has over 10 years of relevant industry experience on both public and private broad range projects, including construction of numerous landfill projects in Southern California. He has a proven track of successfully overseeing large-scale projects for quality control and contract compliance. On the Project, Cody will have a full-time responsibility to ensure design-build work is being conducted in accordance with the QMP.

WORK EXPERIENCE

2014 – Present: Sukut Construction

Santa Ana, California

2012 – 2014: Western Engineering Contractors

Loomis, California

HIGHLIGHTED PROJECT EXPERIENCE

Northern Branch Fire Debris and Hazardous Tree Removal – Northern California, CA (2020 - Present): Sukut entered into a joint venture with Pacific States Environmental Contractors and P31 Enterprises (PSP JV) to begin the Northern Branch wildfire cleanups located in Butte, Lassen, Nevada, Plumas, Shasta, Del Norte, Siskiyou, Trinity, and Yuba Counties. Wildfires swept through these counties in late 2020 and PSP JV was tasked with fire debris removal and hazard tree removal. PSP JV removed and safely disposed or recycled approximately 380,000 tons of metal, concrete, ash, and contaminated soil. Additionally, 7,000 burnt vehicles were removed and recycled along with 68,000 hazard trees that were removed and sent to sawmills and biomass facilities. Sukut cleared a total of 2,100 parcels of the fire debris and hazard trees. Projected contract amount - \$202,267,500

Trampas Canyon Dam and Reservoir – San Juan Capistrano, CA (2018 – 2020): This project for the Santa Margarita Water District included a substantial construction of a 270-foot tall, 3,000 feet long earth fill dam and construction of new saddle dams to create a 5,500-acre-foot reservoir. Components of work included excavation and embankment of over 3.7 million cubic yards of material, placement of 600,000 tons of aggregate filter material, construction of new inlet/outlet structures, a 400-foot-long spillway, 700 feet of 63-inch micro-tunneling, RCP storm drain and CML&C waterlines, instrumentation and a dam control building. Total contract value - \$90,000,000

Detwiler Fire Debris Removal and Recovery – Mariposa County, CA (2017): Cal-Recycle contract. Sukut provided hazmat crews and provides services to remove, store, transport, and dispose of hazardous and non-hazardous solid waste and debris resulting from the fire. Total contract amount – \$8,475,000

3.1 - 9

Olinda Alpha Landfill Front Slope Improvement Project Phase II – Brea, CA (2016 - 2018): This project for Orange County Waste & Recycling consisted of a 100-acre earth cover fill, relocating 2.2 million cubic yards of material, 50,000 linear feet of landfill gas pipe installation along with the installation of storm drain and concrete basins. Total contract value - \$22,729,000

Porter Ranch Tract 50505, 50506, and 50507 Rough Grading – Porter Ranch, CA (2015 – 2018): This 8.8 million cubic yard grading project for Toll Brothers in the Porter Ranch Development area was just north of the 118 Freeway and west of Mason. This project fell to the north of an existing housing tract and west of an active school. The project consisted of several large landslides, staged grading due to SCE towers to be re-located and very steep terrain which made this project very complicated. Total contract value - \$24,927,000

Porter Ranch Tracts 50509/01 and 50-Acre Park – Porter Ranch, CA (2015 – 2016): This project included mass excavation of 4,000,000 cubic yards and remedial excavation of 600,000 cubic yards for a 400-lot residential development with park site and surface drainage. Total contract value - \$19,142,000

Industry Business Center – East Side Mass Grading - City of Industry, CA (2014 – 2016): Mass excavation of 5,900,000 cubic yards, 3,900,000 cubic yards of remedial grading, relocation of 70,000 cubic yards of existing landfill waste, construction of a landfill gas collection and treatment system, construction of 22,000 linear feet of surface drainage, and installation of 7,600 linear feet of RCP storm drainage piping up to 72 inches in diameter for the development of a mixed-use industrial and retail center for the Successor Agency for the Industry Urban Development Agency in the City of Industry. Total contract amount - \$27,655,000

EDUCATION

• Bachelor of Science, Construction Management with Minor in Business Administration, California State University, Sacramento, CA

PROFESSIONAL CERTIFICATIONS

- FMI Project Manager Academy
- Sukut Leadership Training
- Sukut Safety Leadership Training
- SCAQMD Fugitive Dust Control



RICK FRASER 3.1.1. Civil, Site Safety / Health Manager

Rick Fraser brings over 30 years of experience in performing daily safety inspections of work sites and conducting training for confined space, confined space rescue, fall protection, fit testing, and forklift training. Rick is experienced in performing monthly safety audits. His teamwork skills, along with great attention to details bring an unmeasurable benefit to each project site every time. On the Project, Rick will work closely full-time with the Project Manager and Site Manager / Construction Manager / Superintendent to develop and implement a comprehensive, Project-specific, Solid Waste LEA-required Health and Safety Program in accordance with all applicable CAL/OSHA and Federal OSHA regulations, as well as other Federal, State, or local agency requirements.

WORK EXPERIENCE

2008 – Present: Sukut Construction

Santa Ana, California

2003 – 2008 SJ&B Group, Inc.

Riverside, CA 92501

2000 – 2003 Colich Construction, LP

Torrance, Ca 90501

1992 – 2000 Wubben Bros., Inc.

Vancouver, WA 98662

1986 – 1992 Morris Brothers Constructors

Elsinore, CA

HIGHLIGHTED PROJECT EXPERIENCE

Oasis In-Lieu Recharge, Phase II – Thermal, CA (2021 - Present): On this project, Sukut is constructing approximately 17.5 miles of a pipeline of various diameter and the underground facilities, including all ancillary excavation, rock removal, trenching, shoring, dewatering, surface restoration, and more. Included in the project are also the construction of four pump stations with furnishings and installation of vertical turbine pumps and backup generators, construction of four reservoirs, installation of electrical control devices, and more. Projected contract value – \$45,764,935

Monte Verde Project – Fairfield CA (2021 – Present): Sukut's scope of work on this fast-paced Northern California project includes onsite grading, grading for bioretention ponds, frontage improvements, concrete flatwork, and asphalt paving. Projected contract value - \$2,677,763

Altamont LF FA2 Phase 4 Project – Livermore, CA (2021 – Present): This project includes the excavation of 1,300,000 million cubic yards of soil to stockpile, with approximately 300,0000 cubic yards of blasted material. Work consists of placing underdrain gravel layer, earthfill layer, low permeability layer, LCRS gravel layer, and lastly, a one inch minus operations layer. Erosion control measures will be implemented once the project is completed. Projected contract value - \$12,246,914

Westlake Phase II Lake 4 Grading Project – Stockton (2021 – Present): This project for Eight Mile Development includes excavation and fill placement to redesign an existing pond for future home development around. Projected contract value - \$957,495

The Highlands at Tesoro del Valle - Santa Clarita, CA (2021 – Present): This rough grading project located on the 400-acre site involves 12,935,000 cubic yards of excavation. The site will house a new residential development, The Highlands at Tesoro del Valle, for Newport Pacific Land. Projected contract value - \$30,652,729

Oasis In-Lieu Recharge, Phase II – Thermal, CA (2021 - Present): On this project, Sukut is constructing approximately 17.5 miles of a pipeline of various diameter and the underground facilities, including all ancillary excavation, rock removal, trenching, shoring, dewatering, surface restoration, and more. Included in the project are also the construction of four pump stations with furnishings and installation of vertical turbine pumps and backup generators, construction of four reservoirs, installation of electrical control devices, and more. Projected contract value – \$45,764,935

Chiquita Canyon Landfill, Cell 8 Liner – Castaic, CA (2021- Present): The project includes excavation of 600,000 cubic yards of soil for the construction of a new cell for Waste Connections. Sukut is constructing a ten-foot wide by five-foot deep rectangular channel, trapezoidal channel, along with various other surface drainage improvements. The cell construction consists of a three-layer liner system which is covered on the floor by a low permeability layer, leachate removal system, gravel layer, and one-inch minus protective soil layer. Projected contract amount - \$6.816.227

Cell 3B Development – Santa Cruz, CA (2021 – Present): This project involves the excavation of approximately 400,000 cubic yards of earth to create new space for a landfill expansion. The construction of the new landfill cell includes geosynthetic liners, drainage gravel, and HDPE piping. Projected total contract amount - \$3,878,333

Peter Pitchess Detention Center Class III Landfill Closure – Castaic, CA (2021 – Present): This project involves a 31 AC landfill closure which includes working in and around the existing landfill cover and the installation of miscellaneous drainage structures to protect the site. Projected total contract amount - \$2,197,271

Tree Removal Services Project for the Camp Fire – Paradise, CA (2020 - Present): Acting as a managing partner, Sukut entered into a joint venture to remove and dispose of the dead and dying trees that were damaged by the Camp Fire. In total, 300,000 trees that currently pose a hazard

to the public will be removed over the next seven to eight months. Projected contract amount - \$ 175,746,000

Mustang BESS Civil - Lemoore, CA (2020 - Present): Rosendin Electric contracted Sukut to prepare this Battery Energy Storage System (BESS) facility in receiving 75 BYD CubePro battery units and 25 inverters. In addition to civil and concrete scopes, Sukut installed 425 grade beams and excavated nearly 60,000 linear feet of trenching. Projected total contract value – \$2,235,542

Landfill, Disposal Site, and Waste Tire Remediation for Southern California - Southern California (2020-Present): This project consists of a three-year contract with Cal Recycle and the Department of Resources Recycling and Recovery. The work includes illegal waste dumps and tire remediation and cleanup project(s) across Southern California. Projected contract amount - \$2,500,000

Daily Cover Excavation and On-Call Site Improvements at Riverside County Landfills (2020-Present): This contract consists of a three-year maintenance and support contract for currently open and closed landfill for County of Riverside. Work includes excavation, fill, trash excavation, drainage, concrete structures, AC and Base Road along with other SWPPP related items. Projected contract amount - 3,751,285

El Sobrante Landfill Phase 13A Excavation – Corona Ca (2020 – Present): This Project includes clearing, excavation of 4,500,000 cubic yards of material, heavy D11 ripping, drilling, and shoot rock, building basins and the installation of pipe to create the next cell for disposal. Projected contract amount - \$13,758,991

San Marcos Highlands Grading Project - San Marcos, CA (2020 – Present): This residential rough grading project for KB Home involves earthmoving activities to prepare pads for approximately 200 homes. The scope includes approximately one million cubic yards of earthwork, including rock excavation in the Jurassic Santiago Peak Volcanic Formation. Projected contract value - \$7,913,406

Tree Removal Services Project for the Camp Fire – Paradise, CA (2020 - Present): Acting as a managing partner, Sukut entered into a joint venture to remove and dispose of the dead and dying trees that were damaged by the Camp Fire. In total, 300,000 trees that currently pose a hazard to the public will be removed over the next seven to eight months. Projected contract amount - \$ 175,746,000

Lower Elkhorn Interior Drainage Project – West Sacramento, CA (2020 – Present): Sacramento Area Flood Control Agency contracted Sukut to construct a 750,000-cubic yard detention basin. During the project, Sukut will perform 250 acres of clearing, grubbing, and stripping of topsoil and native vegetation, as well as construct a new 7.5-mile-long channel and widen the existing channel with over 250,000 cubic yards of excavation. Sukut will also install over 2000 linear feet of RCP and construct six large single, double, and triple cast-in-place concrete box culverts. Projected contract value - \$11,597,997

Potrero Hills LF Module 18 Liner – Suisun City, CA (2020 - Present): Sukut has been contracted to complete mass excavation, clay layer installation, LCRS gravel, and LCRS piping for Waste Connections next cell at the Potrero Hills landfill. Projected contract amount - \$4,134,000

Montebello Hills Phases A Rough Grading – Montebello, CA (2020 - Present): Residential development for Toll Brothers, Inc. that involves approximately six million cubic yards of earthwork including remedial grading, mass excavation, lot over-excavation and buttress stabilizations. Projected contract value - \$18,246,301

Visalia Landfill, Phase 4 Expansion Project – Visalia, CA (2020 – Present): This project includes mass excavation of 355,000 cubic yards of material for the expansion of two new cells at the Visalia Landfill. The project also includes the installation of 2.5 million square feet of the geosynthetic liner and two leachate extraction and storage systems. Projected contract value - \$8,280,000

Riverside County Landfills Daily Cover Excavation and On-Call Improvements Project – Visalia, CA (2020 – Present): This project consists of 200,000 cubic yards of daily cover excavation and hauls for Badlands Landfill, as well as on-call site improvements at Badlands, Lamb Canyon, Double Butte, Highgrove, Belltown, Menifee, and Pedley Landfills. These site improvements consist of the construction of engineered fill, excavation of sedimentation basins, asphalt concrete drainage structures, asphalt roads, and erosion control items for the County of Riverside. Projected contract value - \$3,741,000

Bee Canyon Greenery Project – Irvine, CA (2020 – Present): This project consists of 740,000 cubic yards of earthwork, construction of a 784,000 square foot asphalt compost deck, a water supply system, fire water system for Orange County Fire Authority, water tanks, lined storm water basin, and miscellaneous civil improvements for the County of Orange. The project also consists of re-routing power for the county's new pump system. Project Contract Value - \$5,877,000

Caltrans Route 29 – Clearlake, CA (2019 – Present): Sukut is working on the Highway 29 realignment project in Lake County. The work on this three-mile-long stretch of road includes over 850,000 cubic yards of roadway and rock excavation, as well as blasting. Sukut's large equipment fleet including D11 dozers are well suited to rip through the hard volcanic rock that we are encountering. Projected contract value - \$19,240,000

Northern Branch Fire Debris and Hazardous Tree Removal – Northern California, CA (2020 - Present): Sukut entered into a joint venture with Pacific States Environmental Contractors and P31 Enterprises (PSP JV) to begin the Northern Branch wildfire cleanups located in Butte, Lassen, Nevada, Plumas, Shasta, Del Norte, Siskiyou, Trinity, and Yuba Counties. Wildfires swept through these counties in late 2020 and PSP JV was tasked with fire debris removal and hazard tree removal. PSP JV removed and safely disposed or recycled approximately 380,000 tons of metal, concrete, ash, and contaminated soil. Additionally, 7,000 burnt vehicles were removed and recycled along with 68,000 hazard trees that were removed and sent to sawmills and biomass facilities. Sukut cleared a total of 2,100 parcels of the fire debris and hazard trees. Projected contract amount - \$202,267,500

Lakewood Stormwater and Runoff Capture – Lakewood, CA (2019 - Present): This stormwater harvesting and underground storage system at Mayfair Park requires excavation of 92,700 cubic yards of earth and export of 35,000 cubic yards of material. Placement of shoring beam and plate along with the installation of 914 modular underground water storage units is covered with recycled excavated material. The harvesting system includes filters, pumps, diversion structure, rubber dam, pneumatic gate, active control water line, storm drainpipe, and catch basin. Project completion includes replacement of two tennis courts, 8-foot and 12-foot sidewalks, a building extension, T-ball backstops, sewer and electrical service, lighting, and fencing. Projected contract value – \$10,645,139

PROFESSIONAL CERTIFICATIONS

- Competent Person Designated for Excavation
- Competent Person Designated for Fall Protection
- Confined Space Entry
- CPR/First Aid
- Electrical Hazards
- Excavation Safety Qualification Training
- Fall Protection Qualification Training
- Flagger Training
- Forklift Certification
- Fugitive Dust Supervisor SCAQMD Rule 403
- Fugitive Dust Supervisor SCAQMD Rule 403.1
- Instructor MSHA Part 46 MIN (M71146310)
- OSHA 10 Hour Construction Safety Certification
- OSHA 30 Hour Construction Safety Certification
- Rigging Qualification Training / Crosby Rigging Certification
- Storm Water Sampling
- Traffic Control Safety
- Utility Marking and Potholing
- EM-385-1-1 40 Hour / 8 Hour Refresher
- Hazwoper 40 Hour and 8 Hour Supervisor
- EM-385-1-1 24 Hour Competent Person for Fall Protection
- SMS (Safety Management Specialist) BCSP Certification
- CHST (Construction Health and Safety Technician) BCSP Certification
- Smith System driving instructor



Jamie Himes, CSP 3.1.1. Civil, Environmental Compliance Manager (Construction)

Jamie Himes is the Environmental Compliance Manager of Sukut Construction. He has extensive experience monitoring work on a multitude of projects to ensure safety and environmental compliance. On the Project, Jami will work full-time with the Team to ensure that its mitigation plan is properly and fully implemented.

WORK EXPERIENCE

2015 – Present: Sukut Construction

Santa Ana, California

1992 – 2015: Brutoco Engineering & Construction

Fontana, California

HIGHLIGHTED PROJECT EXPERIENCE

Trampas Canyon Dam and Reservoir – San Juan Capistrano, CA (2018 – 2020): This project for the Santa Margarita Water District included a substantial construction of a 270-foot tall, 3,000 feet long earth fill dam and construction of new saddle dams to create a 5,500-acre-foot reservoir. Components of work included excavation and embankment of over 3.7 million cubic yards of material, placement of 600,000 tons of aggregate filter material, construction of new inlet/outlet structures, a 400-foot-long spillway, 700 feet of 63-inch micro-tunneling, RCP storm drain and CML&C waterlines, instrumentation and a dam control building. Total contract value - \$90,000,000

Camp Fire Debris Removal – Paradise, CA (2019-2020): Working as a managing partner, Sukut entered into a joint venture with Goodfellow Bros. and Pacific States Environmental Contractors, the SPSG Partners, to begin a one-year fire cleanup project in Butte County, CA. The Camp Fire went through Paradise, CA back in November 2018, destroying more than 153,000 acres. Sukut was appointed as the Managing Partner and tasked with fire debris removal and hauling of the burned debris. SPSG Partners moved and safely disposed of approximately 1.4 million tons of metals, concrete, ash, contaminated soil, trees, burned vegetations, and other debris generated from the fire. These efforts employed over 1,000 laborers, operators, truckers, and other types of field staff. The SPSG Partners substantially completed the work in the last quarter of 2019, under budget and ahead of schedule. Total Homes - 4,100. Final contract amount - \$405,000,000

HDWD Wastewater Reclamation Project Phase 1 Collection System – Yucca Valley, CA (2016 - 2020): Installation of over 110 miles of new gravity and force main sewer lines in existing neighborhoods. Work also included the construction of a sewer lift station and the replacement of over 78 miles (257,000 tons) of asphalt roadway. Total contract value – \$95,700,000

Mid Valley Landfill Unit 4 Ph1 Composite Liner – Rialto, CA (2018–2020): Landfill expansion project which consists of 6.2 million square feet of geomembrane installation, 3.9 million square

feet of geosynthetic clay liner, 400,000 cubic yards of low permeability soil placement, 30,000 linear feet of LCRS/LFG HDPE pipe installation, two concrete desilting basins and a leachate pumping, storage, load out and transfer system for San Bernardino County. Projected contract value - \$27,728,663

West Fontana Channel – Fontana, CA (2019 – Present): Construction of a new 17,000-footlong active drainage channel in Fontana, CA. Work includes clearing and demolition, shoring, earthwork and grading, cast in place reinforced concrete rectangular channel, pre-cast reinforced concrete box culverts and site work. Projected contract value - \$59,980,000

Tubbs/Atlas/Redwood Complex Debris Removal – Santa Rosa/Mendocino/Napa, CA (2018): Governor's Office of Emergency Services contract. Sukut provided hazmat crews and coordinated post debris removal, repair efforts, backfill, and remaining debris removal for 400 homes. Total contract amount - \$21,553,000

Thomas Fire Debris Removal – Ventura, CA (2018): Cal-Recycle contract. Sukut provided hazmat crews and coordinated debris removal efforts for 600 homes. Total contract amount - \$42,723,042

Clinton Keith Road Extension Project, Phases 2 and 4 – Murrieta, CA (2016 – 2018): Road construction project for County of Riverside. Phase 2 included 500,000 cubic yards of dirt and rock excavation, 91,000 cubic yards of rock blasting, installation of 10,000 linear feet of RCP storm drain, construction of two retaining walls, one cast-in-place multi-span box girder bridge, and one precast double-arch wildlife bridge with MSE walls. Phase 4 involved a roadway and rock excavation for widening areas of over 17,000 cubic yards, decomposed granite trail of more than 100,000 square feet, various minor concrete structures and nearly 17,000 tons of asphalt paving. This project was built to provide an additional two lanes for the highway and a center median. Total contract value – \$31,040,000

Olinda Alpha Landfill Front Slope Improvement Project Phase II – Brea, CA (2016 - 2018): This project for Orange County Waste & Recycling consisted of a 100-acre earth cover fill, relocating 2.2 million cubic yards of material, 50,000 linear feet of landfill gas pipe installation along with the installation of storm drain and concrete basins. Total contract value - \$22,729,000

La Pata Gap Closure Projects – San Clemente, CA (2014 - 2018): This project for the Orange County Public Works connects the cities of San Clemente and San Juan Capistrano with a new 3.5-mile long 5 to 6-lane corridor. This project is the largest (monetary value) roadway project in Orange County history and has won many awards including 2016 Orange County ASCE Project of the Year. With a contract of \$86 million, the scope entailed constructing two bridge overcrossings, installing five 30-foot diameter, 220' long multiplate under crossings, moving more than 15 million cubic yards of earthwork, 800,000 yards of landfill debris relocation and then a landfill closure, stabilization of landslides and adverse geology, stabilization by numerous earthwork buttresses, installation of storm drain systems, and the relocation of electrical transmission towers and poles and various utilities. This work was performed while keeping the road and landfill open to traffic. Total contract value – \$86,850,000

RMV PA 2.3, 2.4 & Los Patrones Parkway, San Juan Capistrano, CA (2015 - 2017): Sukut provided mass grading services of 15,000,000 cubic yards to construct Rancho Mission Viejo housing phases 2.3 & 2.4, along with adjacent Los Patrones Parkway. In addition to grading, Sukut performed installation of 14,000 linear feet of storm drain, precast and multiplate tunnels, and concrete soil mixing. Total contract value – \$52,000,000

Garland Solar Energy Project (2016): For Signal Energy Constructors / CSI Electric. Civil improvements to a 2,000 acre photovoltaic solar energy site in Rosamond, CA. Activities included mass clearing and land preparation for the site. Constructed more than 20 miles of site access roads. Work also included ~350,000 lineal feet of AC/DC electrical trenching and backfill. Total contract value ~\$15 million.

Foothill Parkway Western Extension Project - Corona, CA (2015-2016): Construction of two and a half miles of new four lane roadway. Work included approximately 2,000,000 cubic yards of mass excavation, construction of new storm drain, water lines, and dry utilities along the roadway corridor; as well as final pavement, street lighting and surface improvements. Total contract value – \$44,650,000

Alamo & Maricopa Solar Energy Projects (2014-2015): For Signal Energy Constructors / Baker Electric. Activities included various civil improvements including extensive demo of existing structures, developing a well for water source as well as abating several others, leveling the existing land to be developed, construction of AC and CL II base access roads as well as CL II base interior service roads. Electrical activities included trenching and backfill of ~100,000 LF of AC/DC and tracker motor cable trenches totaling 40 MW of power as well as the construction of the cast in place power conversion station or PCS pads. Total Contract Value - \$6,500,000

Moapa Southern Paiute Solar PH 1 & 2 (2014-2015): For Cupertino Electric Inc. Activities included underground trenching and backfill of approximately 100,000 linear feet of AC/DC trenching totaling 125 MW of power which is enough to power approximately 50,000 homes. Challenges included trenching through a very hard caliche material utilizing Vermeer T955 trenchers. Work was performed on the Moapa Paiute Indian Reservation therefore there was extensive coordination required to comply with the regulations involved with working on a sovereign nation. Total Contract Value - \$6,500,000

EDUCATION

Bachelor of Science, Occupational Safety
 Eastern Kentucky University, Richmond, KY

PROFESSIONAL CERTIFICATIONS

- CSP, Certified Safety Professional, Credential ID: 34129
- CHST, Construction Health & Safety Technician, Credential ID: C3979
- OHST, Occupational Hygiene & Safety Technician, Credential ID: 5424

- OSHA 500, Authorized Construction Trainer
- Smith System Driver Trainer Course
- 40 Hour HAZWOPER
- 8 Hour HAZWOPER Supervisor
- Advanced Hazardous Waste Management Certificate, NES
- SPCC Plans for APSA Sites Certificate, NES
- Tank Integrity Management Certificate, STI-SPFA
- Professional Member, ASSP (American Society of Safety Professionals)
- Member, SCCA (Southern California Contractor's Association) Safety Committee



GREGORY E. SAUL, P.E., QSD/P

3.1.1. Civil / 3.1.5 Plumbing (Building) Design Lead / Senior Project Manager Civil Engineer / Plumbing Engineer

EXPERIENCE SUMMARY

Mr. Saul has 26 years of solid waste and civil engineering experience. This has included managing the design of composting facilities, landfill liner and closure design, construction management, operations oversight and contract management. Throughout his career, Mr. Saul has managed multi-disciplined design teams, negotiated and interfaced with local regulatory agencies, and coordinated with project stakeholders. Prior to joining Tetra Tech, he was Manager of the Team B Engineering Section of the San Bernardino County Solid Waste Management Division (SWMD).

RELEVANT EXPERIENCE

COMPOSTING FACILITY DESIGN

Bee Canyon Greenery Composting Facility Conceptual Design, Irvine, California. Project Manager for conceptual design of an open windrow composting facility to process green waste materials currently delivered to the Frank R. Bowerman Landfill. Facility features include a feedstock receiving area, pre-processing area, composting area, curing area, compost screening/blending, storage and load-out, and ancillary facilities. Utility and infrastructure requirements associated with the development of a bio-separation operation were identified and reflected in the conceptual design. A site/floor plan was developed which was inclusive of all design requirements integral with the operation of a bio-separation operation.

EDUCATION

B.S., Civil Engineering; California State Polytechnic University, Pomona (1996)

REGISTRATIONS

California Registered Civil Engineer, Professional Civil Engineer (#60600)

Qualified SWPPP Developer and Practitioner (#01019)

YEARS OF EXPERIENCE

Since 1996

YEARS WITH TETRA TECH

Since 2011

Analysis of Covered Aerated Static Pile (CASP) System, Bee Canyon Greenery Composting Facility, Irvine, California. Project Manager for engineering analysis of a CASP facility consisting of a series of pipes that will deliver air to the compost from a mechanical blower, a means of controlling compost liquids, and a cover over the compost. Analysis considered two types of covers 1) a semi permeable cover material such as the Gore system; or 2) a layer of finished compost. Conceptual facility layout was revised to accommodate a CASP configuration. Capacity analysis is being conducted to calculate the amount of organics that can be processed in tons per day and the total volume of the organics and compost that can be stored on the site. A list of equipment and infrastructure improvements required to convert from a traditional windrow composting facility to a CASP system was also developed.

Capistrano Greenery Composting Facility Design, San Juan Capistrano, California. Project Manager for the development of design plans for site layout, grading, drainage, storm water management, and operations and firewater supply. Stormwater improvements include a diversion berm sized to contain rainwater volume required by the Composting General Order. Plans for modification of approximately 30 landfill gas wells located within the composting facility footprint were prepared. Probes need to be relocated or upgraded with remote well heads so extraction wells will be below grade and out of the way of the future composting operations.

Composting Facility Design, Olinda Alpha Landfill, Brea, California. Project Manager for design and site/floor plan development for a co-digestion bio-separation operation. The facility was designed to manage approximately 100 tons per day of source separated food waste.

Stormwater Management Planning, Sonoma Central Landfill Composting Facility, Sonoma County Waste Management Agency, Sonoma County, California. Project Manager for the engineering analysis of the proposed Sonoma County Composting Facility. The Sonoma County Waste Management Agency (SCWMA) proposed relocation of an existing composting facility from its current location within the landfill refuse limits at the Central Disposal Site. The project EIR evaluated several locations, ultimately identifying two sites: Site 40 and the West Canyon at the Central Disposal Site. Evaluated contact water handling measures, the composting capacity of the site, developed a preliminary facility design, and prepared a preliminary budget estimate to determine if existing CEQA analysis was adequate in order to certify the EIR and provide a basis for the final site selection by the SCWMA board.

Analysis of Composting Facility Cover System Alternatives, Sonoma Central Composting Facility, Sonoma County, California. Provided cost analysis of covered aerated static pile (CASP) alternatives, and evaluated bunker space requirements and layout options at the new site. Preliminary designs were also developed for the following site features site grading and drainage, a stormwater detention basin, composting bunkers (mechanical and structural details), metal roofing structures, and asphalt paving and concrete. Architectural elevations were prepared for main processing building and non-organics processing building. Conceptual designs were also developed for negative air system for processing buildings, and alternative facility layouts for site permitting.

Stormwater Basin Design, Mid-Valley Disposal Composting Facility, Madera, California. Project Manager for design of storm water retention basin liner system and lysimeter in accordance with the State Water Resources Control Board Orders and state and federal regulations. This included preparation of design drawings, technical specifications, and construction quality assurance pans for the pond. Plans were prepared for a base and side slope liner section, a lysimeter sump and riser pipe, concrete collar and liner join, plus design of pipe supports and anchor trenches. Following approval of designs, managed construction inspection and construction quality assurance services to ensure that the liner and lysimeter were constructed in accordance with the design, and Central Valley Regional Water Quality Control requirements.

WASTE PROCESSING / TRANSFER FACILITY DESIGN

Transfer Station and Scalehouse Design, Tinian, Commonwealth of the Northern Mariana Islands. Project Manager for design of municipal solid waste transfer station. Scope includes development of a Basis of Design report, identification of regulatory compliance requirements,

survey, soils investigations, and preparation of construction plans for a transfer station and ancillary facilities including a scalehouse.

Transfer Station Improvement Design, Heaps Peak Transfer Station, Running Springs, California. Project Manager for the preparation of construction plans for significant improvements to site entrance road, scale house, scale, and transfer station tipping floor. The goal of the project was to revise the site layout to improve operational efficiency, provide better safety for site vehicular traffic and public traffic traveling on an adjacent highway, and maintain the integrity of site access, fee collection, and waste processing features. Work involved preparation of conceptual and final construction plans, specifications, and cost estimates; and development of final design calculations and a final design report.

Facility Improvements, Olinda Alpha Landfill, Brea, California. Project Manager for various infrastructural improvements at an active regional landfill. Specific Task Orders included pavement rehabilitation on the site main haul road, engineering support during the construction of utility improvements, design of improvements to the site operations waterline, design of a wheelwash system and sewer line extension, and design of a parking lot extension and installation of a public conference room.

Landfill Scalehouse Design, Landers Sanitary Landfill, San Bernardino County, California. Project Manager overseeing civil, structural and electrical design of scale house featuring prefabricated structure. This includes design of pad and drainage, design of the electrical service and preparation of the specifications for the scale house.

LINED REFUSE DISPOSAL CELL DEVELOPMENT

Unit 2 Phases 3-1 and 4 Liner Construction at the San Timoteo Sanitary Landfill, San Bernardino County, 2016 to 2018. Supervising Engineer for the development of the design report and construction documents for the liner expansion. The San Timoteo Sanitary Landfill is a canyon fill site, the Unit 2 Phase 3 liner area is located south, southwest and west of the northern limit of the existing Unit 2 Phase 2 and 3-1 liners.

Lancaster Phase 2-A1 Liner, Waste Management, 2017-2018. Supervising Engineer for development of Phase 2A Liner Design. Mr. Saul oversaw preparation of the construction plans, specifications, and construction quality assurance plans.

Cell 2 Preferential Pathway Liner System for the Sonoma County Central Disposal Site, Republic, 2017-2018. Supervising Engineer for development of Phase 2A Liner Design. Mr. Saul oversaw preparation of the construction plans, specifications, and construction quality assurance plans.

Sub Area

15 and 16 at the Newby Island Sanitary Landfill, Republic, California, 2011. Supervising Engineer for development of two landfill cell designs. Mr. Saul oversaw preparation of the cell permit documents and the construction plans and specifications. Design included subdrain system, the leachate collection sump and pumps.

Sub Area 16A and 17 at the Newby Island Sanitary Landfill, Republic, California, 2016-2017. Supervising Engineer for development of two landfill cell designs. Mr. Saul oversaw

preparation of the cell permit documents and the construction plans and specifications. Design included subdrain system, leachate collection sump/pumps.

Billy Wright Landfill Phase 2A Liner Construction. Merced County. Supervising Engineer for the design of a 6.7-acre lined cell. Mr. Saul oversaw the preparation of conceptual designs, the permitting of the cell design, development of construction plans and specifications, and provided technical oversight during cell construction. Phase 2a is the first lined cell at the site and is tied into Phase 1, the adjacent unlined cell. Notable design features include a barrier layer which was the remedial design of high groundwater, design of the terminal leachate collection system and diversion structures for a large watershed that is tributary to the expansion area.

LANDFILL CLOSURE/POSTCLOSURE MAINTENANCE

Landfill Closure and Redevelopment Planning, Mountain View Landfill, California, 2012 to 2015. Supervising Engineer for planning and design of public recreational facilities on a closed municipal solid waste landfill, located within the Shoreline at Mountain View Regional Park. Overall project work included geotechnical investigations, development and evaluation of design alternatives, preparation of construction plans and specifications for the selected alternative, and engineering support during the construction phase. Development and approval of permitting documents describing the proposed land use change proposed for the property. This included development of procedures to prevent damage to the cover system, above-ground structures, pavement, and the landfill gas monitoring and control system. Procedures were also developed to prevent public contact with waste, landfill gas, and leachate, and to harmonize the setting and landscape with native shrubbery. The Silicon Valley Chapter of the American Public Works Association named the Mountain View Athletic Fields Project of the Year in the Environmental / Parks category, \$5 million to \$25 million category.

D-Shaped Parcel Partial Closure, Newby Island Landfill, Republic Services, San Jose, California, 2011 to 2012. Supervising Engineer for the design of this 5.2-acre partial closure of this unlined waste cell. Mr. Saul oversaw the development of the engineering portion of the partial final closure plan and the construction documents for the project. The alternative final cover system consisted of a low permeable asphalt section that provided parking for the refuse collection trucks.

Heaps Peak Eastern Slope Repair, San Bernardino County, Running Springs, California, 2014 to 2016. Supervising engineer for the design of a 2-foot cover and slope stabilization of an unlined area that was used for the disposal of pine needle waste. The repair area includes steep slopes that had previous failed due to slope orientation and inadequate drainage features. The repair design consisted of reconsolidating refusing, construction of a retaining wall, placement of final cover, and installing a series of drainage channels.

Installation Restoration Site 2 at the Alameda Naval Air Station, US Navy, Alameda, California, 2011 to 2013. Supervising Engineer for the remedial design of the West Beach Landfill portion of the Installation Restoration Site 2. The sixty-acre closure cap construction consisted of 2 feet of compacted soil and a geosynthetic biotic layer.

Top Deck Grading/Drainage Improvements and Landfill Gas Collections System Header Replacement at the Heaps Peak Transfer Station/Disposal Site. SWMD Project Manager overseeing grading and drainage improvements to the Heaps Peak Disposal Site after it ceased disposal operations and went inactive. A transfer station was subsequently developed at the site. During this process much of the top deck was paved with Asphalt Concrete. Over time the asphalt became cracked and potholed due to traffic impacts and settlement.

Storm Repairs at the Union Mine Landfill, El Dorado County, California, 2017 to 2018 Supervising Engineer for the design of the 9 repairs areas at the Union Mine Landfill. The damage was caused by a series of storms that occurred during the 2016-2017 winter season. The repairs included final cover replacement, repair of the site access road, repair to a storm culvert, replacement of a basin spillway, and replacement of protective cover soils on the existing fill area.

Phase 3 Final Closure Construction at the Milliken Sanitary Landfill. SWMD Project Manager for Phase 3 Final Closure Construction which consisted of placing a 4-foot-thick monolithic soils alternative cover system over the remaining approximately 75 acres, which includes the south and west faces and the top deck. Closure construction also included improvements to the existing landfill gas extraction and collection system, final drainage improvements, and the installation of moisture monitoring probes.

Final Closure Construction at the Hesperia Sanitary Landfill. SWMD Project Manager for a final closure construction project which consisted of placing a 4-foot-thick monolithic soil alternative cover over the refuse footprint. Construction included the placement of approximately 250,000 cubic yards of low-permeable cover soils. Approximately 200,000 cubic yards of soils suitable for final closure construction use were generated from an existing onsite borrow area and were blended with approximately 50,000 cubic yards of finer grained soils from an offsite borrow source. Construction also included improvements to the existing landfill gas extraction system, final drainage improvements, and demolition of select site facilities.

Final Closure Construction of the Newberry Sanitary Landfill and the Yermo Sanitary Landfill. SWMD Project Manager for the Final Closure construction of these Northern San Bernardino County Sites. Final Cover design consisted of placing a 3-foot final cover section over the waste footprint. The final cover was developed based on several final cover demonstration projects throughout San Bernardino County which included monitoring and data collection over an 8-10 year period. Due to each site's common borrow source, remote locations and relatively smaller scopes these projects were combined into one project. In addition to the placement of the final closure soils, construction activities also included construction of drainage structures to protect each landfill from potentially large storm water flows from the natural drainage course located adjacent to each landfill.

LANDFILL GAS MANAGEMENT

Landfill, Heaps Peak Disposal Site, Milliken Sanitary Landfill and San Timoteo Sanitary Landfill. SWMD Project Manager for the program maintaining the Landfill Gas Extraction Systems in compliance with South Coast Air Quality Management District (SCAQMD) Rule 1150.1 or Rule 431.1 as appropriate. The sites were monitored on a quarterly basis to ensure the systems were controlling landfill gas surface emissions and subsurface migrations. All sampling

data and operation activities were documented and submitted into a quarterly report that was submitted to the SCAQMD or the Mojave Air Quality Management District, as appropriate.

County of San Bernardino Team B Engineering Section Water Quality Monitoring and Response Program. SWMD Project Manager for a program which included sampling of groundwater, landfill gas, landfill leachate and septic waste; analysis of samples by a certified laboratory; review and interpretation of the resulting data; reporting of all activities to the appropriate regulatory agencies, and providing as needed services on related groundwater issues. The program included the following sites: Barstow Sanitary Landfill, Baker Sanitary Landfill, Colton Sanitary Landfill, Heaps Peak Disposal Site, Lucerne Valley Sanitary Landfill, Milliken Sanitary Landfill, Morongo Sanitary Landfill, Needles Sanitary Landfill, Newberry Springs Sanitary Landfill, San Timoteo Sanitary Landfill, Twentynine Palms Sanitary Landfill, and Yermo Sanitary Landfill.

Construction of the Milliken Sanitary Landfill Perimeter Gas Mitigation Control System. SWMD Project Manager and Resident Engineer for the expansion of an existing landfill gas extraction system (LFGES). The existing LFGES required enhanced landfill gas monitoring and collection along the northern perimeter of the site due to future development of the property north of the MSL. The expansion of the LFGES or the Milliken Sanitary Landfill Perimeter Gas Mitigation Control System consisted of installing sixty-six (66) landfill gas extraction wells and 23 Landfill gas monitoring probes.

Construction Phase 1 of the Landfill Gas Extraction System (LFGES) at the Yucaipa Disposal Site. As SWMD Project Manager and Resident Engineer, administered the construction of the project and oversaw a team that included a project engineer and a project inspector. The construction of the landfill gas extraction system was the second of two projects that were recommended in a 2001 Preliminary Engineering Feasibility Study (EFS) prepared in response to a volatile organic compound release from the site and submitted to the Regional Water Quality Control Board for approval and to comply with Title 27 of the California Code of Regulations. During the initial design phase of the LFGES, it was determined that in order to have the most efficient and cost effective LFGES, it would be more prudent to design and construct the system in two phases. The first phase consisted of designing and constructing the gas collection portion of the LFGES and connecting it to a temporary portable carbon treatment system, which was used to measure the amount of landfill gas that is generated at the site.

SOLID WASTE PLANNING/PERMITTING

Preparation of Non-Water Release Corrective Action Plans, Various. Mr. Saul was the project manager for the preparation of the Non-Water Release Corrective Action Plans for the following landfills: BKK, Tri-Cities, Redwood, Colton, Mid-Valley, Guadalupe, and El Sobrante Landfills. For the BKK, Tri-Cities, Redwood, and El Sobrante Landfills, Mr. Saul was the engineer that certified the final report.

Preparation of Five-Year Solid Waste Facility Permit Reviews for the Mid-Valley Sanitary Landfill and Colton Sanitary Landfill, San Bernardino County. Project Manager for the preparation of Five-Year permit review application packages for the Colton and Mid-Valley Sanitary Landfills.

ADDITIONAL SOLID WASTE EXPERIENCE

On-Call Solid Waste Engineering Services, OC Waste & Recycling North Region Landfills, 2012 to 2018 Project Manager for contract to provide as-needed engineering in support of ongoing facility improvements at Olinda Alpha Landfill and other inactive disposal sites in OC Waste & Recycling's North Region. Specific Task Orders performed under the contract include the following:

- Technical Services for the parking lot expansion and construction of a new conference room at the Olinda Alpha Landfill
- Construction Management / Construction Quality Assurance services for the Middle East Channel Improvement Project at the Olinda Alpha Landfill
- Design of a vehicle wheel wash system at the Olinda Alpha Landfill
- Engineering services for the construction documents for an operations waterline extension and a sewer line extension at the Olinda Alpha Landfill
- Technical support for visual screening of landfill gas to energy plant and haul road at the Olinda Alpha Landfill
- Seep Analysis of Basin A and B at the Olinda Alpha Landfill
- Geotechnical Services for the Quinn Area grading at the Olinda Alpha Landfill
- Development of a Job Hazard Assessment Plan for the excavation of waste for forensic investigations at Orange County landfills
- Evaluation of the post closure maintenance requirements for the Yorba Disposal Station

Review of the Kessler Park Improvements at the Crestmore Disposal Site. San Bernardino County, California. Provided technical review of the grading, drainage and other park improvements that were located within the footprint of the unlined Crestmore Disposal site. The park improvements were designed to accommodate the recreational activities provided by the park facility, but required design elements to accommodate the settlement, landfill gas generation and other environmental concerns due to the previous refuse disposal.

Leachate Collection System Improvements and Repairs at the Heaps Peak Disposal Site. SWMD Project Manager for the improvement and repairs to the Heaps Peak Disposal Site's Leachate Collection and removal system. The project included installing a generator and associated electrical improvements to the existing pump station. In addition, existing header pipe was replaced, and System Control and Data Acquisition hardware and software was added to the system to monitor flows and system performance from a remote location.



NICOLE GUERENA-PANTALEO 3.1.1. Civil, Civil Engineer

EXPERIENCE SUMMARY

Ms. Gueren-Pantaleo is a staff engineer with specialized experience in the preparation of engineering plans for improvements to solid waste facilities. This has included conceptual grading design and preparation of earthwork volume calculations, development of construction plans and specifications, and engineering support for various permitting documents. Prior to joining Tetra Tech BAS, Ms. Guerena-Pantaleo held an technical support position with the Los Angeles Regional Water Quality Control Board.

RELEVANT EXPERIENCE

Frank R. Bowerman Landfill, Irvine, California. Provided engineering support for multiple projects. This included revision of designs for administrative building including development of drafts for a fire protection plans. In addition, compiled bid schedules, assisted in preparation of responses to contractor Requests for Information, and prepared conceptual grading plans for feasibility analysis.

Union Mine Landfill, El Dorado County, California. Drafted cross section profiles and groundwater figures and assisted in the preparation of closure and post-closure maintenance cost estimates.

EDUCATION

B.S., Civil Engineering, Minor in Business, California State Polytechnic University, Pomona (2015)

REGISTRATION

California Registered Engineer-In-Training

OFFICE

Diamond Bar, California

YEARS OF EXPERIENCE

Since 2015

YEARS WITH TETRA TECH

Since 2015

Sonoma Central Landfill, Sonoma County, California. Provided engineering support for the development of site permitting and construction support documents including Solid Waste Facility Permit application, Report of Disposal Site Information, Stormwater Pollution Prevention Plan. Also prepared draft of a site operations plan.

Prima Deshecha Landfill, Orange County, California. Provided engineering and design support for Zone 1 Phase D development project. Specific responsibilities included technical support during the development of construction specifications, Construction Quality Assurance Plan, and bid schedule. Also assisted in the development of conceptual grading designs, and earthwork volume calculations.

Engineering Support, Los Angeles Regional Water Quality Control Board. Prior to joining Tetra Tech BAS, provided technical and scientific support to state regulatory agency. Responsibilities included the following:

• Review and analysis of discharge monitoring reports for the NPDES Enforcement Unit for entry into the California Integrated Water Quality System (CIWQS) database.

- Developed reports and worked with water resource engineers and environmental scientists to document violations and enforcement actions from monitoring through reports and inspections.
- Aided in inspections and developed reports for enforcement use.

Large Hotel Onsite Food Waste Audit Case Study, Confidential Client, Various Locations. Participated in a food waste audit that measured the baseline food waste composition at five properties in the United States. The project's goal was to identify sources of food waste, opportunities to reduce food waste, and considerations to increase food scraps recycling. Duties included collecting waste from kitchen areas, including food preparation, dishwashing, and bussing/banquet service areas. The waste was hand-sorted into 49 categories of food waste; one category for inedible parts and eight categories for food types (e.g., vegetables/fruits, baked goods) with six reasons for disposal (e.g., overproduction, excess trim). Data collected was used to estimate the annual amount of food waste along with the cost of the waste and associated labor. Based on the results of the food waste audits, the greatest opportunity for preventing food waste was to reduce overproduction. Recommendations included developing 'just in time' ingredient preparation systems, 'quick prep' menu items for buffets to limit pre-preparation, honing guest preference metrics, and reporting system to measure successes, setting measurable goals and tracking food waste on a regular basis.



MARCEL BODSKY, RA

3.1.2. Architectural, Architectural Engineer (Buildings / Scalehouse) / 3.1.5. Plumbing, Plumbing Engineer

EXPERIENCE SUMMARY

Marcel has over 30 years of design experience with a variety of building types and clients. His experience designing multibuilding facilities is extensive; his designs for public works infrastructure include rail and bus transit facilities, parking garages and maintenance facilities. His experience covers all phases of project development, including planning, programming, design, and construction. Marcel's expertise in managing contracts, dealing with contract issues and delivering on projects ranges from multiple on-call work order contracts with King County and the Port of Seattle, to multi-building multi-year base expansions for large municipal projects for King County and Intercity Transit.

RELEVANT EXPERIENCE

Central Solid Waste Transfer Station, City of Anchorage, **AK.** 2019-Ongoing. Project Architect. The new campus consists of eight facility buildings, including the new 75,000 square foot transfer station building which is double the size of the existing facility. The new facility will be fully enclosed which reduces sound, odor, and wind-borne debris from the public. The new administrative building includes offices for SWS management, finance and engineering for on-site management and direct access for immediate campus needs. Other new facilites include a Vehicle Maintenance Building, Fueling facility, Hazmat Collection facility, and commercial and residential scales and booths. Tetra Tech is also working with SWS for repurposing the existing CTS site as Anchorage's recycling drop off and collection center. The existing administration and maintenance building would be used to house a bailer for bulkier metals and The existing TS building would be used for plastic items. commercial wood and tires, organics, and bulk cardboard with a shredder added to the floor to better densify material before going to the landfill. Located in the middle of the site would be a residential recycling drop-off facility - a covered canopy configured to accept 10 different types of commodities from the public. And lastly, a proposed building that would be used for receiving and bundling various types of fiber such as office paper, mixed paper, newsprint, and corrugated fiber.

Prima Deshecha Landfill Scale Relocation, Orange County Waste & Recycling, CA. 2020-Ongoing. Lead Architect. Tetra

EDUCATION

B.A., Architecture, University of Washington, 1979

REGISTRATIONS/ CERTIFICATIONS

CAL: C35520

Architect: WA; 7006;

Alaska: A 14623

AREAS OF EXPERTISE

Project Management

Public Works Facility Design

Water Treatment Facilities

Hatcheries

Bus and Rail Transit facility design

Sustainability Design

Management of Work-Order Based contracts

Building evaluations and remediation consultation

YEARS OF EXPERIENCE

Since 1984

YEARS WITH TETRA TECH

Since 2000

Tech provided planning and civil design services, scale / scale-house design, construction management, and construction quality assurance services for the phased development of the new material recovery facility. The facility is designed to transition from a transload facility to an automated facility featuring a solar powered in-ground conveyor system and scalehouse. Initially the facility will be capable of processing 400 tons of waste per day, expanding eventually to 2,500 ton per day operations. The truck scales are mounted on 90' piers. The remaining tipping area is installed over a geomat foundation to minimize differential settlement caused by degradation of the underlying waste.

Pacific Northwest Maintenance and Welfare Facilities, AMTRAK, Seattle, WA, 2010-2012 - Design Manager and architect for a design build partnership with PCL construction to construct (2) 60,000 SF buildings; an administrative and warehouse facility (Welfare Building) and a Maintenance facility for the Talgo, Cascade and Amtrak lines for Amtrak. The Maintenance building provides wheel truing, wheel changing and general maintenance facilities for Amtrak and Talgo trains at the Holgate yard just south of Safeco field. The four-story Welfare Building provides administrative offices as well as high bay storage of inventory. The project was fast track and won the 2013 DBIA National Award for Transportation projects

Duwamish Mixed Media Transload Facility – Waste Management Inc. Design Manager for the development of a 10-acre site on the Duwamish as the primary handling location for all dredged contaminated soils along the Duwamish Waterway. Project components include a 130,000 SF preengineered fabric covered building that contains a rail spur and truck drive through for loading of dewatered soils onto both trucks and rail cars, soils, as well as the layout of the dewatering machinery. Other project components include a two-story stick-built office building, modular building break room and scalehouse, truck wash, and the rail spur onto the site.

Recycle Works Building, City and Borough of Juneau, AK. 2018 – 2020. Project Architect. This project started out as an evaluation of an existing contractor's shop building that the CBJ was considering for purchase as a new recycling and household hazardous waste collection facility. After the private landfill operator proposed construction of a new recycling center, the CBJ requested that Tetra Tech stop work on the existing shop building and prepare the architectural, structural and mechanical design for a new HHW collection building at the landfill site. Despite the relatively major change in scope, Tetra Tech was able to prepare bid documents for the new HHW building within the CBJ term contract limits. The project was completed in 2020.

Juneau Consolidated Public Works Facility, City and Borough of Juneau, Juneau, AK, 2008 – 2015 - Marcel led Tetra Tech's effort on this project to consolidate the City's existing public works operations that are presently scattered on numerous sites around the City of Juneau. The Tetra Tech team worked closely with City staff and management to develop a working program for a new facility, as well as to design alternative schemes for the new 6+ acre site which is located on a fairly steep hillside. In addition to programming and site planning, Marcel's work included financial analysis and development phasing schemes which will allow the project to evolve logically as funds become available. The vehicle maintenance, vehicle storage and administration components have been completed.

King County South and Central Base Expansion Engineering Services Work Order, E00455E16, King County Metro Transit, Seattle, WA. 2018-2025. Contract Manager and Project Manager for a \$14M design on-call to upgrade and add capacity to Atlantic Central and South Base, two of the busiest King County Metro Transit bases. There have been eight work orders to date. The primary work order is an all-new bus maintenance base adjacent to South Base serving 125 coaches. The South Interim Base project is a \$37M fast track project currently completing construction which features a Maintenance Facility including lift pits, steam clean bay, inspection pits, lube and repair facilities. The site includes new operations and maintenance offices, and complete site design and permitting including a Conditional Use Permit from the City of Tukwila. Project duration from start of design to completion of construction has been three years.

Los Flores Waste Management Facility Relocation, Santa Maria, CA. 2019-2021. Architect for the development of facility plans for the relocation of facilities at an existing landfill to a new landfill site. Work included programming, design charrettes and existing landfill. Facilities included an Administration Building, Vehicle Maintenance Building, Vehicle wash facilities and scales, and pay booths. The project is currently at 35% design level.

Highway 59 Landfill Facility Relocation Architectural Services, Merced County Regional Waste Authority, CA. 2020. Architect for the development of concept level site and facility plans for the relocation of facilities at the existing landfill. Facilities included an Administration Building, Vehicle Maintenance Building, Storage and transfer canopy, and Household Hazardous waste canopies and structures.



JOSEPH DIETZ, PE, SE, LEED AP 3.1.3. Structural, Structural Engineer

EXPERIENCE SUMMARY

Mr. Dietz has experience in civil and structural engineering stemming from his involvement in a variety of residential, commercial, educational and federal projects. His experience includes work on both public and private jobs of varying sizes and construction material types. Mr. Dietz's civil engineering experience includes design of sewer transmission systems, water distribution systems, street and storm drain improvements and grading activities varying from mass grading to final precise grading plans.

Mr. Dietz is also an LEED® Accredited Professional and is at the forefront of sustainable building design. He has ample experience in the area of stormwater quality and quantity management through his experience on several Low Impact Development (LID) and US Green Building Council LEED certified projects. His experience includes the use of bioretention swales, landscape buffers, pervious paving, and other bio-retention facilities to adequately treat and mitigate contaminated storm water flows. As a LEED Accredited Professional, Mr. Dietz brings innovative and valuable solutions to projects that meet or exceed the California State Water Resource Control Board requirements for stormwater pollution prevention. Mr. Dietz has successfully prepared Storm Water Pollution Prevention Plans (SWPPP), Water Quality Technical Reports (WQTR), and Standard Urban Stormwater Mitigation Plans (SUSMP) for various projects throughout the State of California, including areas within the Coastal Zone.

EDUCATION

B.S., Architectural Engineering; California State Polytechnic University, San Luis Obispo

REGISTRATIONS

Registered Civil Engineer, California #67032

Registered Civil Engineer, Nevada #17356

Registered Structural Engineer, California # S-5251

LEED® Accredited Professional

YEARS OF EXPERIENCE

Since 2002

RELEVANT EXPERIENCE

Riverside Dr. near Zoo Dr. Bridge over Los Angeles River, Bridge No. 53C-1298, City of Los Angeles, CA, 2012-Ongoing – With this historic bridge falling below current design standards, Mr. Dietz is managing the completion of environmental documentation and permitting, geotechnical and hydraulic analyses, bridge widening and retrofit, traffic and lighting upgrades, and 100% plans, specifications, and estimates (PS&E) in an effort to fix geometric deficiencies, barrier rail vulnerabilities, structural weaknesses, and Los Angeles River Bicycle Lane impedance issues. Mr. Dietz is coordinating with sub-consultants, stakeholders, and agencies, and is providing regular schedule updates and holding progress meetings to review contract objectives and milestones. This is a federally funded project and plan reviews and approvals by Caltrans District 7 and the Federal Highway Administration (FHWA) are required. This project is currently in the

final design and permitting stage and is expected to obtain construction authorization by March 2015.

Avenue 26 over Arroyo Seco Channel Seismic Retrofit, Bridge No. 53C-1875, City of Los Angeles, CA, 2012 - Ongoing - Tetra Tech was contracted by the City of Los Angeles (City) Bridge Improvement Program to seismically retrofit the Avenue 26 Bridge over the Arroyo Seco Channel in Los Angeles, California. This project will rehabilitate an existing bridge to meet current standards for seismic safety. As Project Manager, Mr. Dietz is responsible for project tasks that included environmental, bridge independent check, utility research and coordination, regulatory and other agency approvals, and preparation of final PS&E. The purpose of the proposed project is to seismically retrofit the arch ribs and spandrel columns; these elements of the bridge have been identified as lacking strength which could lead to collapse of the bridge span in a seismic event. The proposed project includes the retrofitting of the bridge's arch ribs and spandrel columns by applying Tyfo fiber wrap in layers to the areas which require strengthening, then spraying a fire-proofing material that would have a finished appearance of formed concrete. The fiber wrapping would be accomplished by erecting scaffolding under the bridge and handwrapping the ribs and columns in layers. The Bridge Improvement Program received grants from the Federal Highway Bridge Program, with matching funds from the Seismic Bond (Proposition G, approved in June 1990).

Alta Madera Drive Pedestrian Overcrossing Replacement, City of Santa Clarita, CA, 2011 - 2012 – Structural engineer in charge of planning, design, and construction phase services to replace the existing pedestrian overcrossing (POC) over Alta Madera Drive. Constructed in 1979, the timber superstructure showed signs of insect infestation, dry rot, and de-lamination of the glue laminated girders. The project team was tasked with defining an approach to replace the decaying structure. During the planning stage of the project, Tetra Tech's team studied the feasibility of repair and replacement alternatives. Tetra Tech provided estimates of probable construction cost, guidance on current design standards, and several design concepts. The preferred alternative consisted of a single-span configuration with a prefabricated steel truss superstructure.

Bridge Preventative Maintenance Program, City of Santa Clarita, CA, 2011- Ongoing – From 2011 through the current year, Mr. Dietz has acted as the Project Manager and Engineer of Record for the preparation of plans, specifications, and estimates to rehabilitate the various priority listed bridges throughout the City of Santa Clarita. Each year, the City selected Tetra Tech from an open bid process to complete the selected bridges for that calendar year. The projects involved various work items including joint seal assembly replacement, methacrylate application to bridge decks, epoxy injection of concrete cracks, and spalled concrete repair with polyester polymer patching systems. The repair plan for each structure was field verified with City representatives to confirm County and Caltrans recommended repairs and identify any additional repair items to be included in the work plan. Mr. Dietz worked closely with City staff to accelerate the design process and meet the City's budgetary needs. The City has awarded construction contracts to rehabilitate several sets of bridges in the last few years. Repairs were completed successfully. Tetra Tech also provided construction support through field meetings, construction inspections, clarifications to the contractor, and submittal review.

Peck Park Canyon Stormwater Quality Enhancement Project, City of Los Angeles, San Pedro, California. QA/QC Manager and Structural Engineer for the rehabilitation of natural watersheds, reconstruction of trails, bridges and various other park features to improve water quality. This project for the City of Los Angeles, Bureau of Engineering's Department of Public Works also included planning, layout and design of park trail facilities, signage, utilities, infrastructure and recreational facilities. The project incorporated the latest Low Impact Development design strategies in water quality improvement, BMPs, landscape architecture, and Leadership in Energy and Environmental Design (LEED). This was achieved through the implementation of bioswales and infiltration strips at the top of the Canyon, using stepped and armored channels, dissipaters and stilling basins to reduce runoff velocities and erosion throughout the remainder of the Park. Additional tasks completed included, passive recreational amenities and interpretive signage.

Los Angeles Zoo Low Impact Development Project, City of Los Angeles, Bureau of Engineering, Los Angeles, California. QA/QC Manager for this important Proposition "O" project which transformed a standard parking lot into a major opportunity for the City of Los Angeles to demonstrate that water quality improvement and sustainable design can be a part of City's planning and development efforts. The parking lot project's goal was to become the Zoo's first exhibit achieving a "Demonstration on Environmental Sustainability."



PAUL J. STOUT, P.E. 3.1.4. Mechanical, Mechanical Engineer

EXPERIENCE SUMMARY

Mr. Paul Stout currently serves as Vice President for Tetra Tech's Methane Gas Group overseeing all including of operations, project aspects performance, client satisfaction, personnel, business development, and company development for the Western United States. Mr. Stout has 29 years of experience in air quality and landfill gas (LFG) projects and is a leader in the LFG field. His experience includes all aspects of LFG projects, including LFG migration assessment, energy feasibility studies, all phases of design (preliminary construction through plans), permitting, construction. operations start-up, and maintenance. Mr. Stout has managed numerous LFG projects as well as multi-disciplinary projects involving other aspects of landfill design and construction. He also assists on landfill design, landfill permitting, materials recovery facility permitting, and hazardous waste remediation projects.

Recently, Mr. Stout has been instrumental in efforts to grow the company's renewables services, both organics diversion, planning, permitting, and processing, and renewable biogas projects, with emphasis on conversion to vehicle fuel or pipeline quality and injection. Mr. Stout has completed planning, permitting, and design for numerous covered aerated static pile composting facilities and completed air permitting of a large dry anaerobic composting facility in San Jose, California. He has been involved in several of Tetra Tech's BioCNG projects, serving as the engineer of record for the St. Landry Parish project installed in 2012 and the Sacramento Area Transfer Station project installed in 2013. Previously, he completed ancillary design of the facilities supporting an LFG to liquefied natural gas (LNG) facility in Livermore, California.

EDUCATION

M.S., Environmental/Civil Engineering, University of California at Berkeley, 1993

B.S., Civil Engineering, University of California at Berkeley, 1991

REGISTRATIONS / AFFILIATIONS

Registered Professional Engineer in California, Hawaii, Louisiana, Nevada, Oklahoma, Oregon, Texas, South Carolina, Kansas, Washington

Solid Waste Association of North America (SWANA)

ADDITIONAL TRAINING

OSHA 40-hour HAZWOPER Training / OSHA 8-hr. HAZWOPER Refresher

AREAS OF EXPERTISE

- Air Compliance / Organics
 Services / Landfill Gas-to-Energy
- Landfill Gas System Design, Permitting, Construction, Operations, Maintenance, and Monitoring

OFFICE

Dublin, California

YEARS OF EXPERIENCE

Since 1991

YEARS WITH TETRA TECH

Since 2006

RELEVANT EXPERIENCE

ORGANICS

CASP Facility Design, Redwood Landfill, Novato, California. Prepared conceptual plans and detailed design of a covered aerated static pile composting project capable of 500 tons per day of materials in Novato, California. Project including design of piles, piping, manifold system, sensors, blower skid, control panel, and biofilter. Mr. Stout has also been involved in the subsequent expansion of this facility to accommodate increased tonnages and the current permitting to further increase the capacity based on increasing feedstock.

CASP Facility Permitting, Design, and Construction Support, Waste Management Altamont Landfill and Resource Recovery Facility (ALRRF). Oversaw preparation of design plans to provide ALRRF with options for facility location, bay sizing, piping and bay layout, stormwater and contact water collection and conveyance, and traffic and material processing patterns. The site is capable of accepting a daily feedstock of up to 500 tons per day of green waste with food waste from residential and commercial sources.

CASP Facility Design. Prepared conceptual plans of a covered aerated static pile composting project in San Francisco Bay Area. Project is in early stages and detailed design details are currently be developed through the planning efforts.

AD Facility Permitting & Design. Completed air permitting of large anaerobic digestion facilities in San Jose, California and Alabama. Project including handling facilities air permitting as well as flare, IC engines, and BioCNG skids to make vehicle fuel

.

AD Facility Design. Project Manager for a large anaerobic digestion facility in Sacramento California, completed design of biogas facilities, including biogas controls package, BioCNG skid to make vehicle fuel, flare, piping, and controls.

Design of Organics Management Facilities. Worked on planning of organics management facilities with large solid waste client and multiple locations in California. Project is still ongoing.

GRANTS FOR BENEFICIAL USE AND ORGANICS DIVERSION PROJECTS

Alternative and Renewable Fuel Grants, Las Gallinas Valley Sanitation District. Prepared numerous grant applications, successful with all, for project, which included adding a WWTP biogas upgrading to combined heat and power or RNG for use in vehicles or boilers, inclusive of the CEC Alternative and Renewable Fuel and Vehicle Technology Program - \$250K; CEC Advancing Clean Energy from Biogas, Biomethane, and Natural Gas - \$1,000,000; California Alternative Energy and Advanced Transportation Financing Authority (CAEATFA) Sales and Use Tax Exemption – Tax Reduction; and the Self-Generation Incentive Program (SGIP) through PG&E - \$180,000. Managed the grant obligation efforts and administration.

Prepared a grant application for the Alternative and Renewable Fuel and Vehicle Technology Program - Community-Scale and Commercial-Scale Advanced Biofuels Production Facilities for the Monterey Regional Waste Management District project which included adding a landfill biogas upgrading to RNG for use in vehicles - \$1.8 million dollars. Managed the grant obligation efforts and administration.

Assisted by provide relevant materials for a grant application for the Alternative and Renewable Fuel and Vehicle Technology Program - Community-Scale and Commercial-Scale Advanced Biofuels Production Facilities for the Los Angeles County Sanitation Districts project which included adding a WWTP biogas upgrading to RNG for use in vehicles - \$2.5 million dollars.

Prepared a grant application for CalRecycle Org 4 for the Monterey Regional Waste Management District and Keith Day Company projects to convert windrow to covered aerated static pile composting operations projects. Monterey Regional Waste Management District received a passing score but did not get immediately funded.

Assisted applicants with engineering materials for numerous other projects for which grant applications were being prepared.

AIR/ SOLID WASTE COMPLIANCE

Developed a 15-year scope of services to achieve compliance with air quality regulations, such as the New Source Performance Standards (NSPS), as well as utilize the LFG for an energy development project at the Jefferson Parish Landfill in Louisiana. Managed the project and was engineer of record. The project included engineering design and permitting of the LFG collection and control system, multiple phases of construction of the LFG system, and 15 years of O&M. Completed over 7 due diligence reports and year-end environmental compliance audits for a national solid waste firm. Planned and coordinated for short-term projects extensive field data collection activities on as many as 169 sites per report. Compiled data, prepared report, and compiled summary information and data for all aspects of air quality compliance for the sites.

One-day presentation to New Mexico regulatory agency on the upcoming NSPS/EG and air quality regulations in 1998.

Worked with regulators to obtain regulatory approval for modified NSPS monitoring, reporting, and record keeping plans. Also achieved approval of other variations in NSPS/EG requirements in various states.

LANDFILL GAS FACILITY MANAGEMENT AND DESIGN

Managed an LFG clean up to fuel cell project for a technology company. Assists the client with managing the project from permitting and design through construction. The project includes a variety of design and construction, from process, geotechnical, mechanical, electrical, and LFG engineering. Assists the client with managing the project costs, schedule, via weekly conference calls with the project team.

Worked as Engineer-of-Record on the St. Landry Parish BioCNG vehicle fuel project. Worked with the engineering team to complete the design and engineering for the project. Project has been online and operational for 3 years.

Worked as Engineer-of-Record on the Sacramento South Area Transfer Station BioCNG vehicle fuel project. Worked with the engineering team to complete the design and engineering for the project. Project has been online and operational for three years. During Phase 2, assisted the client

with managing the project from design through construction. The project includes a variety of design and construction, from process, mechanical, electrical, and digester biogas engineering.

Assisted the client with managing the project costs and schedule through frequent communications during the project.

Assisted with both engineering and management on the Las Gallinas Valley Sanitary District digester biogas clean-up for use with micro-turbines or further processing CNG vehicle fuel.

Assists with managing the project from permitting and design through construction. The project includes a variety of design and construction, from process, geotechnical, mechanical, electrical, and biogas engineering. Assists with managing the project costs and schedule via frequent communications with the project team. The project is currently ongoing and should be constructed by early to mid-2016.

Worked as the Master Engineer and contract administrator for the University of California (UC) Regents, Office of the President, to oversee the UC's development of high Btu biogas to pipeline injection projects. Involves managing the project development team, performing detailed design review, witnessing construction, and documenting the project completion.

LANDFILL GAS DESIGN

Designed an LFG system upgrade in Las Vegas adding a sulfur treatment plant, low NOx flare, booster blower for delivery of gas to an electrical generation project, as well as miles of HDPE pipeline and well additions.

Designed LFG system upgrade to combine several LFG systems at formally neighboring landfills into a single LFG system capable of providing over 15,000 cfm to an onsite LFG to electricity project of low NOx flares, while maintaining other flares to maintain operational flexibility.

Designed LFG collection and control systems, including vertical and horizontal collectors, open and enclosed flares, condensate injection, leachate evaporation, and LFG-to-energy projects involving conversion to high Btu fuel, electricity, and direct sales at over 40 sites nationwide.

Designed full site LFG collection and control system at Washington County, Utah Landfill.

Designed full site system with vertical wells, flare system, and condensate management facilities.

Designed expansion of LFG collection and control system at ECDC Landfill hazardous waste site in Utah. System included vertical wells, piping, and condensate management facilities.

Designed LFG collection and control system at the Butterfield Landfill in Arizona. Vertical wells, piping, and flare facility. Designed and performed construction management on a later expansion of the LFG collection and control system.

Designed expansion of LFG collection and control system at the Maui County Central Landfill in Hawaii. Wrote an LFG-to-energy Request for Proposal to add an LFG-to-energy project to the system.

Designed full site LFG collection and control system at Jefferson Parish Sanitary Landfill. Prepared long-term planning document to include energy development.

Designed LFG system expansion for Olympic View Sanitary Landfill, including E-Vap unit, near Seattle, Washington.

Designed LFG system expansion for Riverbend Landfill near Portland, Oregon, Altamont, Kirby Canyon, Tri Cities, Guadalupe, and Marina Landfills near San Francisco, California, and Colonial Landfill near Baton Rouge, Louisiana.

Guangzhou, China. Completed a total LFG collection and control system design package, construction phasing plan, and O&M plan for a new 15.3 million megagram landfill. The LFG system included multiple LFG collection elements and a state-of-the-art LFG treatment works with multiple LFG blowers, flares, and leachate evaporation units.

Designed a migration control system for the 100-acre Fort Worth Regional Landfill in Texas. Later prepared a landfill gas-to-energy feasibility study for the site that included detailed analysis for generation of electricity, direct sale, or distribution to a natural gas pipeline. Prepared a condensate disposal and flare facility location cost analysis. Prepared NSPS design plan and completed Title V operating permit. Designed the NSPS LFG system for the entire site including LFG condensate injection into the flare. Constructed the LFG system and provided construction quality assurance and quality control. Provided O&M of the LFG system including NSPS compliance, which included source testing of the flare, monthly monitoring, perimeter probe monitoring, and reporting.

Designed solution alternatives for problematic LFG systems, Palo Alto and Chiquita Canyon Landfills, California.

PUBLICATIONS & PRESENTATIONS

Time for a Change? Transitioning from Windrow Operations to Aerated Static Pile Composting. Maura Dougherty, P.E., P. Stout, P.E., U.S. Composting Council Conference, Jacksonville, Florida, January 2016.

Conversion of WWTP Digester Gas into Compressed Natural Gas Vehicle Fuel, Paul Stout, P.E., Jessica Bernardini, P.E., Renewable Waste Intelligence Conference, December 2015.

Conversion of WWTP Digester Gas into Compressed Natural Gas Vehicle Fuel, Paul Stout, P.E., Jessica Bernardini, P.E., BioCycle Conference, Boston, Massachusetts, October 2015.

CNG Vehicle Fuel – A Growing Trend, Paul Stout, P.E., Pacific Northwest Solid Waste Association of North America (SWANA) Symposium, Portland, Oregon, April 2015.

Request for Proposal No.: K-22-2049-DB1-3-C

Biogas USA West Conference, Paul Stout, P.E., D. Fenn, San Francisco, California, October 2012. Leaping Forward to Energy Recovery – Increasing Your GCCS Output and Removing Sulfur to Bring an Energy Project Online, Western Region SWANA Symposium, Paul Stout, P.E., M. Dougherty, T. Pelletier, T. Whittle, Palm Springs, California, April 2012.

Maintaining Compliance During Final Cover Construction, SWANA Landfill Gas Conference, Paul Stout, P.E., D. Thompson, Atlanta, Georgia, March 2009.

Landfill Gas Management: Combining Field Services and Compliance to Save Costs; Global Waste Management Symposium, Paul Stout, P.E., Copper Mountain, Colorado, September 2008; Landfill Gas Symposium, SWANA, Paul Stout, P.E., Monterey, California, March 2007.

Emissions Credit Trading for Landfills, SWANA, Paul Stout, P.E., M. Stutz, D. Bubenick, Orlando, Florida, March 1999.

Flare Injection of LFG Condensate: How Practical and Cost Effective is it?; SWANA Wastecon, Paul Stout, P.E., D. Vonasek, New Orleans, Louisiana, February 1999.

The Advantage of a Design/Build Approach for Installation of a Landfill Gas Collection and Control System; TNRCC Options for Texas Conference, Paul Stout, P.E., L. Walden, Austin, Texas, February 1998.

From Idea to Installation - A Landfill Gas-to-Energy Case Study, TNRCC Options for Texas Conference, Paul Stout, P. E., B. Lloyd, J. Mayfield, P.E., Austin, Texas, December 1996.

Innovative Program for Performing NSPS Tier 3 Testing and Evaluating the NSPS Design Guidelines, Texas Natural Resource Conservation Commission (TNRCC) Options for Texas Conference, Paul Stout, P. E., B. Lloyd, S. Trebus, Austin, Texas, December 1995.



ALEX NEWELL, P.E. 3.1.4. Mechanical, Mechanical Engineer

EXPERIENCE SUMMARY

Alex Newell is a Project Manager in Tetra Tech's Dublin, California office where his responsibilities include but are not limited to designing and managing landfill gas (LFG) collection and control systems (GCCS); designing covered aerated static pile (CASP) compost facilities, designing beneficial use facilities, conducting construction quality assurance (CQA) and construction management, and preparing grant applications

.

RELEVANT EXPERIENCE

ORGANIC WASTE MANAGEMENT FACILITIES Republic Organics Management Facilities. Prepared conceptual plans and construction detailed design aerated static pile (ASP) composting projects capable of 100-700 tons per day of materials in California. Projects included the design of piles, piping, manifold system, sensors, blower skid, control panel, and biofilter. Project sites included West Contra Costa Sanitary Landfill, Newby Island Landfill, and K&M Recycling Facility.

Orange County Waste & Recycling Organics Management Facilities. Prepared conceptual plans and construction detailed design aerated static pile (ASP) composting projects capable of 100-700 tons per day of materials in California. Projects included the design of piles, piping, manifold system, sensors, blower skid, control panel, and biofilter. Project sites included Valencia Greenery, Capistrano Greenery, and Bee Canyon Greenery.

Waste Management Organics Management Facilities. Prepared conceptual plans and construction detailed design aerated static pile (ASP) composting projects capable of 100-700 tons per day of materials in California. Projects included the design of piles, piping, manifold system, sensors, blower skid, control panel, and biofilter. Project sites included Altamont Landfill & Resource Recovery

EDUCATION

B.S., Geological Engineering, University of Wisconsin, Madison, 2016

B.S., Geology & Geophysics, University of Wisconsin, Madison, 2016

REGISTRATIONS / AFFILIATIONS

Registered Professional Engineer in California

Solid Waste Association of North America: Gold Rush Chapter

TRAINING / CERTIFICATIONS

OSHA 40-hr. HAZWOPER Training

AREAS OF EXPERTISE

- Organics Services and Design
- Landfill Gas and Control System Design, Operations, Maintenance, and Monitoring
- Construction Management/CQA
- Landfill Gas-to-Beneficial Use/Biogas
- Landfill Gas Cleanup

OFFICE

Dublin, California

YEARS OF EXPERIENCE

Since 2013

YEARS WITH TETRA TECH

Since 2016

Facility, Redwood Landfill, and Kirby Canyon Recycling & Disposal Facility

BENEFICIAL USE/BIOGAS

Monterey Regional Waste Management District- Marina Landfill. Project Engineer for the design and installation of a biogas conditioning facility utilizing anaerobic digestor gas and landfill gas to compressed natural gas as an existing fueling station.

GCCS DESIGN SERVICES

Republic Services GCCS Master Planning. Master planning and lifetime budget planning for various Republic and Waste Management landfills by quantifying LFG production using the United States Environmental Protection Agency's (USEPA's) LandGEM and sizing the GCCS and determining piping layouts using KYGas. Project sites included Newby Island Landfill, Ox Mountain Landfill, Keller Canyon Landfill, Vasco Road Landfill, Apex Landfill, Sonoma Central Landfill, and Forward Landfill

Republic Services GCCS Improvement Design. Designed multiple GCCS improvement projects at landfills located throughout California. Lead the design of large diameter piping, new enclosed Low NOx flare stations, condensate management sumps, and wellfield improvements, including horizontal collectors and vertical extraction wells and associated piping.

Waste Management Simi Valley Landfill, California. Designed hydrogen sulfide treatment system capable of treating entirety of landfill gas to meet permit limits and for the development of a biogas-to-renewable natural gas.

Waste Management, Lancaster Landfill, California. Designed hydrogen sulfide treatment system capable of treating entirety of landfill gas to meet permit limits and for the development of a biogas-to-renewable natural gas.

Monterey Regional Waste Management District, Marina Landfill, California. Designed hydrogen sulfide treatment system capable of treating entirety of landfill gas to meet permit limits and for the development of a biogas-to-renewable natural gas.

Waste Management GCCS Master Planning. Master planning and lifetime budget planning for various Republic and Waste Management landfills by quantifying LFG production using the United States Environmental Protection Agency's (USEPA's) LandGEM and sizing the GCCS and determining piping layouts using KYGas. Project sites included Kirby Canyon Recycling and Disposal Facility, Guadalupe Rubbish Disposal Facility, Altamont Landfill and Resource Recovery Facility, Redwood Landfill, Orchard Ridge, and Pheasant Run.

Waste Management GCCS Improvements. Designed over GCCS improvement projects at Landfills located in California. Lead the design of large diameter piping, new enclosed Low NOx flare stations, condensate management sumps, and wellfield improvements, including horizontal collectors and vertical extraction wells and associated piping. Project sites included Simi Valley Landfill, Kirby Canyon Recycling and Disposal Facility, Guadalupe Rubbish Disposal Facility, Altamont Landfill and Resource Recovery Facility, and Redwood Landfill

Maui County Central Maui Landfill GCCS Improvements. Designed over GCCS improvement projects at Landfills located in California. Lead the design of large diameter piping, new enclosed Low NOx flare stations, condensate management sumps, and wellfield improvements, including horizontal collectors and vertical extraction wells and associated piping.

Monterey Regional Waste Management District – GCCS Improvements, Marina Landfill. Project Engineer for design of upgrades to an existing GCCS to meet the fuel standards for beneficial end use. Project included preparing a wellfield evaluation to evaluate current conditions, evaluate design criteria related to beneficial end use equipment, and preparing design drawings for a proposed facility layout.

CONSTRUCTION MANAGEMENT/CQA

Managed and/or performed the construction management or construction quality assurance and control for various landfill gas collection and control system improvement, and organics projects throughout the Western US. Projects have included extraction wells, large and small diameter piping, pumps, foundations, blower skids, enclosed flares, compost facilities, instrumentation and other landfill gas control devices. Construction management included coordination between client and contractor and preparation of certification reports. Prepared construction cost estimates and equipment and material order forms for landfill gas collection and control system improvement and CASP facility construction projects including installation and material costs for all new materials equipment. Project sites include:

- Monterey Regional Waste Management District- Marina Landfill
- Maui County: Central Maui Landfill
- Newby Island Landfill
- Ox Mountain Landfill
- Forward Landfill
- West Contra Costa Sanitary Landfill
- Waste Management, Simi Valley Landfill
- Waste Management, Lancaster Landfill
- Kirby Canyon Recycling and Disposal Facility
- Guadalupe Rubbish Disposal Facility
- Altamont Landfill and Resource Recovery Facility
- Redwood Landfill

PUBLICATIONS & PRESENTATIONS

- The Challenges and Lessons Learned for Start-up of Automated Covered Aerated Static Pile Composting Facilities. Alex Newell, E.I.T., Maura Dougherty, P.E., U.S. Composting Council Conference, Phoenix, Arizona, February 2019.
- The Challenges of Transitioning to Renewable Natural Gas Generation at Landfills. Alex Newell, E.I.T., Paul Stout, P.E., Tom Bilgri, P.E., Western Regional Solid Waste Association of North America Conference, Yosemite, California, April 2019.



MAZEN KASSAR, P.E.

3.1.6. Electrical / 3.1.7. Instrumentation and Controls, Instrumentation and Controls Manager

EXPERIENCE SUMMARY

Mr. Mazen Kassar has more than 29 years of experience in electrical engineering and industry standard that include electrical engineering staff management, project management, construction management and supervision, water and wastewater treatment, petro-chemical design, and environmental soil and groundwater treatment. His background includes designing medium and low voltage power distribution, designing instrumentation, control systems and SCADA systems for a wide-variety of projects, and the installation of electrical systems for remediation projects, including soil vapor extraction systems and groundwater pump-and-treat systems. Other experience includes, working with utility companies to provide new electrical service to new projects, working with local Building and Safety Departments to obtain permits, field trouble shooting of electrical and mechanical systems, system commissioning and startup, problem solving, and managing an operation and maintenance department.

RELEVANT EXPERIENCE

Liberty Utilities-Compton East Reservoir and Booster Pump Station, Compton, CA. Electrical Engineer designed and developed electrical and instrumentation plans to power and monitor the booster pump station with pumps equipped with variable frequency drive (VFD), and communicate through dome antenna.

Lakewood Plant 13 Project, Lakewood, CA. Managed the electrical design for Plant 13 pump station upgrade. The design consists of replacing the plant's old MCC with new outdoor NEMA 3R MCC, installing new conduits and wires to the new pumps, and reinstalling the existing control and telemetry system. This replacement upgrade required interfacing with Southern California Edison (SCE) and relocating the existing ATS.

Loma Linda University Anderson No. 4 Well, Loma Linda, CA. Electrical Engineer responsible for

EDUCATION

BS, Electrical Engineering, California State University, Long Beach, 1990

REGISTRATIONS/ CERTIFICATIONS

Professional Electrical Engineer, California, No. 15809, 1998

General Construction, Class B No. 777845, CA, 2008

Contractor - C-10 Electrical, California Class C – Specialty, No. 777845, 2000

ETAP Electrical Power Modeling, 2010

Project Management I & II, 2012

Auto CAD, 2005

GE and Allen Bradley PLC programming, 2004

GE/Intellution and Wonderware SCADA programming,1998

Vapor e\extraction and Groundwater Treatment, 1991

OSHA 8-hour Hazardous Waste Operations Annual Refresher Training, 2016

OSHA 8-hour Hazardous Waste Operations Site Supervisor Training,1992

OSHA 40-hour Hazardous Waste Operations Training, 1989

YEARS OF EXPERIENCE

Since 1992

YEARS WITH TETRA TECH

Since 2009

creating electrical plans, specifications, electrical load schedules, panel schedules, conduit and wire sizing, electrical details, emergency standby generator sizing, creation of pump control schematics, drafting technical specifications, and preforming electrical power system studies that included load flow, short circuit, and arc flash calculations. The project design included providing a new pump, a new PLC system to control well pump and providing lighting system.

Alamitos Electrical Upgrade, Long Beach Water Department, Long Beach, CA. Supervised electrical design for 23 water reservoirs. The electrical design included designing power distribution for these reservoirs, designing trenching and duct banks, utility underground boxes, conduit and cable sizing, and large mobile pumps connection.

Albert Robles Center for Water Recycling and Environmental Learning (Formerly known as GRIP), Water Replenishment District of Southern California, Pico Rivera, CA. Electrical Engineer for a new 13,000 acre-feet per year of fully advanced treated recycled water. Treatment process includes influent facilities, MF/UF system, RO system, UV Advanced Oxidation system, post-treatment/stabilization/disinfection, product water wet well, and brine/waste disposal connection.

Donald C. Tillman Water Reclamation Plant Electrical Modifications, City of Los Angeles, Bureau of Engineering, Van Nuys, CA. Project Manager responsible for preparing electrical engineering design that include plans, specifications, and cost estimate to modify the facility's medium voltage power distribution system. The project consists of upgrading old medium voltage switchgears with two new 4160V, 3000A ones and converting loop system to dual radial system and providing power redundancy for the whole plant. The project also included site investigations to verify ratings, settings, and locations of equipment and performing electrical power system studies that include load flow, short circuit and arc flash calculation using ETAP software. Project is currently in construction phase.

Elizabeth Reservoir, Booster Pump Station and Well No. 29, City of South Gate, CA. Engineering design services for a water storage tank and booster pump station and a water well with disinfection equipment. Electrical engineering services included three new 125 horsepower booster pumps and adding and installing new conduits and wires to the new pumps. Responsible for preparing plans, specifications, and load calculation to modify the facility's extensive distribution system. Site investigations were conducted to verify ratings, settings, and locations of equipment. Working with utility company to provide new service to the project.

Pyrite Canyon Treatment Facility, State of California, Department of Toxic Substances Control, Glen Avon, CA. Performed design of electrical power and distribution system for a new treatment facility. The design included sizing solar system to feed the new plant, sizing power equipment like inverters, step up and step-down transformers, overhead and underground distribution, switchboard, MCC and cable trays, performing load flow and short circuit studies using ETAP power modeling software.

Maxine Lift Station Bypass Connection Project, City of Santa Ana, CA. The purpose of this Project was to install a connection on the existing force main that would allow the City to bypass sewer flows around the existing lift station utilizing a portable pump from the existing wet well to

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the force main. Managed the electrical power system studies which included load flow, short circuit, and arc flash calculations.

Carson Regional Water Reclamation Facility, West Basin Municipal Water District, Carson, CA. The Carson Regional Water Reclamation Facility was originally constructed to provide both MF/RO treated water at 3.2 mgd and nitrified Title 22 water for industrial purposes. Tetra Tech was part of the 30% design team for an expansion of the facility to add 2.5 mgd of microfiltration (MF) using pressurized membrane system along with a 2.0 mgd tertiary MBR facility to produce nitrified water. Mr. Kassar served as Electrical Engineer.

Santa Ana, CA. Provided preliminary and final electrical design services for relocation of 19,500 linear feet segment of 54-inch trunk interceptor, 6,000 linear feet of 15- and 18-inch sewer mains, flow metering station, and the decommissioning of the existing trunk interceptor segment. The project included the installation of two separate siphons below the Santa Ana River using microtunneling construction method while complying with multiple environmental and permitting constraints.

Water And Sewer System SCADA Project 12605 and 13501, City of San Clemente, CA. Designed 35 water and wastewater facilities that included reservoirs, pumping stations, turnouts, lift stations and utilities interties. The design included replacing the existing PLC with new Alan Bradley, Compact Logix PLC, replacing the operator interface terminal (OIT) with new AB panel view and upgrading the old radio communication system with the 900MHZ Ethernet radios and antennas.



PAUL WILLMAN

3.1.8. Environmental, Environmental Compliance Manager (Design / Permitting)

EXPERIENCE SUMMARY

Mr. Willman has 24 years of solid waste regulatory compliance and environmental protection program experience. He has worked for an international solid waste management company, a California regulatory agency, and has been responsible for managing implementation of corporate environmental protection and regulatory compliance programs for 50 landfills, transfer stations and collection facilities in Southern California. Mr. Willman has also been responsible for project management of all aspects of solid waste facility permitting and other related regulatory compliance activities.

RELEVANT EXPERIENCE

Solid Waste Regulatory Permitting Document Preparation. Project Manager for CEQA support and development of permitting documents for numerous solid waste facilities. Duties have included coordination of all engineering, design, permitting, geotechnical, planning, construction support and/or management work tasks, scheduling, budget control and client, agency and community interface. Specific projects include the following:

 Joint Technical Document, Sunshine Canyon Landfill, Los Angeles County, California. Prepared Joint Technical Document (JTD) and design documents and procured revised Waste Discharge Requirements (WDR) and Solid

Waste Facility Permit (SWFP) for a lateral and vertical expansion and consolidation of two existing landfills. Project involved coordination and negotiation with several regulatory agencies and participation in community meetings.

- Five Year SWFP Reviews for various landfills including the Simi Valley Landfill and Recycling Center, Azusa Land and Reclamation Company, Lancaster Landfill and Recycling Center, Antelope Valley Public Landfill # 1, Sunshine Canyon City Landfill, and the Bradley LFl and Recycling Center
- Preliminary Engineering Design Report, Project Description and CEQA Support Services for the proposed Santa Maria Integrated Waste Management Facility, Santa Maria, California. Included a leadership role in two community outreach meetings as part of the Environmental Impact Report public review process.
- Technical Review and CEQA Support Services for Environmental Impact Report, and development of Joint Technical Document and Application Package for Revised WDRs and SWFP, Barstow Sanitary Landfill Lateral Expansion, Barstow, California.

EDUCATION

B.S., Environmental Science, University of California, Riverside, 1980

CERTIFICATIONS / TRAINING

Certified Hazardous Materials Manager

OFFICE

Diamond Bar, California

YEARS OF EXPERIENCE

Since 1988

YEARS WITH TETRA TECH

Since 2006

- Conditional Use Permit, EIR and Joint Technical Document for Tonnage Increase, Lancaster Landfill, Los Angeles County, California. Included a leadership role in the community outreach meeting as part of the Environmental Impact Report public review process.
- Technical Review and CEQA Support Services for Environmental Impact Report, and development of Joint Technical Document and Application Package for Revised WDRs and SWFP, Newby Island Sanitary Landfill Vertical Expansion, Santa Clara County, California.
- Joint Technical Document, Fairmead Landfill, Madera County, California. Preparing Joint Technical Document and design documents and procuring revised SWFP and RWQCB approval for a vertical expansion.
- Regulatory Permitting, Barstow Sanitary Landfill Sliver Fill Project, San Bernardino County, California. Providing permitting and technical support for CEQA document preparation for steepening of side slopes at this active municipal landfill. Responsible for preparation of project description, coordination of final grading design, hydrology studies, and slope stability analyses.
- Regulatory Compliance Assessment and Development of Master Environmental Requirements Task List and Environmental Databases for five (5) Landfills in Orange County, California.
- Conditional Use Permit and Transfer Process Report assistance for new proposed transfer station and material recovery facility, Bradley Landfill, Sun Valley, California.
- Report of Facility Information and Solid Waste Facility Permit, California Waste Services Construction & Demolition Waste Processing Facility, Gardena, California.
- Report of Facility Information and Solid Waste Facility Permit, California Waste Services Construction & Demolition Waste Processing Facility, Gardena, California.
- Transfer Processing Report, Southgate Transfer Station, Southgate, California.
- Final Closure Post-Closure Maintenance Plan, Picacho Landfill, Imperial County, California.
- Preparation of Project Description and CEQA Support for an eight acre expansion of the Colton Sanitary Landfill, San Bernardino, California.

Conditional Use Permit Preparation, Bradley Landfill and Recycling Center, Sun Valley, California. Prepared Conditional Use Permit / Zone Variance Package for new transfer station / MRF being developed by Waste Management. This included liaison / negotiation with the City of Los Angeles throughout the permitting process.

Land Use Entitlement, WTR Transfer Station, Los Angeles, California. Prepared Zone Variance Modification in support of tonnage increase at this transfer station operated by Waste Management, Inc. in downtown Los Angeles.

Conditional Use Permit Modification, Moreno Valley Transfer Station, Moreno Valley, California. Prepared modification to Conditional Use Permit in support of an increase in tonnage being handled by facility.

Permitting Documents, Edom Hill Transfer Station / Material Recovery Facility, Cathedral City, California. Prepared complete Solid Waste Facility Permit package for a new transfer station / MRF being developed by Waste Management, Inc.

Solid Waste Facility Permitting and Regulatory Compliance. Acted as Western Group Environmental Manager, for Waste Management, Inc. for seven years. Managed all aspects of the environmental protection program for WMI's solid waste facilities in Southern California. Duties included project management of various Solid Waste Facility Permit revision projects, including the Bradley Landfill, El Sobrante Landfill, and permitting of the new Edom Hill Transfer Station in Riverside County

Solid Waste Facility Permitting and Regulatory Compliance. Supervised permitting and inspection program for the California Integrated Waste Management Board in Southern California for eight years (1991-1999). Overall responsibilities included planning and direction of the state permitting, inspection, enforcement and CEQA programs for CIWMB's Southern California region. Responsible for oral presentations at Board meetings in Sacramento on a monthly basis. Southern California team consistently met and exceeded program objectives. Also responsible for developing and implementing various statewide program policy and regulatory projects.



PETER SKOPEK, PHD, P.E., G.E. 3.1.9. Geotechnical, Geotechnical Engineer

EXPERIENCE SUMMARY

Dr. Skopek has more than 25 years of professional experience in geotechnical engineering. He has been involved with geotechnical engineering projects for numerous private and public clients. These projects included deep and shallow foundation design, slope assessment and stabilization design, ground stabilization, design of braced, cantilevered, tieback, soil nail, and mechanically supported retaining walls and excavations, landfill design and redevelopment, liquefaction assessment and geotechnical seismic design, pavement and geotechnical road design, performance reviews and design of earthen dams, geotechnical site investigation, design and implementation of laboratory programs, execution of field inspections, and provision of geotechnical services during construction. Dr. Skopek has been involved with permitting procedures and presentations to local governing agencies. He has provided numerous peer, senior, and third party reviews, including reviews for local agencies, and has acted as an expert in numerous forensic and litigation cases.

RELEVANT EXPERIENCE

SOLID WASTE MANAGEMENT

Solid Waste Intermodal Facility Design, Puente Hills Intermodal Facility, Industry, California. Provided geotechnical engineering support during design of a facility where waste will be transferred from the Puente Hills Landfill, and onto railroad cars for transport to the Mesquite Regional Landfill. This included geotechnical design of the trench access corridor, four miles of railroad track, and five associated bridges.

Alternative Final Cover System Design, Vandenberg Air force Base Landfill, Santa Barbara County, California. Dr. Skopek acted as the principal geotechnical engineer for the design and construction of the proposed final cover for the VAFB Landfill. The project included evaluation of the infiltration through the prescriptive cover defined by the CCR - Title 27 under historic local climate conditions and performance of the alternative cover design to comply with the hydraulic

EDUCATION

Ph.D., Geotechnical Engineering, University of Alberta, Edmonton, Canada

M.Sc., Geotechnical Engineering, Czech Technical University, Prague, Czech Republic

REGISTRATIONS/ AFFILIATIONS

Registered Civil Engineer, California, 1999 (#59242)

Registered Geotechnical Engineer, California, 2004 (#2635)

Professional Engineer, Alberta (1995)

TRAINING/ CERTIFICATIONS

OSHA 40-hour HAZWOPER Training

YEARS OF EXPERIENCE

Since 1988

YEARS WITH TETRA TECH

Since 2004

equivalency derived from the regulations of CCR-Title 27. Soil water characteristic curves for the considered onsite materials were developed and implemented in the analyses. Climate data from stations within VAFB and nearby cities Santa Maria and Santa Ynez were evaluated and used for the cover infiltration analyses. The cover infiltration analyses were performed using the computer program HELP v3.07.

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Cal Compact Landfill Closure and Redevelopment Design, Carson, California. Project involves construction of a mixed-use development on 157 acres of an old landfill which was on the California Superfund list. Services included settlement potential evaluation necessary for the engineering design, field investigation to delineate the extent of refuse and cover characterization, review and design of perimeter slope cover systems, development of CQA plans for installation of cover systems, development of vibration monitoring plans for deep dynamic compaction and driven pile installation, monitoring of construction vibrations generated by deep dynamic compaction, and CQA for perimeter slope cover system. This project was performed under the direct oversight by DTSC.

Landfill Closure Design and Redevelopment Planning, WDI Superfund Site, Santa Fe Springs, California. Dr. Skopek acted as the principal geotechnical engineer for the regulatory approval of the redevelopment of an approximately 38-acre Superfund site. The site was previously used as a disposal site for oil field wastes and has been remediated near its center with a Resource Conservation and Recovery Act (RCRA) Subtitle C equivalent cap and at other site areas with variations of a RCRA Subtitle D equivalent cap. The proposed use of the site required modification of the final cover to provide adequate traffic and final use surface performance while meeting or exceeding the performance of the Subtitle C and Subtitle D prescriptive covers. Thus the equivalency of the modified cover needed to be demonstrated for the regulatory approval by the US EPA. The analyses were performed using the computer program Hydrologic Evaluation of Landfill Performance, HELP Model Version 3.07 and UnsatH.

Landfill Closure Design and Redevelopment Planning, Shoreline Landfill Redevelopment, Mountain View, California. Dr. Skopek acted as the principal geotechnical engineer for the redevelopment of an 11.7-acre closed sanitary landfill located within the Shoreline Regional Park into a public recreational facility. The site was required to be developed while complying with the landfill closure plan and without encroachment into the existing final cover system or refuse and following all applicable regulations to maintain the closed landfill status and be suitable for approval by the San Francisco Bay Regional Water Quality Control Board. The project included geotechnical characterization to compile relevant geotechnical data from published sources, utilization of available historic information and aerial photographs, performance of preliminary subsurface investigation, processing the collected data, performance engineering analyses to develop a basis for evaluation of various land use scenarios and provision of parameters for preliminary grading and foundation design. A special focus was on the governing geotechnical design consideration which is the prediction of the settlement potential across the site which largely depends on the distribution and thickness of the refuse and the proposed above grade modifications.

Corona Landfill Closure Design and Redevelopment Planning, Corona, California. Dr. Skopek acted as the geotechnical engineer of record for the preliminary geotechnical characterization investigation to support land use planning and structural and grading design of the proposed 79-acre Corona Landfill redevelopment with refuse thickness up to about 140 feet closed since 1991. The project included geotechnical characterization to compile relevant geotechnical data from published sources, utilize historic available information and aerial photographs, collect groundwater information, and perform preliminary subsurface investigation within the landfill

limits. The field investigation consisted of 9 deep hollow stem auger borings, 8 cone penetrometer tests, and 10 trenches. The collected and interpreted data were used to provide a basis for evaluation of various land use scenarios and provide parameters for grading and foundation design. Specific focus was on the evaluation of the settlement potential of the landfill surface.

Landfill Expansion Design, Billy Wright Landfill, Merced County, California. The design of the composite base and slope liner consisting of GCL and 60-mil HDPE geomembrane as the primary and secondary barrier, the liner system also uniquely included an encapsulated 5 feet thick structural fill liner separation layer to comply with the regulatory requirement of 5 feet of separation from local groundwater.

Liquids Storage Pond Design, Newby Island Landfill, San Jose, California. Principal Geotechnical Engineer for design and oversight of construction of three-acre storage pond dyke for seepage and precipitation water management.

Closed Landfill Redevelopment Planning, Branford Landfill, Sun Valley, California. Principal Geotechnical Engineer for an investigation to evaluate the limits at a closed landfill. This included review of historic aerial photos to evaluate the historic limits of the landfill margins. A test pit investigation was used to refine the limits of landfill where the air photos did not provide adequate detail.

Final Cover Slope Stability Analyses, BKK Landfill, West Covina, California: Slope stability analyses included evaluation of final cover design options and provision of recommendations for construction.

Phase II Refuse Disposal Cell Development, Las Pulgas Landfill, Camp Pendleton, California. Dr. Skopek acted as the geotechnical engineer of record for characterization and slope stability analyses for temporary and final configurations of the proposed 17-acre Phase II Las Pulgas Landfill Expansion and developed recommendations for design and construction of the slope and base liner system, toe drain, and grading, and prepared CQA plan for the liner system construction.

CONSTRUCTION QUALITY ASSURANCE (CQA)

Landfill Expansion CQA, Phase 2A Billy Wright Landfill, 4 acres of composite liner near Los Banos in San Joaquin Valley. The responsibilities as the CQA Engineer included oversight of monitoring and testing of earthwork for the landfill base grading, perimeter access road, and installation of the base and slope liner of the landfill cell. Specifically, the CQA activities included monitoring, documentation and testing of the earthwork extent and compaction, LCRS acceptance and placement verification, and geosynthetics conformance and installation testing and certification, coordination, review, and submittal of geosynthetic and fill materials documentation to ensure compliance with the project specifications, and issuance of a Geotechnical and Geosynthetic CQA Monitoring Report

CQA for Phase II Expansion of Las Expansion of Las Pulgas Landfill, MCB Camp Pendleton, California. As the CQA Engineer the responsibilities included design, oversight and regulatory reporting of the test pad with Sealed Double-Ring Infiltrometer (SDRI), and oversight of field testing and CQA support during the construction including compaction, and BAT and Shelby tube

hydraulic conductivity testing. CQA coordination, oversight, review and reporting also included conformance testing and installation observation of the HDPE geomembrane liner.

Landfill Final Composite Cover CQA, Cal Compact Landfill, Carson, California. The final cover consists of prescriptive clay barrier at the perimeter slopes and geomembrane on the top deck. The responsibilities as the CQA Engineer included oversight of monitoring and testing and submittals for the construction of 3 distinct engineered fill layers including a foundation layer, a low-permeability (≤ 1×10-6 cm/sec) layer, and a cover soil/vegetative layer. For areas where compaction of barrier clay was impractical, an innovative equivalent substitute of Bentonite-Cement-Sand (BCS) slurry was designed having the same hydraulic performance as compacted clay while not requiring difficult compaction effort. For the composite final cover on the top deck the CQA included all components of the composite final cover including placement of the engineered fill soils preparation of the foundation subgrade, geomembrane placement, conformance, weld and non-destructive and destructive seam testing, and repairs.

FLOOD CONTROL

Berryessa Channel and Levee Improvements, Milpitas, California (2014-2017): Dr. Skopek served as Principal Geotechnical for the design of improvements to the Berryessa Channel in Milpitas, California. The project consisted of the improvements to the Berryessa Creek Channel between Calaveras Boulevard (Station 86+00) and I-680 (Station 193+00). In general, the channel improvements consisted of widening the existing channel, installing slope protection on the channel slopes, construction of floodwall in one area and levee embankment in another area to maintain flows in the channel. The project also included replacement of an existing Union Pacific Railroad (UPRR) trestle with a reinforced concrete box culvert. Geotechnical evaluation of construction aspects of the project were also performed, including assessment of excavatability of alluvial soils, stability of temporary construction slopes, requirements for trench shoring systems, and temporary dewatering requirements. Steady state seepage models were developed in order to evaluate the effects of seepage on the proposed floodwalls and levee embankments. Slope stability analyses were performed to evaluate the performance of floodwall and levees under existing conditions, flood conditions, rapid drawdown, and earthquake loading.

Storm Water Infiltration and Storage Facility – Bolivar Park, Lakewood, California Santa Monica Clean Beaches Initiative (2015-2018). Dr. Skopek performed a geotechnical investigation, infiltration study, and provided construction inspection services for the storm water storage and infiltration facility constructed at Bolivar Park in the City of Lakewood, California. The invert of the proposed infiltration facilities was at a depth between 14 to 18 feet below the current grade. The facility consists of underground storage chambers which allow percolation of storm water, diverted from the adjacent Del Amo flood control channel, into the subgrade. The project also included drilling, logging, and sampling of 5 hollow stem auger exploratory borings and infiltration tests in 3 percolation borings.

SEISMIC RISK ASSESSMENT

Bridge Seismic Retrofits. The projects included retrofit of 4 bridges across Kern River, an overpass bridge and a pedestrian bridge in Bakersfield, 8 bridges in Orange and Los Angeles Counties and consisted of evaluation of foundation capacities under lateral and axial loading, liquefaction potential assessment, and site seismic response spectra analyses.

Seismic Hazard and Liquefaction Potential Studies. Dr. Skopek has been involved in numerous liquefaction and seismic studies in California and Canada. His experience includes seismic site assessments, fault studies, liquefaction potential and liquefaction-induced settlement evaluations. Engineering analyses for these projects included evaluation of liquefaction potential, determinations of probabilistic and deterministic seismic design events, and development of site-specific response spectra. The studies include extensive literature review, collection, interpretation and evaluation of field and laboratory data and preparation of reports for regulatory submittal to Caltrans, County of Los Angeles, City of Los Angeles, Regional Water Quality Control Boards, and various local agencies.

Earthquake Fault Study for Home Depot in Yucaipa. This study for a proposed Home Depot development site located within the Earthquake Fault Zone (Alquist-Priolo Special Study Zone) included an extensive literature review, field exploration program and presentation of observations and interpretations to regulatory agencies for project approval.

RECREATION FACILITIES

Caruthers Park – City of Bellflower. Lead Engineer in charge of the infiltration testing using large diameter boreholes and geotechnical exploration for the design of large stormwater infiltration and storage underground vaults, including foundation design for diversion structures, pump stations, and pretreatment units.

Bolivar Park — City of Lakewood. Lead Engineer in charge of the geotechnical design of an underground stormwater infiltration and storage facility using precast reinforced concrete units with their associated hydraulic structures and conveyance systems. Provided recommendations for the design of the shoring system for the deep excavations, monitored construction and performance of the shoring system using solider piles and steel plate and performed infiltration testing required for the design of the infiltration facilities.

Mayfair Park – City of Lakewood. Lead Engineer in charge of the evaluation of the infiltration characteristics of the subsurface materials and the geotechnical design of stormwater storage system. In addition, a field feasibility study was conducted to study the possibility of using injection wells at the site.

Carriage Crest Park – City of Carson. Lead Engineer in charge of the geotechnical design of a large underground stormwater storage tank, shoring design, and pipeline conveyance design.

Alondra Park Project – Redondo Beach. Lead Engineer in charge of the geotechnical design of an underground stormwater and infiltration facility at the site and a feasibility assessment of using injection well.

4.1 ADDITIONAL DESIGN DRAWINGS



CITY OF SAN DIEGO NORTH MIRAMAR LANDFILL

MIRAMAR GREENERY CONCEPTUAL PLANS ORGANICS PROCESSING FACILITY **APRIL 2022**

INDEX OF SHEETS

C-001 COVER SHEET

C-100 SITE PLAN AND SHEET INDEX MAP

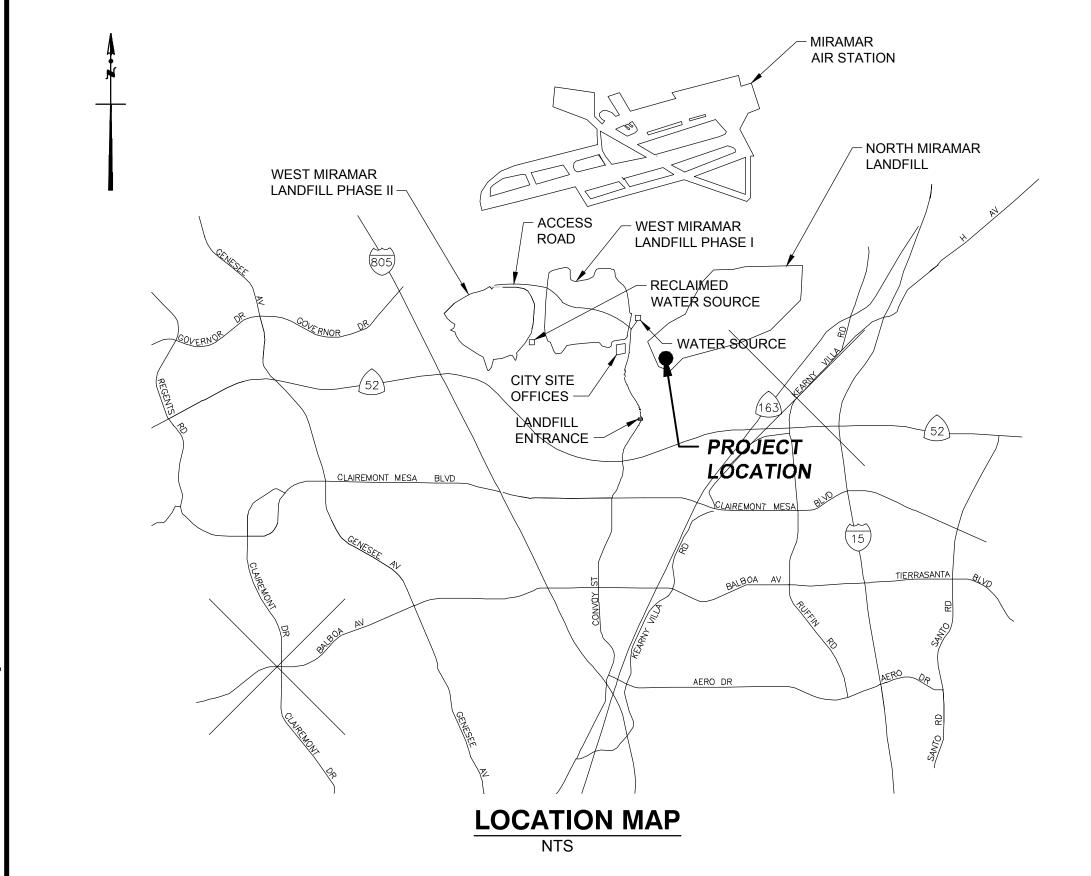
C-101 INTAKE FACILITY PLAN

C-102 COMPOST PAD & BASIN GRADING PLAN

C-501 DETAILS C-502 DETAILS

A-202 EXTERIOR ELEVATIONS

A-901 3D VIEWS

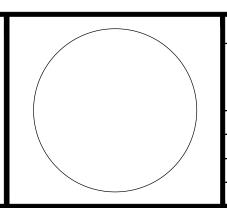


REVISION DESCRIPTION

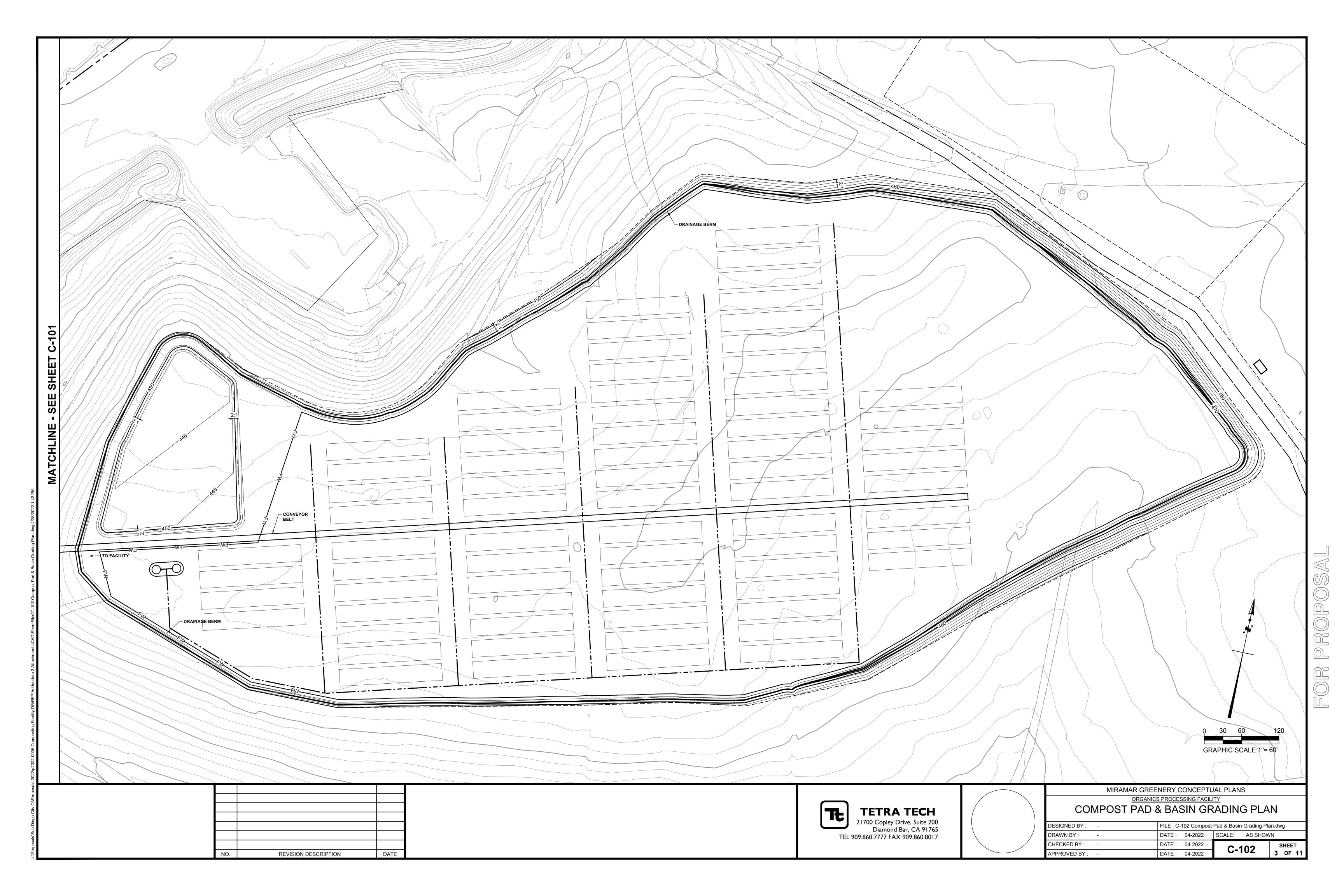
DATE

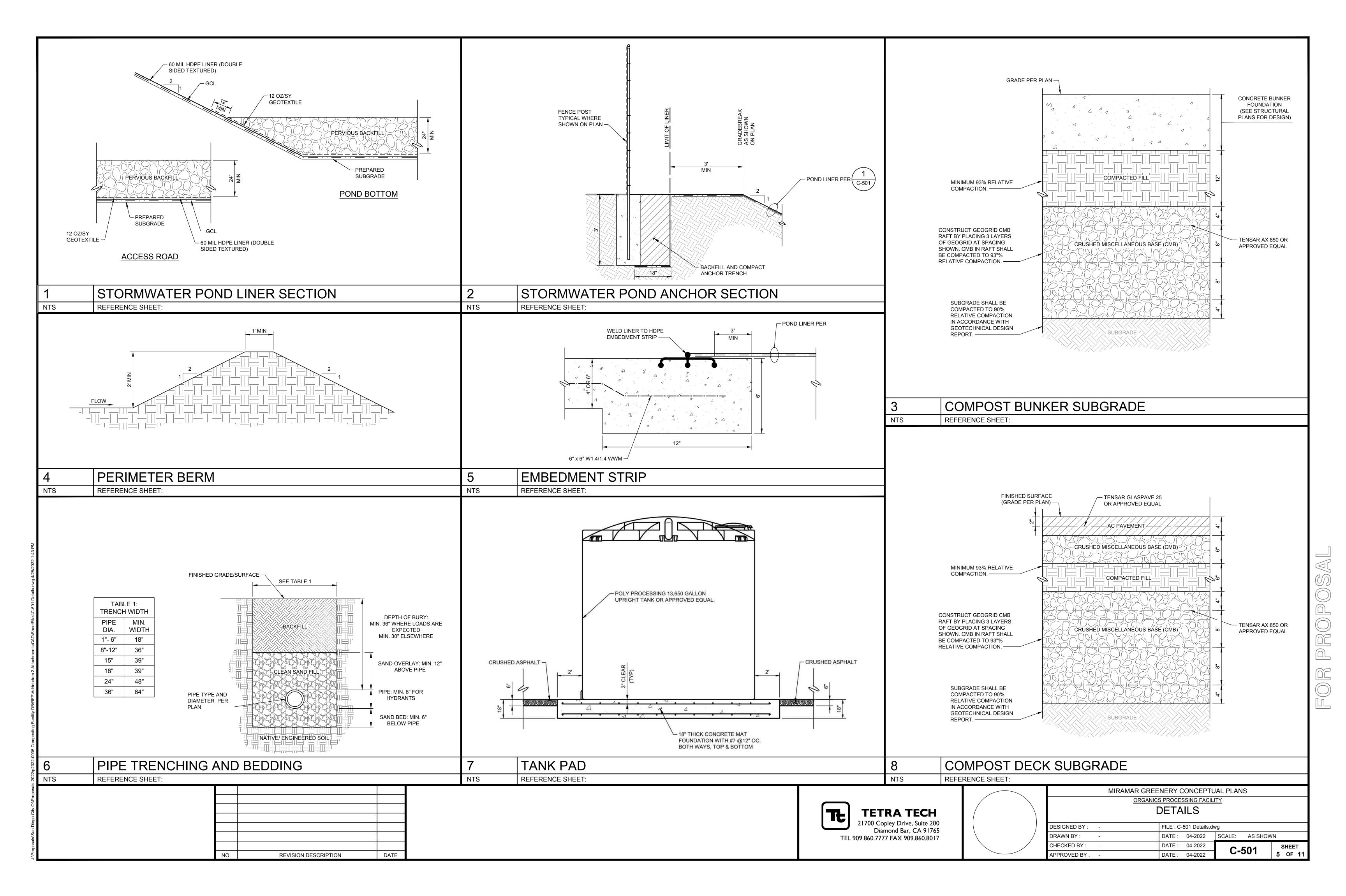


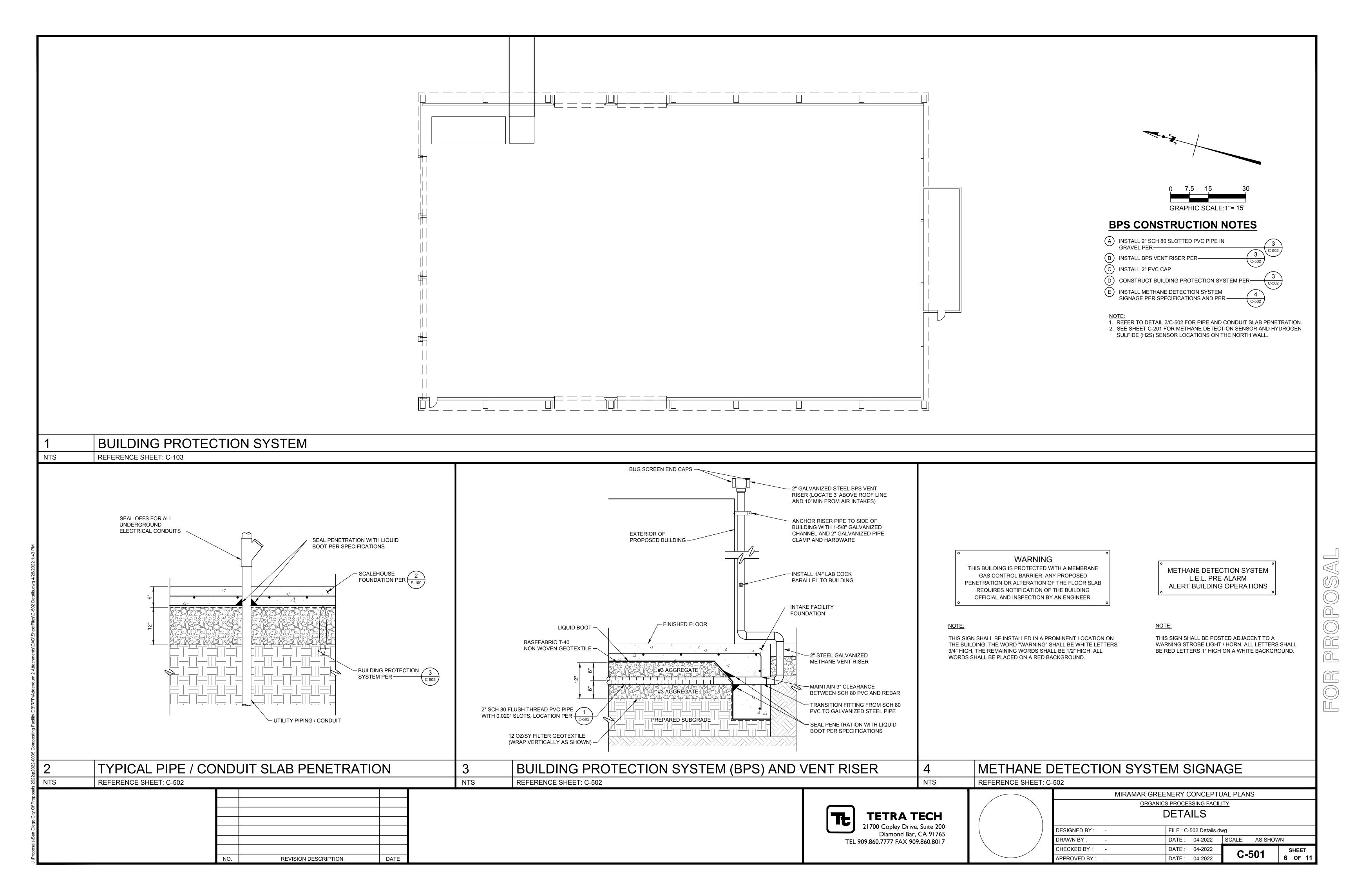


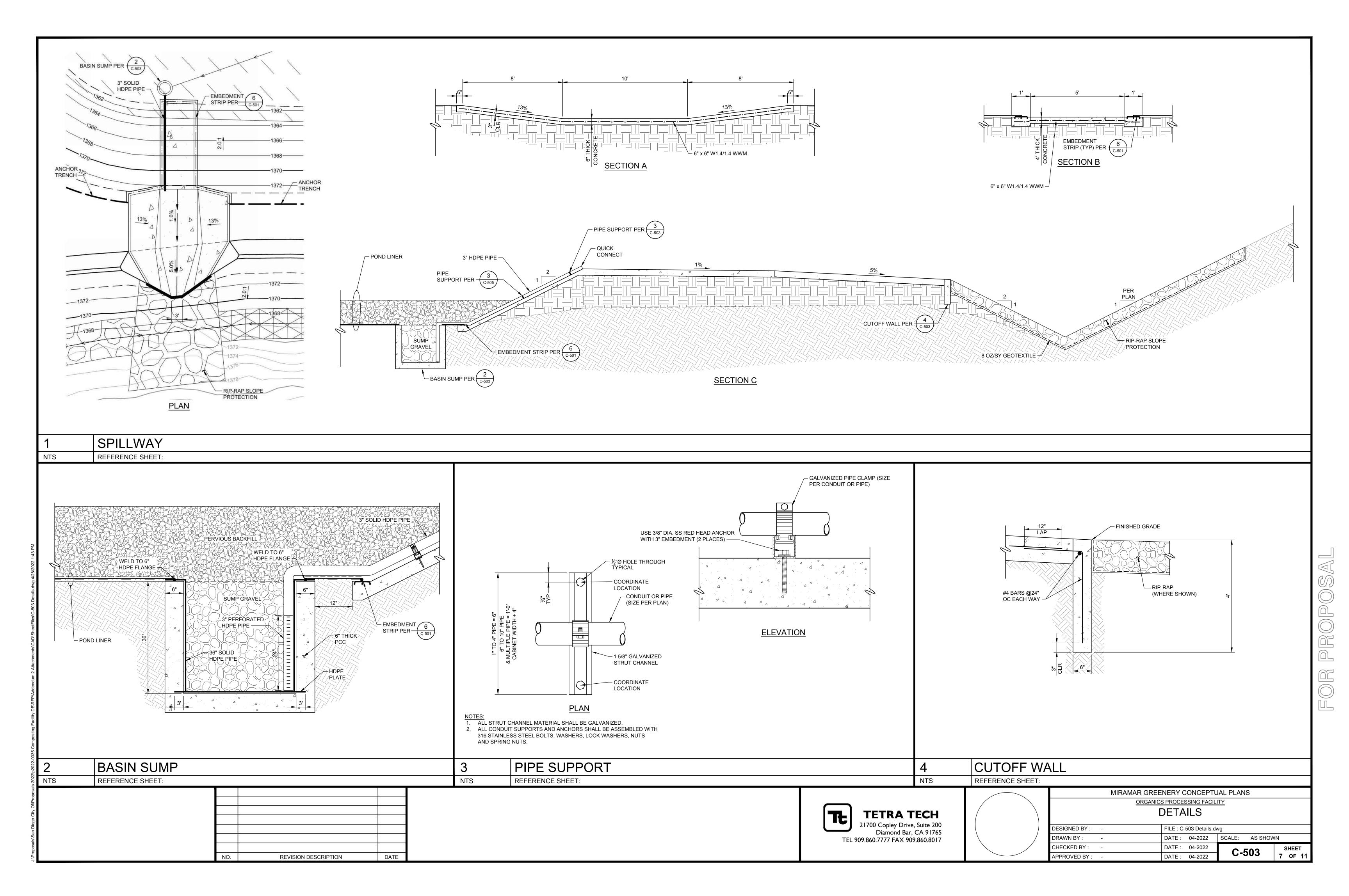


	MIRAMAR GREE	NERY CONCEPTU	JAL PLANS	
	ORGANIC	S PROCESSING FACIL	<u>ITY</u>	
	CO,	VER SHEET		
DESIGNED BY:	-	FILE : C-001 Cover Sh	eet.dwg	
DRAWN BY :	-	DATE: 04-2022	SCALE: AS SHOW	٧N
CHECKED BY:	-	DATE: 04-2022	C-001	SHEET
APPROVED BY:		DATE: 04-2022	J 6-001	1 OF











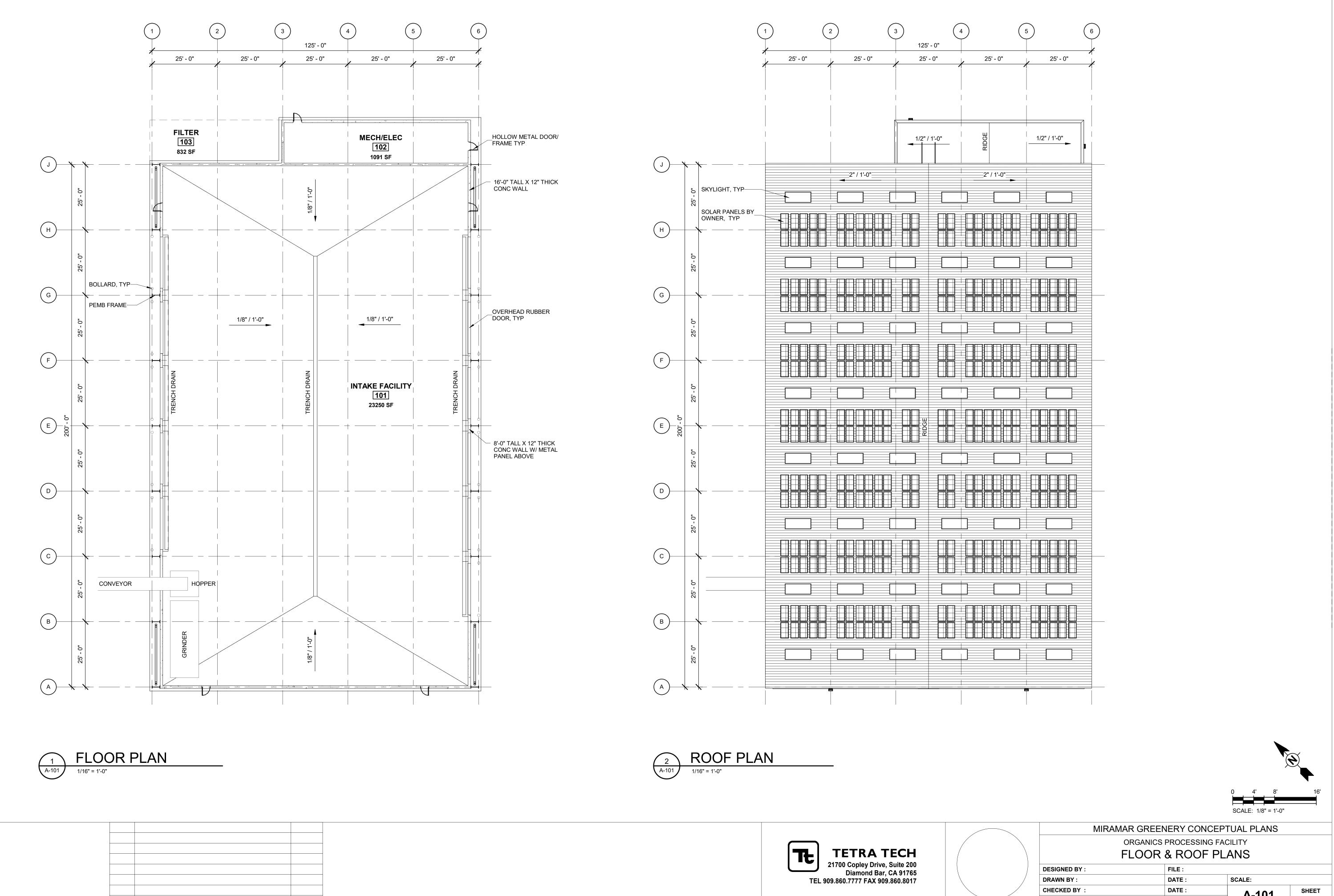
CHECKED BY

APPROVED BY :

DATE:

DATE:

A-101



NO.

REVISION DESCRIPTION.

DATE

DATE

REVISION DESCRIPTION.

NO.

A-202

DATE :

APPROVED BY

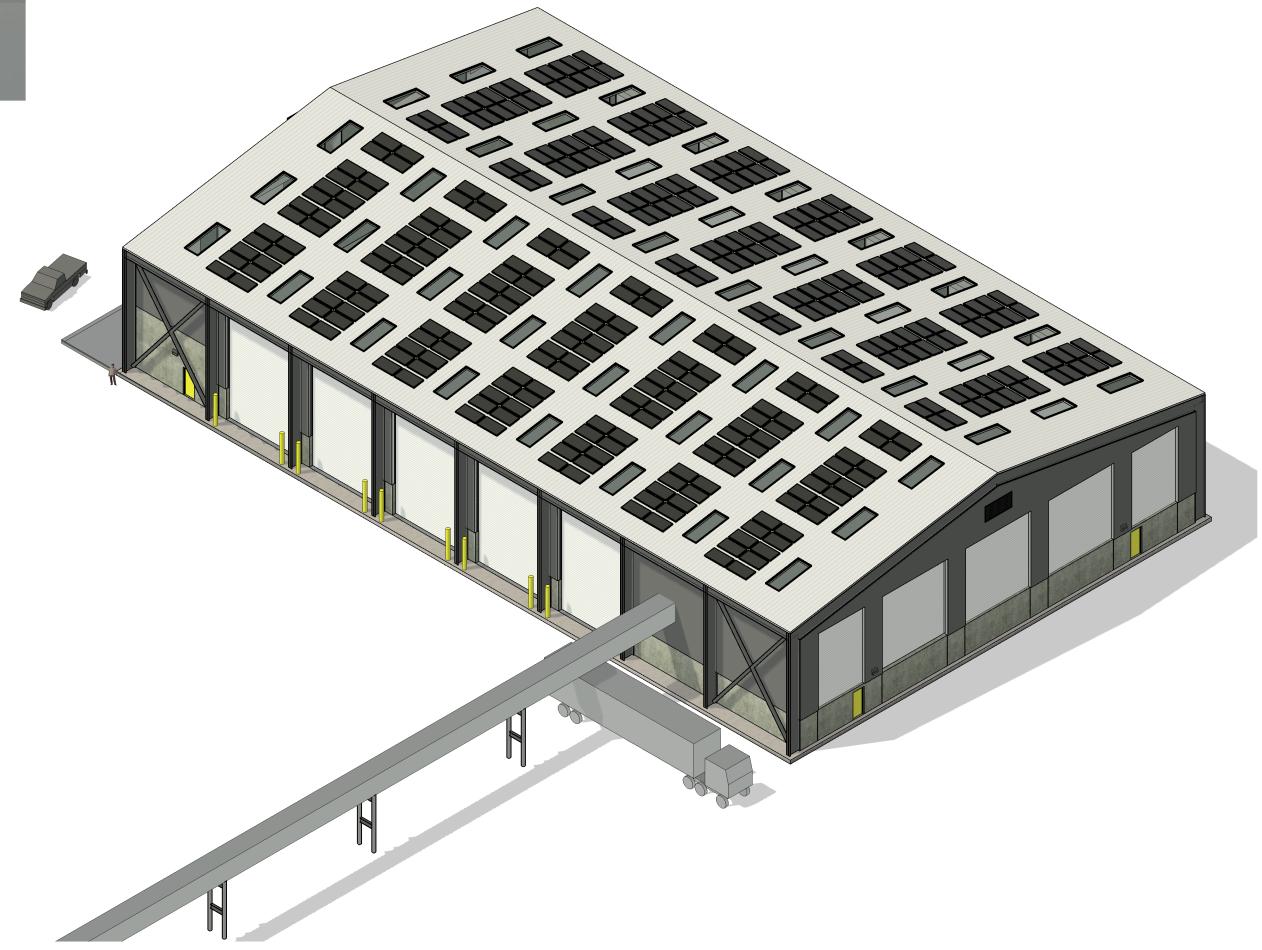


SHEET

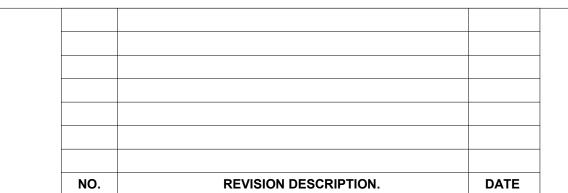


VIEW FROM SOUTHEAST

SCALE: 12" = 1'-0"



AXONOMETRIC SCALE:





MIRAMAR GREENERY CONCEPTUAL PLANS

ORGANICS PROCESSING FACILITY

3D VIEWS

SIGNED BY:	FILE:							
RAWN BY :	DATE:	SCALE:						
HECKED BY :	DATE:	A-901						
PPROVED BY:	DATE :	A-901						

5.1 and 5.2



Equal Opportunity Contracting Program:

Work Force Report (EOC Form BB05)

Forms AA15, AA20, AA30

Good Faith Effort Documentation



EQUAL OPPORTUNITY CONTRACTING (EOC)

1200 Third Avenue, Suite 200 · San Diego, CA 92101 Phone: (619) 236-6000 · Fax: (619) 236-5904

WORK FORCE REPORT

The objective of the Equal Employment Opportunity Outreach Program, San Diego Municipal Code Sections 22.3501 through 22.3517, is to ensure that contractors doing business with the City, or receiving funds from the City, do not engage in unlawful discriminatory employment practices prohibited by State and Federal law. Such employment practices include, but are not limited to unlawful discrimination in the following: employment, promotion or upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination, rate of pay or other forms of compensation, and selection for training, including apprenticeship. Contractors are required to provide a completed Work Force Report (WFR).

NO OTHER FORMS WILL BE ACCEPTED CONTRACTOR IDENTIFICATION

	0011111101011								
Type of Contractor: ☐ Construction ☐ Vendor/Supplier ☐ Financial Institution ☐ Lessee/Les									
Name of Company: Sukut Construc	tion, LLC								
ADA/DBA:									
Address (Corporate Headquarters, who									
City: Santa Ana	County: Orange	State: CA	Zip: 92704						
Telephone Number: 714-540-5351		Fax Number: 714-545-2003							
Name of Company CEO: Steven Yu	rosek								
Address(es), phone and fax number(s Address:	of company facilities located	in San Diego County (if different fro	m above):						
City:		State:	Zip:						
Telephone Number:	Fax Number:	Email:							
Type of Business: Heavy Civil Engi The Company has appointed: Conni 2			e A, B, Haz, C-21						
As its Equal Employment Opportunity			isseminate and enforce equal						
employment and affirmative action po		EOO may be contacted at:							
Address: 4010 W. Chandler Avenu		F45 0000	i						
Telephone Number: 714 540-5351	Fax Number: 714-	Email: CZUI	iga@sukut.com						
	☐ One San Diego Co	ounty (or Most Local County)	Work Force - Mandator						
	Branch Work For	ce *							
	☐ Managing Office	Work Force							
	Check the hove above	that applies to this WFR.							
*Submit a separate Work Ford		branches. Combine WFRs if more th	an one branch per county						
		oranicis, dombine wite y more us	an one branch per county.						
I, the undersigned representative of S		(Firm Name)							
Orange	, California	,	that information provided						
(County)		ate)							
herein is true and correct. This docum	nent was executed on this 29	day of April	, 20. 22						
54a		Conni Zuniza	٢						
(Authorized Signature)		(Print Authorized Signat	ure Name) VP, Human Reso						
EOC Work Force Report (rev. 08/2018)	1 of 7		Form Number: BBo5						

WORK FORCE REPORT – Page 2														
NAME OF FIRM: Sukut Constr			(D								ATE: 4	/29/20	22	
	ange C					£1-	4		COUNT		range	m Met	-11	!-
INSTRUCTIONS: For each occup provided. Sum of all totals should time basis. The following groups a	be equa	l to vo	ur total	work f	orce. I	nclude	all thos	e empl	oved by	y your o	ompan	y on ei	ther a f	nns in ull or p
 Black or African-American Hispanic or Latino Asian American Indian or Alaska Definitions of the race and ethnical	a Native		can be	found o	n Page	(6) (7)	Native White Other						ther g	roups
ADMINISTRATION OCCUPATIONAL CATEGORY	(1) Black or African American		(2) Hispanic or Latino		(3) Asian		(4) American Indian/ Nat. Alaskan		(5) Pacific Islander		(6) White		(7) Other Race/ Ethnicity	
	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)
Management & Financial			4		1	1					22	3		
Professional														
A&E, Science, Computer	1		11	1	3	1					25	1	1	
Technical			3		1						5			
Sales			1											
Administrative Support			7	5	1	2					11	13		
Services														
Crafts														
Operative Workers														
Transportation			1								1			
Laborers*														
*Construction laborers and other field	d employ	es are i	not to be	include	d on this	page					I	l		
Totals Each Column	1		27	6	6	4					64	17	1	
Grand Total All Employees		126												
Indicate by Gender and Ethnicity	the Nu	nber o	f Above	Emplo	yees W	ho Are	Disable	d:						
Disabled														
Non-Profit Organizations Only:														
Board of Directors														
Volunteers														
Artists														

WORK FORCE REPORT - Page 3 NAME OF FIRM: Sukut Construction, LLC										DAT	TE: 4/29	1/2022		
OFFICE(S) or BRANCH(ES): Orange Co.	inty (Branch	1)						CO	UNTY:	Oran				
INSTRUCTIONS: For each occupational provided. Sum of all totals should be estime basis. The following groups are to	qual to	your to	tal wor	k force	. Inclu	ide all	those e	mploy	ed by y	ethnic our co	group	o. Tota on eit	l colum her a fu	ins in ro
 Black or African-American Hispanic or Latino Asian American Indian or Alaska Nat Definitions of the race and ethnicity of		es can l	be foun	d on P	(7	6) Wh							ther gr	oups
TRADE OCCUPATIONAL CATEGORY	Bla Afı	(1) ck or rican erican	Hisp	2) panic atino		3) ian	Ame Ind N	4) rican ian/ at. skan	Pac	5) cific nder	1	(6) (7) White Other Race, Ethnicity		Race/
	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)
Brick, Block or Stone Masons														
Carpenters	1		8											
Carpet, Floor & Tile Installers Finishers														
Cement Masons, Concrete Finishers			40								2			
Construction Laborers	7		108				1				30	2	1	
Drywall Installers, Ceiling Tile Inst														
Electricians														
Elevator Installers														
First-Line Supervisors/Managers			26								54			
Glaziers														
Helpers; Construction Trade														
Millwrights														
Misc. Const. Equipment Operators	8	1	70	1	2		3				197	10	1	
Painters, Const. & Maintenance														
Pipelayers, Plumbers, Pipe & Steam Fitters			15								25	2		
Plasterers & Stucco Masons														
Roofers														
Security Guards & Surveillance Officers														
Sheet Metal Workers														
Structural Metal Fabricators & Fitters	7	1	36	1	6		1				43	4	2	
Welding, Soldering & Brazing Workers			12						1		21			
Workers, Extractive Crafts, Miners														
Totals Each Column	23	2	315	2	8		5		1		372	18	4	
Grand Total All Employees		75									-			
Iindicate By Gender and Ethnicity the N	Number	of Abo	ve Emp	loyees	Who A	re Disa	abled:		T		T	I		
Disabled		1	1			1	1		1		1		1	1

											100,100	00		
	-	ach)					-	COLINITIN	_			22		
			rate nu	mber o	f male	s and f						al colur	nns in	
d be equa	l to yo	ur total	work f	orce. In	nclude	all thos	e emple	oyed by	your	compan	y on ei	ther a f	ull or p	
ta Native		can be j	found o	n Page	(6) (7)	White						other gr	roups	
Blac Afri	k or can	Hispa	nic or			Ame	rican n/ Nat.	Pac	ific			Other	(7) Other Race/ Ethnicity	
(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	
		1								2				
ld employe	ees are r	not to be	included	on this	page					-				
		1								2				
	3													
	nber o	f Above	Employ	ees Wl	no Are	Disable	d:			,				
y the Nur					i	1			!	1				
y the Nur														
y the Nur														
	an Diego pational of the equation of the equat	pational categor d be equal to yo are to be included an an are to be included an are to	an Diego (Branch) pational category, indice do be equal to your total are to be included in etc. Tan Ta Native In (1) Black or African American (M) (F) (M) 1 1 1 1 1 1	an Diego (Branch) pational category, indicate nud be equal to your total work for are to be included in ethnic categories can be found of the categories can be categories can b	an Diego (Branch) pational category, indicate number of the deequal to your total work force. It is are to be included in ethnic categories and the state of the deep state o	an Diego (Branch) pational category, indicate number of male die equal to your total work force. Include are to be included in ethnic categories listed and (5) (6) (7) ta Native icity categories can be found on Page 4 (1) Black or African Hispanic or Latino (M) (F) (M) (F) (M) (F) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	an Diego (Branch) pational category, indicate number of males and find be equal to your total work force. Include all those are to be included in ethnic categories listed in column (5) Native (6) White (7) Other incitive categories can be found on Page 4. Comparison of the column of the colum	an Diego (Branch) pational category, indicate number of males and females are to be equal to your total work force. Include all those employers are to be included in ethnic categories listed in columns be are to be included in ethnic categories listed in columns be are to be included in ethnic categories listed in columns be are to be included in ethnic categories listed in columns be are to be included in ethnic categories listed in columns be are to be included all those employers are not to be included on this page.	an Diego (Branch) pational category, indicate number of males and females in eve d be equal to your total work force. Include all those employed by a ret to be included in ethnic categories listed in columns below: an (5) Native Hawaiian or (6) White (7) Other race/ethnicity categories can be found on Page 4 Black or African American (M) (F) (M) (F) (M) (F) (M) (F) (M) (M) (F) (M) (F) (M) (F) (M) (F) (M) (F) (M) and African American (M) (F) (M) (F) (M) (F) (M) and African American (M) (F) (M) (F) (M) (F) (M) (F) (M) Asian Alaskan (M) (F) (M) (F) (M) (F) (M) (F) (M) Asian Alaskan (M) (F) (M) (F) (M) (F) (M) (F) (M) Asian Alaskan (M) (F) (M) (F) (M) (F) (M) (F) (M)	an Diego (Branch) pational category, indicate number of males and females in every ethe deequal to your total work force. Include all those employed by your care to be included in ethnic categories listed in columns below: (5) Native Hawaiian or Pacifican (6) White (7) Other race/ethnicity; not an Native (7) Other race/ethnicity; not Indian/ Nat. Alaskan (M) (F)	an Diego (Branch) pational category, indicate number of males and females in every ethnic group deequal to your total work force. Include all those employed by your compansate to be included in ethnic categories listed in columns below: (5) Native Hawaiian or Pacific Islam (6) White (7) Other race/ethnicity; not falling a Native (7) Other race/ethnicity; not falling (8) Wilte (7) Other race/ethnicity; not falling (9) Asian Indian/Nat. Alaskan (M) (F) (M) (M) (F) (an Diego (Branch) pational category, indicate number of males and females in every ethnic group. Tot deequal to your total work force. Include all those employed by your company on eleare to be included in ethnic categories listed in columns below: (5) Native Hawaiian or Pacific Islander (6) White (7) Other race/ethnicity; not falling into company on elear to be included in ethnic categories listed in columns below: (6) White (7) Other race/ethnicity; not falling into company on elear to be included on Page 4 (8) Native Hawaiian or Pacific Islander (6) White (7) Other race/ethnicity; not falling into company on elear to be included on Page 4 (9) Native Hawaiian or Pacific Islander (6) White Alaskan Indian/ Nat. Alaskan Indian/ Na	an Diego (Branch) pational category, indicate number of males and females in every ethnic group. Total colure do be equal to your total work force. Include all those employed by your company on either a frare to be included in ethnic categories listed in columns below: (5) Native Hawaiian or Pacific Islander (6) White (7) Other race/ethnicity; not falling into other grant and any any and any	

OFFICE(S) or BRANCH(ES): San	Diego (Branch)							co	UNTY:	San E	Diego			
INSTRUCTIONS: For each occupa provided. Sum of all totals should time basis. The following groups	be equal to	your to	tal wor	k force	. Inclu	ide all	those e	mploy	ed by y	ethnic our co	group	. Tota on eit	l colum her a fu	ns in ro
(1) Black or African-American (2) Hispanic or Latino (3) Asian (4) American Indian or Alaska Definitions of the race and ethnic	a Native	es can l	oe found	d on P	(6) Wh	ite		n or Pa				ther gr	oups
TRADE OCCUPATIONAL CATEGORY	Bla Afr	1) ck or ican erican		2) panic atino		3) ian	Ame Ind N	4) rican ian/ at. skan	Pac	5) cific nder	Wh	6) (7) ite Other Race Ethnicity	Race/	
	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)	(M)	(F)
Brick, Block or Stone Masons														
Carpenters														
Carpet, Floor & Tile Installers Finishers														
Cement Masons, Concrete Finish	ners													
Construction Laborers			2								2			
Drywall Installers, Ceiling Tile I	nst													
Electricians														
Elevator Installers														
First-Line Supervisors/Manager	s		2								4			
Glaziers														
Helpers; Construction Trade														
Millwrights														
Misc. Const. Equipment Operato	rs		1								8			
Painters, Const. & Maintenance														
Pipelayers, Plumbers, Pipe & Ste Fitters	eam													
Plasterers & Stucco Masons														
Roofers														
Security Guards & Surveillance Officers														
Sheet Metal Workers														
Structural Metal Fabricators & Fitters	1	1	4											
Welding, Soldering & Brazing Workers			1								2			
Workers, Extractive Crafts, Mine	ers													
Totals Each Column	1	1	10								16			
Grand Total All Employees		28												
Iindicate By Gender and Ethnicity	the Number	of Abo	ve Emp	loyees	Who A	re Disa	bled:			1				
Disabled														

WORK FORCE REPORT - Page 3
NAME OF FIRM: Sukut Construction, LLC

DATE: 4/29/2022

DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Design-Builder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder shall also list below the portion of the work which will be done by each Subcontractor under this contract. The Design-Builder shall list only one Subcontractor for each portion of the Work. The **PERCENT VALUE** of the total Bid to be performed shall be stated for all Subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Design-Builders'own forces. The Design-Builder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	PERCENT VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Hankins Construction Inc. Address: 1314 Walnut St. City: Ramona State: CA Zip: 92065 Phone: 760.789.4343	Constructor	AC PAVE	3.3%	ELBE	City of San Diego	
Name: Rancho Land Co. Address: 406 16th St. Suite 102 City: Ramona State: CA Zip: 92065 Phone: 760.788.1530	Constructor	Survey	.10%	SLBE	City of San Diego	
Name In-Line Fence & Railing Co. Inc Address P.O. Box 2637 City: Ramona State: CA Zip: 92065 Phone: 760.789.0282	Constructor	Fence	.63%	SLBE	City of San Diego	

As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

Form Title: DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

Form Number: AA15

DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

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NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	PERCENT VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Accent Engineering & Construction Address: 10679 Westview Pkwy City: San Diego State: CA Zip: 92126 Phone: 619.790.4503	Constructor	Concrete	9.25%	ELBE	City of San Diego	
Name: Suffolk Construction Address: 615 Murray Canyon RD Suite 1000 City: San Diego State: CA Zip: 92108 Phone: 619.906.2871	Constructor	Electrical	3.3%			
Name: Cosco Fire Protection Address: 4990 Greencraig Lane City: San DiegoState: CA Zip: 92123 Phone: 858.444.2000	Constructor	Fire Suppression	.11%			

As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

Form Title: DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

Form Number: AA15

DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

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NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	PERCENT VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: Amber Steel Co. Address: 312 S. Willow Ave City: Rialto State: CA Zip: 92376 Phone: 909.874.2213	Constructor	Rebar	2.5%			
Name: Del La Fuente Construction, Inc. Address: 22W 35th St. Suite 207 City: National City State: CA Zip: 91950 Phone: 619.512.5505	Constructor	Building	2.7%			
Name: Tetra Tech BAS Address 21700 Copley Drive, Suite 200 City: Diamonds Bar CA Zip: 91765 Phone: 909.860.7777	Designer	Design	5.0%			

① As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

Form Title: DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

Form Number: AA15

DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Design-Builder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder shall also list below the portion of the work which will be done by each Subcontractor under this contract. The Design-Builder shall list only one Subcontractor for each portion of the Work. The **PERCENT VALUE** of the total Bid to be performed shall be stated for all Subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Design-Builders'own forces. The Design-Builder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	PERCENT VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name: K Company Address: 1314 Darby St. City: Spring Valley State: CA Zip: 91977 Phone: 760.525.8416	Constructor	Trucking	2.5%	ELBE	City of San Diego	
Name: GMAT Inc Address: 12401 South LA Cadena Dr City: Colton State: CA Zip: 92324 Phone: 909.783.3131	Constructor	Overhead Door	1.4%	DVBE	DGS	
Name: Address: City: State: Zip: Phone:						

As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

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Form Number: AA15

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NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	PERCENT VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name:						
Address: State:						
City: State:						
Zip: Phone:						
Name:						
Address:						
City: State:						
Zip: Phone:						
Name:						
Address:						
City: State:						
Zip: Phone:						
① As appropriate, Design-Builder shall id ELBE):	entify Subcontractor a	s one of the follow	wing and shall includ	e a valid proof of certific	cation (except f	or OBE, SLBE and
Certified Minority Business Enterprise	-		Certified Woman Busines			WBE
Certified Disadvantaged Business Enterpri			Certified Disabled Veteral			DVBE
Other Business Enterprise Certified Small Local Business Enterprise			Certified Emerging Local mall Disadvantaged Bus			ELBE SDB
Woman-Owned Small Business			IUBZone Business		HU	JBZone
Service-Disabled Veteran Owned Small Bu	usiness S	SDVOSB				
② As appropriate, Design-Builder shall ind	icate if Subcontractor is	s certified by:				
City of San Diego		CITY S	tate of California Depart	ment of Transportation		ΓRANS
California Public Utilities Commission State of California's Department of Genera	-	CPUC S CADoGS C	an Diego Regional Mino City of Los Angeles	rity Supplier Diversity Coun	icii SF	RMSDC LA
State of California			J.S. Small Business Adm	inistration		SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

Form Title: DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

Form Number: AA15

DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

In accordance with the requirements provided in the "Subletting and Subcontracting Fair Practices Act", Division 2, Part 1, Chapter 4 of the Public Contract Code, the Design-Builder shall list below the name and address of each Subcontractor who will perform work, labor, render services or specially fabricates and installs a portion [type] of the work or improvement, in an amount in excess of 0.5% of the Design-Builder's total Bid. The Design-Builder shall also list below the portion of the work which will be done by each Subcontractor under this contract. The Design-Builder shall list only one Subcontractor for each portion of the Work. The **PERCENT VALUE** of the total Bid to be performed shall be stated for all Subcontractors listed. Failure to comply with this requirement shall result in the Bid being rejected as non-responsive and ineligible for award. The Design-Builder's attention is directed to the Special Provisions - General; Paragraph 2-3 Subcontracts, which stipulates the percent of the Work to be performed with the Design-Builders'own forces. The Design-Builder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB, WoSB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	PERCENT VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Name:						
Address: State:						
City: State:						
Zip: Phone:						
Name:						
Address:						
City: State:						
Zip: Phone:						
Name:						
Address:						
City: State:						
Zip: Phone:						
① As appropriate, Design-Builder shall id ELBE):	entify Subcontractor a	s one of the follow	wing and shall includ	e a valid proof of certific	cation (except f	or OBE, SLBE and
Certified Minority Business Enterprise	-		Certified Woman Busines			WBE
Certified Disadvantaged Business Enterpri			Certified Disabled Veteral			DVBE
Other Business Enterprise Certified Small Local Business Enterprise			Certified Emerging Local mall Disadvantaged Bus			ELBE SDB
Woman-Owned Small Business			IUBZone Business		HU	JBZone
Service-Disabled Veteran Owned Small Bu	usiness S	SDVOSB				
② As appropriate, Design-Builder shall ind	icate if Subcontractor is	s certified by:				
City of San Diego		CITY S	tate of California Depart	ment of Transportation		ΓRANS
California Public Utilities Commission State of California's Department of Genera	-	CPUC S CADoGS C	an Diego Regional Mino City of Los Angeles	rity Supplier Diversity Coun	icii SF	RMSDC LA
State of California			J.S. Small Business Adm	inistration		SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

Form Title: DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

Form Number: AA15



Small Local Business Enterprise (SLBE) Program Certification

Hankins Construction, Inc.

Emerging Local Business Enterprise (ELBE)

General Construction

(NAICS: 237310, 238910, 238990)

Certification Number: 17HC1426

Effective: 7/19/2021 - 7/19/2023



Small Local Business Enterprise (SLBE) Program Certification

Rancho Land Co. DBA Rancho Land Services
Small Local Business Enterprise (SLBE)
Professional Services

(NAICS: 541990)

Certification Number: 17RL1612

Effective: 1/10/2022 - 1/10/2024





Small Local Business Enterprise (SLBE) Program Certification

In-Line Fence & Railing Company, Inc. DBA In-Line Construction, Inc.

Small Local Business Enterprise (SLBE)

Specialty Construction

(NAICS: 238990, 332323, 237310)

Certification Number: 10IN0031

Effective: 7/19/2021 - 7/19/2023



Small Local Business Enterprise (SLBE) Program Certification

Accent Engineering and Construction DBA Accent

Construction

Emerging Local Business Enterprise (ELBE)

General Construction

(NAICS: 236220, 238110, 238210, 238220)

Certification Number: 13AE0934

Effective: 8/28/2020 - 8/28/2022



Small Local Business Enterprise (SLBE) Program Certification

K Company Emerging Local Business Enterprise (ELBE) General Services

(NAICS: 484220)

Certification Number: 11KC0261 *Effective: 3/11/2022 - 3/11/2024*



Office of Small Business & DVBE Services

Certification ID: 1031299

Legal Business Name:

GMATINC

Doing Business As (DBA) Name 1:

INLAND OVERHEAD DOOR CO

Doing Business As (DBA) Name 2:

Address:

12401 LA CADENA DR

COLTON

CA 92324-3687

Email Address:

ryan@iohd.com

Business Web Page:

business web i age.

www.inlandoverheaddoor.com

Business Phone Number:

909.783.3131

Business Fax Number:

909.783.3478

Business Types:

Construction, Service

Certification Type	Status	From	То	
DVBE	Approved	03/03/2022	03/31/2024	
SB(Micro)	Approved	02/09/2022	02/29/2024	

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED! $-LOG\ IN\ at\ \underline{CaleProcure.CA.GOV}$

Questions?

Email: OSDSHELP@DGS.CA.GOV

Call OSDS Main Number: 916-375-4940

707 3rd Street, 1-400, West Sacramento, CA 95605

DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY ADDITIVE/DEDUCTIVE ALTERNATE

(USE ONLY WHEN ADDITIVE ALTERNATES ARE REQUIRED)

The Design-Builder shall list all Subcontractors described in the Design-Builder's Base Bid whose percentage of work will increase or decrease if alternates are selected for award. Design-Builder shall also list additional Subcontractors not described in the Design-Builder's Base Bid who, as a result of the alternates, will perform work or labor, or render services, or specially fabricate and install a portion [type] of work or improvements in an amount in excess of 0.5%. Failure to comply with this requirement shall result in the bid being rejected as non-responsive and ineligible for award. The Design-Builder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB WoSB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

ADDITIVE/ DEDUCTIVE ALTERNATE	NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	PERCENT VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB①	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Alt 2	Name: Accent Engineering & Constructio Address 0679 Westview Pkwy City: San Diego State:CA Zip: 92126 Phone 619.790.4503	n Constructor	Concrete		ELBE	City of San Die	go
Alt 2	Name: Amber Steel Co. Address: 312 S. Willow Ave City: Rialto State A Zip: 92376 Phone: 909.874.2213	Constructor	Rebar				
Alt 1	Name: Tetra Tech BAS Addres 21700 Copley Drive, Suite 200 City: Diamond Barte: CA Zip: 91765 Phone 909.860.7777	Designer	Design				

① As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

	-		
City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

Form Title: DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

(Rev. May 2011)

ADDITIVE/DEDUCTIVE ALTERNATE

Form Number: AA20

DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY ADDITIVE/DEDUCTIVE ALTERNATE

(USE ONLY WHEN ADDITIVE ALTERNATES ARE REQUIRED)

The Design-Builder shall list all Subcontractors described in the Design-Builder's Base Bid whose percentage of work will increase or decrease if alternates are selected for award. Design-Builder shall also list additional Subcontractors not described in the Design-Builder's Base Bid who, as a result of the alternates, will perform work or labor, or render services, or specially fabricate and install a portion [type] of work or improvements in an amount in excess of 0.5%. Failure to comply with this requirement shall result in the bid being rejected as non-responsive and ineligible for award. The Design-Builder shall list all SLBE, ELBE, DBE, DVBE, MBE, WBE, OBE, SDB WoSB, HUBZone, and SDVOSB Subcontractors that Design-Builder are seeking recognition towards achieving any mandatory, voluntary, or both subcontracting participation percentages.

ADDITIVE/ DEDUCTIVE ALTERNATE	NAME, ADDRESS AND TELEPHONE NUMBER OF SUBCONTRACTOR	CONSTRUCTOR OR DESIGNER	TYPE OF WORK	PERCENT VALUE OF SUBCONTRACT	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED ②	CHECK IF JOINT VENTURE PARTNERSHIP
Alt 2	Name: Suffolk Construction Address 615 Murray Canyon RD Suite 10 City: San Diego State CA Zip: 92108 Phone: 619.906.2871	00 Constructor	Electrical				
	Name:						
	Name:						

① As appropriate, Design-Builder shall identify Subcontractor as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Subcontractor is certified by:

	-		
City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

Form Title: DESIGN-BUILD LIST OF SUBCONTRACTORS TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

(Rev. May 2011)

ADDITIVE/DEDUCTIVE ALTERNATE

Form Number:

AA20

DESIGN-BUILD NAMED EQUIPMENT/MATERIAL SUPPLIER LIST TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

The Design-Builder seeking the recognition of equipment, materials, or supplies obtained from Suppliers towards achieving any mandatory, voluntary, or both subcontracting participation percentages shall submit with the Bid the Named Equipment/Material Supplier List. The Named Equipment/Material Supplier List, at a minimum, should have the name, locations (City) and the **PERCENT VALUE** of the Suppliers. The Design-Builder will be credited up to 60% of the amount to be paid to the Suppliers for such materials/supplies unless vendor manufactures or substantially alters materials/supplies in which case 100% will be credited. The Design-Builder shall indicate (Yes/No) whether listed firm is a supplier or manufacturer. In calculating the subcontractor participation percentages, vendors/suppliers will receive 60% credit of the listed **PERCENT VALUE** for purposes of calculating the subcontractor participation percentages, Suppliers will receive 60% credit. If no indication provided, listed firm will be credited at 60% of the listed **PERCENT VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed **PERCENT VALUE**, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed **PERCENT VALUE**, whereas manufacturers will receive 100% credit.

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	PERCENT VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED②
Name: Semper Fuel LLC Address: 3130 Avenida City: San Diego State: CA Zip: 92106 Phone: 310.600.0330	Fuel	1%	Yes	No	SLBE	City of SD
Name: Poly Tek Address: Po Box 2232 City: Capistrano Beastre: CA Zip: 92624 Phone: 949.445-4293	Geosynthetics	2.5%	Yes	No	DVBE	City of SD
Name: K Company Address: 1314 Darby St. City: Spring Valley (ate: Phone: 760.525.8416)	Aggregates	2%	Yes	No	ELBE	City Of SD

① As appropriate, Design-Builder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Vendor/Supplier is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

Form Title: DESIGN-BUILD NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

Form Number: AA30

DESIGN-BUILD NAMED EQUIPMENT/MATERIAL SUPPLIER LIST TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

The Design-Builder seeking the recognition of equipment, materials, or supplies obtained from Suppliers towards achieving any mandatory, voluntary, or both subcontracting participation percentages shall submit with the Bid the Named Equipment/Material Supplier List. The Named Equipment/Material Supplier List, at a minimum, should have the name, locations (City) and the PERCENT VALUE of the Suppliers. The Design-Builder will be credited up to 60% of the amount to be paid to the Suppliers for such materials/supplies unless vendor manufactures or substantially alters materials/supplies in which case 100% will be credited. The Design-Builder shall indicate (Yes/No) whether listed firm is a supplier or manufacturer. In calculating the subcontractor participation percentages, vendors/suppliers will receive 60% credit of the listed PERCENT VALUE for purposes of calculating the subcontractor participation percentages, Suppliers will receive 60% credit. If no indication provided, listed firm will be credited at 60% of the listed PERCENT VALUE, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed PERCENT VALUE, whereas manufacturers will receive 100% credit. If no indication provided, listed firm will be credited at 60% of the listed PERCENT VALUE for purposes of calculating the subcontractor participation percentages.

NAME, ADDRESS AND TELEPHONE NUMBER OF VENDOR/SUPPLIER	MATERIALS OR SUPPLIES	PERCENT VALUE OF MATERIAL OR SUPPLIES	SUPPLIER (Yes/No)	MANUFACTURER (Yes/No)	MBE, WBE, DBE, DVBE, OBE, ELBE, SLBE, SDB, WoSB, HUBZone, OR SDVOSB®	WHERE CERTIFIED@
Name: Biorem Address:100 Rawson Road Suite 230 City: Victor State: NY Zip: 14564 Phone: 678.697.9722	Bio- Filtration	4%	Yes	No		
Name: West River Conveyor Address: 8936 Dismal River Road City: Oakwood StMA Zip: 24631 Phone276-991-4450	Supplier	1.4%	Yes	No		
Name: Sustainable Generation Address:110 South Poplar Street Suite 400 City: Wilmingto Plate: DE Zip: 19801 Phone: 303-699-1585	Bunker	8.8%		Yes	Yes	

① As appropriate, Design-Builder shall identify Vendor/Supplier as one of the following and shall include a valid proof of certification (except for OBE, SLBE and ELBE):

Certified Minority Business Enterprise	MBE	Certified Woman Business Enterprise	WBE
Certified Disadvantaged Business Enterprise	DBE	Certified Disabled Veteran Business Enterprise	DVBE
Other Business Enterprise	OBE	Certified Emerging Local Business Enterprise	ELBE
Certified Small Local Business Enterprise	SLBE	Small Disadvantaged Business	SDB
Woman-Owned Small Business	WoSB	HUBZone Business	HUBZone
Service-Disabled Veteran Owned Small Business	SDVOSB		

② As appropriate, Design-Builder shall indicate if Vendor/Supplier is certified by:

City of San Diego	CITY	State of California Department of Transportation	CALTRANS
California Public Utilities Commission	CPUC	San Diego Regional Minority Supplier Diversity Council	SRMSDC
State of California's Department of General Services	CADoGS	City of Los Angeles	LA
State of California	CA	U.S. Small Business Administration	SBA

The Design-Builder will not receive any subcontracting participation percentages if the Design-Builder fails to submit the required proof of certification (except for OBE, SLBE and ELBE).

Form Title: DESIGN-BUILD NAMED EQUIPMENT/MATERIAL SUPPLIER LIST

TO BE INCLUDED IN THE TECHNICAL (NON-PRICE) PROPOSAL ONLY

Form Number: AA30

6/23/2020 Supplier Profile

Printed on: 6/23/2020 2:10:48 PM

To verify most current certification status go to: https://www.caleprocure.ca.gov



Office of Small Business & DVBE Services

Certification ID: 1445180

Legal Business Name: SEMPER FUEL LLC

Doing Business As (DBA) Name 1:

SEMPER FUEL

Doing Business As (DBA) Name 2:

Email Address:

ccaquatro@yahoo.com

Business Web Page:

Business Phone Number:

310/600-0330

Business Fax Number:

Address:

3703 Haines Street

Н

CA

San Diego

CA 92109

Business Types:

Non-Manufacturer

Certification Type

Status

From

To

SB(Micro)

Approved

04/22/2020

04/30/2022

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED! -LOG IN at CaleProcure.CA.GOV

> Questions? Email: OSDSHELP@DGS.CA.GOV Call OSDS Main Number: 916-375-4940 707 3rd Street, 1-400, West Sacramento, CA 95605

Printed on: 7/19/2021 7:45:59 AM

To verify most current certification status go to: https://www.caleprocure.ca.gov



Office of Small Business & DVBE Services

Certification ID: 2015113

Legal Business Name: PATRICK MICHAEL SANGI

Doing Business As (DBA) Name 1:

Poly Tek

Doing Business As (DBA) Name 2:

POLY TEK

Address:

PO BOX 2232

CAPISTRANO BEACH

CA 92624

Email Address:

patrick@polyteksupply.com

Business Web Page:

Business Phone Number:

949/445-4293

Business Fax Number:

Business Types:

Non-Manufacturer

Certification Type

Status

From

To

DVBE

Approved

05/17/2021

05/31/2023

SB(Micro)

Approved

05/17/2021

05/31/2023

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED!
-LOG IN at CaleProcure.CA.GOV

Questions?
Email: OSDSHELP@DGS.CA.GOV
Call OSDS Main Number: 916-375-4940
707 3rd Street, 1-400, West Sacramento, CA 95605



Small Local Business Enterprise (SLBE) Program Certification

K Company Emerging Local Business Enterprise (ELBE) General Services

(NAICS: 484220)

Certification Number: 11KC0261 *Effective: 3/11/2022 - 3/11/2024*



Small Local Business (SLBE) Program INSTRUCTIONS FOR BIDDERS COMPLETING THE GOOD FAITH EFFORT SUBMITTAL

The Special Provisions for projects subject to the SLBE Program requires contractors to take affirmative steps to attract and utilize SLBE and ELBE firms.

The information necessary to establish the bidder's adequate Good Faith Efforts (GFE) to meet the mandatory subcontractor participation percentages must include:

A. SLBE-ELBE WRITTEN SOLICITATION REQUIREMENTS

Bidders must solicit SLBE-ELBE firms on the City's approved SLBE-ELBE list. Solicitations for subcontract/vendor work must comply with the following requirements:

- 1. The solicitation must be project specific, dated and include bid number and project name. Solicitations must be made to the SLBE-ELBE firms at least 10 business days prior to bid opening.
 - 1.1. Broadcast solicitation is acceptable.

See A1. List of SLBEs-ELBEs Solicited with Certification / Source Report from City of San Diego dated 3/28/22, Sukut Building Connected Email Invitiations to Bid & Report Listing SLBE-ELBE firms invited.

- 2. Solicitation must state which items or portions of work the bidder is requesting subcontractor/vendor pricing.
 - 2.1. It is the bidder's responsibility to demonstrate that enough work sufficient to meet the SLBE-ELBE goal was made available to SLBE-ELBE firms. The bidder should make as many items of work available as possible to meet the goal, and at a minimum an amount of work equal to the goal. If necessary to reach the goal, the work should include those items normally performed by the bidder with its own forces, supplies and even items with a dollar value below 1/2 of 1% of the total bid. Bidders shall utilize Form AA60 to demonstrate compliance with this requirement and submit the completed form with Good Faith Effort documentation.

See Form AA60.



Small Local Business (SLBE) Program INSTRUCTIONS FOR BIDDERS COMPLETING THE GOOD FAITH EFFORT SUBMITTAL

3. Solicitation must state that plans and specs are available at no cost to interested SLBE-ELBE firms and how to obtain them.

Yes - See A1.1 ITB

4. Solicitations must state that assistance is available from the bidder for SLBE-ELBE subcontractors in obtaining necessary equipment, supplies, or materials.

Yes - See A1.1 ITB

5. Solicitations must state that assistance is available from the bidder for SLBE-ELBE firms in obtaining bonding, lines of credit or insurance.

Yes - See A1.1 ITB

6. Bidder must solicit *ALL* City of San Diego Certified SLBE-ELBE firms who have the NAICS code for the subcontractor/vendor work sought by the general contractor.

Yes

- 6.1. Bidders are not required to contact SLBE-ELBE firms that are noted as "General Contractor Only Does not provide services as a subcontractor" in the PRISM compliance database or on the listing provided on the City website.
- 7. Bidders must provide copies of *ALL* solicitations with one of the following forms of verification *that the solicitations were sent:* a) If mailed: provide copies of the metered envelopes or certified mail receipts b) If faxed: provide copies of the fax transmittal confirmation sheet(s) c) If emailed: provide copies of the email delivery confirmation sheet(s). No credit shall be given for error messages, busy, cancelled, undeliverable, etc.
 - 7.1. When utilizing broadcast method bidder must clearly identify SLBE-ELBE firm on verification documentation submitted with GFE.

Yes - Please note that Sukut outreached via Email and Fax broadcast method to City of San Diego SLBE-ELBE firms from the City's list posted on the website dated DATE.

B. SLBE-ELBE WRITTEN SOLICITATION FOLLOW UP REQUIREMENTS

Bidders must follow-up with all SLBE – ELBE firms that were notified of the subcontracting/vendor opportunities to determine their level of interest



Small Local Business (SLBE) Program INSTRUCTIONS FOR BIDDERS COMPLETING THE GOOD FAITH EFFORT SUBMITTAL

and commitment to bid the project. When following up with the SLBE – ELBE firms, the bidder must do the following:

- 1. Follow up communications must start no less than 5 business days prior to bid opening.
- 2. Bidders must make at least three follow-up telephone calls to each SLBE ELBE firm.
 - 2.1. Bidders are not required to make and/or may stop making follow-up telephone calls once the SLBE-ELBE firm has provided written verification accepting or declining to bid the project. Written verification from SLBE-ELBE firm must be project specific.
 Yes.
 - 2.2. Bidders must provide copy of written verification received from SLBE-ELBE firms with Good Faith Effort documentation.

Yes

2.3. Submit a telephone log, as proof of telephone calls, with the following requirements: project name, name of person making the phone call, name of firm contacted, contact person's name, date of call, time of call, and details of conversation.

Yes.

C. SUBCONTRACT AWARD SUMMARY

Bidders must act in good faith with interested SLBE-ELBE firms and may only reject bids for legitimate business reasons. The bidder must submit the following documentation:

1. A **DETAILED** summary sheet which includes bid item number, scope of work, subcontractor/vendor name, bid amount, certification type, subcontractor/vendor selection and reason for selection / non-selection of all the subcontractors/vendors that responded.

Yes - See Sukut's summary page.

2. Copies of all subcontract/vendor bids received including bids for areas



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of work that were not included in the outreach and bids from both certified and non-certified subcontractors/vendors. If the Bidder decides to Self-Perform a scope of work, the Bidder *MUST* submit a detailed bid to show that the Bidder's price is competitive to the price of the subcontractors/vendors that responded to outreach efforts. All verbal bids *MUST* be substantiated by corresponding written bid from subcontractors/vendors.

Yes - See attached quotes.

D. OUTREACH ASSISTANCE REQUIREMENTS

Written notice of subcontractor/vendor opportunities must be forwarded to local organizations or groups to assist with outreach efforts. When contacting local organizations or groups, the Bidder <u>must do</u> the following:

- 1. Contact a minimum of 5 local organizations or groups to provide assistance in contacting, recruiting and using SLBE-ELBE firms by written notice. For a listing of organizations or groups offering assistance, please visit the City of San Diego Equal Opportunity Contracting home page at http://www.sandiego.gov/eoc/
- 2. Written notice must indicate the date of the notice and name of the local organization or group. Written notices must be forwarded to the organizations or groups at least 10 business days prior to bid opening.
- 3. Written notice must state which items or portions of work the bidder is requesting subcontractor/vendor pricing.
 - 3.1. It is the bidder's responsibility to demonstrate that enough work sufficient to meet the SLBE-ELBE goal was made available to SLBE-ELBE firms. The bidder should make as many items of work available as possible to meet the goal, and at a minimum an amount of work equal to the goal. If necessary to reach the goal, the work should include those items normally performed by the bidder with its own forces, supplies and even items with a dollar value below 1/2 of 1% of the total bid. Bidders shall utilize Form



Small Local Business (SLBE) Program INSTRUCTIONS FOR BIDDERS COMPLETING THE GOOD FAITH EFFORT SUBMITTAL

AA60 to demonstrate compliance with this requirement and submit the completed form with Good Faith Effort documentation.

Yes - See AA From 60 in Section A2.1

4. Written notice must state that plans and specs are available at no cost to interested SLBE-ELBE firms and how to obtain them.

Vec

5. Written notice must state that assistance is available from the bidder for SLBE-ELBE subcontractors/vendor in obtaining necessary equipment, supplies, or materials.

Ves

6. Written notice must state that assistance is available from the bidder for SLBE-ELBE firms in obtaining bonding, lines of credit or insurance.

Ye

7. Bidders must provide copies of *ALL* notices with one of the following forms of verification that the notices were sent: a) If mailed: provide copies of the metered envelopes or certified mail receipts b) If faxed: provide copies of the fax transmittal confirmation sheet(s) c) If emailed: provide copies of the email delivery confirmation sheet(s). No credit shall be given for error messages, busy, cancelled, undeliverable, etc.

Yes



GFE DOCUMENTATION FOR

Organic Processing Facility

Prepared for Sukut Construction, LLC

Good Faith Effort STEP

DOCUMENTATION

A.	SLBE ELBE WRITTEN SOLICITATION
	REQUIREMENTS

Bidders must solicit SLBE-ELBE firms on the City's Approved List

Solicitation must be project specific.....

Solicitation must be made at least 10 business days prior to the bid date

Solicitation must state......

Must solicit ALL City of San Diego Certified SLBE-ELBE firms who have the NAICS code for the subcontractor/vendor work sought by the general contractor

Verification that solicitations were sent

A1_List of SLBEs-ELBEs Solicited With Certification / Source Report

ITB

Sukut Email broadcast

A2-5_ See ITB

NAIC Codes Solicited Solicited Trades Highlighted

A6a_NAIC Codes (for Vendors Solicited)

A6b_Report of Codes and Businesses Solicited

A7a_Bid Date 4-12 Sukut Email broadcast

A7b Bid Date 4-12 Eblast

A7c Bid Date 4-12 Fax

A7d Bid Date 4-29 Eblast

A7e Bid Date 4-29 Fax

A8 Re-Emailed Upon Request

Email: sbe@sbeinc.com • Website: www.sbeinc.com

B. WRITTEN SOLICITATION FOLLOW-UP	
Bidders MUST FOLLOW-UP with all SLBEs ELBEs notified	B1_Telephone Follow-up Script B2_Follow-up Telephone Log
Must start no less than 5 business days prior to the bid date	Follow-up started on 04/05/2022
Must make at least three follow-up telephone calls to each SLBE-ELBE firm. Bidder may stop making upon written verification of accepting or declining	B3_Recall 1 Telephone Log B4_Recall 2 Telephone Log B5_Written verifications B6_Not Interested Summary B7_Not Interested Detail B8_Final Disposition After 3 Telephone Follow-up Calls
C. SUBCONTRACT AWARD SUMMARY	C1_Detail Summary Sheet of Bids Received
	C2_Copies of all Bids Received
D. OUTREACH ASSISTANCE	
Written notice of subcontractor/vendor opportunities must be forwarded to local organizations or groups to assist with outreach efforts	
Bidders must	D1_List of local organizations contacted
Contact a minimum of 5 local organizations or groups	D2_Listing of San Diego Organizations Offering Assistance (ALL contacted)
For a listing visit	D3 Letter and ITB
	_
Written notice	D4_Notice forwarded 03-29-2022
must be forwarded at least 10 business days prior to bid opening date	D5_Fax Reports - Business Centers & Organizations
Verification of forwarding	D6_Eblast Detail Report – Business Centers & Organizations
	D7_Agencies Follow-Up Call Results

E SBA SubNet on 03-29-2022 ADDITIONAL F Asian Inc. (MBDC Manager) on 03-29-2022 **Posting Opportunity** G1 Small Business Exchange **Advertising Opportunity** 03-31-2022 to 04-06-2022 04-07-2022 to 04-13-2022 04-14-2022 to 04-20-2022 04-21-2022 to 04-27-2022 G2 SBE Today 04-01-2022 04-04-2022 04-08-2022 04-11-2022 04-15-2022 04-18-2022 04-22-2022 04-25-2022 G3 www.sbeinc.com 03 - 29 - 2022 - 04 - 29 - 2022

Email: sbe@sbeinc.com • Website: www.sbeinc.com

A1. List of SLBEs-ELBEs Solicited With Certification / Source Report

Company	Address Line 1	Address Line 2	City	St	Zip	Work Item	Type CRT=Certification SRC=Source	Code	Code Description
Accent Engineering And Constru	10679 WESTVIEW PKWY 2ND FLR		San Diego	CA	92126		CRT	CI-SD_ELBE	City of San Diego ELBE
	10679 WESTVIEW PKWY 2ND FLR		San Diego	CA	92126		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Alvarez and Shaw Inc	10001 Maine Ave		Lakeside	CA	92040	238190 OTHER FOUNDATION STRUCTURE &	CRT	CI-SD_ELBE	City of San Diego ELBE
	10001 Maine Ave		Lakeside	CA	92040		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Ambrit Services Inc	802 DENSIE LN		El Cajon	CA	92020		CRT	CI-SD_ELBE	City of San Diego ELBE
	802 DENSIE LN		El Cajon	CA	92020		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Apex Constructors	930 BOARDWALK	SUITE H	San Marcos	CA	92078		CRT	CI-SD_SLBE	City of San Diego SLBE
	930 BOARDWALK	SUITE H	San Marcos	CA	92078		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
AB HASHMI INC	13066 DEER CANYON CT		San Diego	CA	92131		CRT	CI-SD_ELBE	City of San Diego ELBE
ADDA Daniant Management	13066 DEER CANYON CT		San Diego	CA	92131		SRC	DMO-4442 CI-SD_ELBE	Certified SLBEs ELBEs Solicited from slbeapprovednaics
ABBA Project Management	13053 Candela Pl 13053 Candela Pl		San Diego San Diego	CA CA	92130		CRT SRC	DMO-4442	City of San Diego ELBE Certified SLBEs ELBEs Solicited from slbeapprovednaics
ACCURATE ASPHALT & CONCRETE IN	946 Donax Ave #277		Imperial Beach	CA	91933		CRT	CI-SD ELBE	City of San Diego ELBE
ACCORATE ASITIAET & CONCRETE IN	946 Donax Ave #277		Imperial Beach	CA	91933		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
ACME SAFETY & SUPPLY CORP	1616 West Ave		National City	CA	91950		CRT	CI-SD_SLBE	City of San Diego SLBE
Active Still Ell a Soll Ell Coll	1616 West Ave		National City	CA			SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
AHRENS MECHANICAL	5959 MISSION GORGE RD #204		San Diego	CA	92120		CRT	CI-SD_SLBE	City of San Diego SLBE
	5959 MISSION GORGE RD #204		San Diego	CA	92120		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
AXL Group INC	P.O. Box 235258		Encinitas	CA	92023		CRT	CI-SD_SLBE	City of San Diego SLBE
	P.O. Box 235258		Encinitas	CA	92023		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Blue Swell Construction Manage	2166 Montgomery Ave #A		Cardiff by the Sea	CA	92007	237110 WATER AND SEWER LINE AND REL	CRT	CI-SD_ELBE	City of San Diego ELBE
	2166 Montgomery Ave #A		Cardiff by the Sea	CA	92007		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
BC3 Equipment Inc	8400 N Magnolia Ave K		Santee	CA	92071		CRT	CI-SD_ELBE	City of San Diego ELBE
	8400 N Magnolia Ave K		Santee	CA	92071		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
BERNAL BUILDERS INC	3343 DURANT ST		San Diego	CA	92113		CRT	CI-SD_ELBE	City of San Diego ELBE
	3343 DURANT ST		San Diego	CA	92113		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
BERT W SALAS INC	10769 WOODSIDE AVE #201		Santee	CA	92071-3		CRT	CI-SD_SLBE	City of San Diego SLBE
	10769 WOODSIDE AVE #201		Santee	CA	92071-3		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
BLACK IPO	6125 IMPERIAL AVE		San Diego	CA	92114		CRT	CI-SD_SLBE	City of San Diego SLBE
DI A CIV CA CE FAIR/ID CARAFFAITAL INC	6125 IMPERIAL AVE		San Diego	CA	92114		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
BLACK SAGE ENVIRONMENTAL INC	PO Box 154004		San Diego	CA	92195		CRT	CI-SD_ELBE	City of San Diego ELBE
DOMITA DIDELINE INC	PO Box 154004		San Diego	CA CA	92195	561730 LANDSCAPING SERVICES 237110 WATER AND SEWER LINE AND REL	SRC CRT	DMO-4442 CI-SD_SLBE	Certified SLBEs ELBEs Solicited from slbeapprovednaics
BONITA PIPELINE INC	140 N GLOVER AVE 140 N GLOVER AVE		Chula Vista Chula Vista	CA	?91910	237110 WATER AND SEWER LINE AND REL	SRC	DMO-4442	City of San Diego SLBE Certified SLBEs ELBEs Solicited from slbeapprovednaics
BRINO BUILDERS INC	1490 KOSTNER DR			CA	92154		CRT	CI-SD_ELBE	City of San Diego ELBE
BRING BUILDERS INC	1490 KOSTNER DR		San Diego San Diego	CA	92154		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
BUESCHER ELECTRIC INC	157 Palm Ave		Imperial Beach	CA	91932	2 238210 ELECTRICAL CONTRACTORS	CRT	CI-SD_ELBE	City of San Diego ELBE
BOLDONEN ELECTRIC INC	157 Palm Ave		Imperial Beach	CA	91932		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Chris Marquart DBA Code 3 Medi	663 S Rancho Santa Fe Rd	#177	San Marcos	CA	92078	238990 ALL OTHERSPECIALTY TRADE CON	CRT	CI-SD ELBE	City of San Diego ELBE
,	663 S Rancho Santa Fe Rd	#177	San Marcos	CA	92078	238990 ALL OTHERSPECIALTY TRADE CON	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Cielo Azul Inc DBA Cielo Azul	5339 Mt. Burnham Drive		San Diego	CA	92111	561730 LANDSCAPING SERVICES	CRT	CI-SD_ELBE	City of San Diego ELBE
	5339 Mt. Burnham Drive		San Diego	CA	92111		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Cityscape Services LLC	3288 Fifth Avenue Suite 403		San Diego	CA	92103	237110 WATER AND SEWER LINE AND REL	CRT	CI-SD_ELBE	City of San Diego ELBE
	3288 Fifth Avenue Suite 403		San Diego	CA	92103	237110 WATER AND SEWER LINE AND REL	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Coastal Tree Care INC	4349 Twain Ave Suite B		San Diego	CA	92120		CRT	CI-SD_ELBE	City of San Diego ELBE
	4349 Twain Ave Suite B		San Diego	CA	92120		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Cross Construction Inc	PO Box 231077		Encinitas	CA	92023		CRT	CI-SD_ELBE	City of San Diego ELBE
	PO Box 231077		Encinitas	CA	92023		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Crown Concrete Constructors IN	3444 Camino Del Rio North #106		San Diego	CA	92108		CRT	CI-SD_SLBE	City of San Diego SLBE
OF CHARLES CASETY CERT 1 1 2 2 1 1 2	3444 Camino Del Rio North #106		San Diego	CA	92108		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
CECILIA'S SAFETY SERVICE INC	1211 DISTRIBUTION WAY		Vista	CA	92081	561990 ALL OTHER SUPPORT SERVICES	CRT	CI-SD_SLBE	City of San Diego SLBE
COAST LANDSCADING ING	1211 DISTRIBUTION WAY	Cuite D	Vista	CA CA	92081	561990 ALL OTHER SUPPORT SERVICES	SRC CRT	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
COAST LANDSCAPING INC	2230 La Mirada Dr 2230 La Mirada Dr	Suite B	Vista Vista	CA	92081		SRC	CI-SD_SLBE DMO-4442	City of San Diego SLBE Certified SLBEs ELBEs Solicited from slbeapprovednaics
CONCRETE BUILDING SYSTEMS CONS	PO BOX 752	Suite B	Bonsall	CA	9208		CRT	CI-SD_SLBE	City of San Diego SLBE
CONCINE BOILDING 313 LEIVIS COINS	PO BOX 752	1	Bonsall	CA	92003		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
CTE INC	9747 Vine St	<u> </u>	Lakeside	CA	92040-4	218 238210 ELECTRICAL CONTRACTORS	CRT	CI-SD_ELBE	City of San Diego ELBE
	9747 Vine St	†	Lakeside	CA	92040-4		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
D&D Wildlife Habitat Restorati	9143 HARNESS ST		Spring Valley	CA	91977	7 561730 LANDSCAPING SERVICES	CRT	CI-SD ELBE	City of San Diego ELBE
	9143 HARNESS ST	Ì	Spring Valley	CA	91977		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
David H. Knight DBA Knight Pow	1911 Rue Chateau	1	Chula Vista	CA	91913	3 238210 ELECTRICAL CONTRACTORS	CRT	CI-SD ELBE	City of San Diego ELBE
	1911 Rue Chateau		Chula Vista	CA	91913	238210 ELECTRICAL CONTRACTORS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
DeRollo Pipeline	2588 El Camino Real #F320		Carlsbad	CA	92008		CRT	CI-SD_ELBE	City of San Diego ELBE
			Carlsbad	CA	92008		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
	2588 El Camino Real #F320								
DLG Contractors Inc	2588 El Camino Real #F320 10911 Wheatlands Ave #J		Santee	CA	92071	238990 ALL OTHERSPECIALTY TRADE CON	CRT	CI-SD_ELBE	City of San Diego ELBE
DLG Contractors Inc				CA CA	92071 92071	238990 ALL OTHERSPECIALTY TRADE CON 238990 ALL OTHERSPECIALTY TRADE CON	CRT SRC	DMO-4442	City of San Diego ELBE Certified SLBEs ELBEs Solicited from slbeapprovednaics
DLG Contractors Inc DR. DEMO DEMOLITION SERVICES	10911 Wheatlands Ave #J		Santee			238990 ALL OTHERSPECIALTY TRADE CON			

E&G Electrical Innovations	7620 SARANAC AVE		La Mesa	CA	91942-8	111 238210 ELECTRICAL CONTRACTORS	CRT	CI-SD ELBE	City of San Diego ELBE
	7620 SARANAC AVE		La Mesa	CA	91942-8	111 238210 ELECTRICAL CONTRACTORS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Entenman Development Group INC	421 Broadway Ave		San Diego	CA	92101	238110 POURED CONCRETE FOUNDATION &	CRT	CI-SD_ELBE	City of San Diego ELBE
	421 Broadway Ave		San Diego	CA	92101	238110 POURED CONCRETE FOUNDATION &	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Franco Barnaba DBA Contemporar	1413 VIA SALERNO		Escondido	CA	92026	561730 LANDSCAPING SERVICES	CRT	CI-SD_SLBE	City of San Diego SLBE
•	1413 VIA SALERNO		Escondido	CA	92026	561730 LANDSCAPING SERVICES	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Frank and Son Paving INC	PO BOX 698		Bonita	CA	91908	237310 HIGHWAY STREET & BRIDGE CONS	CRT	CI-SD_SLBE	City of San Diego SLBE
	PO BOX 698		Bonita	CA	91908	237310 HIGHWAY STREET & BRIDGE CONS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
FALCON CONSTRUCTION CO	4258 Calle Isabelino		San Diego	CA	92130	237110 WATER AND SEWER LINE AND REL	CRT	CI-SD_ELBE	City of San Diego ELBE
	4258 Calle Isabelino		San Diego	CA	92130	237110 WATER AND SEWER LINE AND REL	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Good Earth Living Architecture	7924 Armour St		San Diego	CA	92111	561730 LANDSCAPING SERVICES	CRT	CI-SD_ELBE	City of San Diego ELBE
	7924 Armour St		San Diego	CA	92111	561730 LANDSCAPING SERVICES	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
H+W Engineering INC	1810 Gillespie Way	Suite 207	El Cajon	CA	92020	238210 ELECTRICAL CONTRACTORS	CRT	CI-SD_ELBE	City of San Diego ELBE
	1810 Gillespie Way	Suite 207	El Cajon	CA	92020	238210 ELECTRICAL CONTRACTORS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Hankins Construction Inc	1315 Walnut St		Ramona	CA CA	92065	237310 HIGHWAY STREET & BRIDGE CONS	CRT SRC	CI-SD_ELBE	City of San Diego ELBE
HABITAT WEST INC	1315 Walnut St 2067 WINERIDGE PL #B		Ramona Escondido	CA	92065 92029	237310 HIGHWAY STREET & BRIDGE CONS 561730 LANDSCAPING SERVICES	CRT	DMO-4442 CI-SD SLBE	Certified SLBEs ELBEs Solicited from slbeapprovednaics City of San Diego SLBE
HABITAT WEST INC	2067 WINERIDGE PL#B		Escondido	CA	92029	561730 LANDSCAPING SERVICES 561730 LANDSCAPING SERVICES	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
HSCC INC	PO Box 1168		Lakeside	CA	92040	238110 POURED CONCRETE FOUNDATION &	CRT	CI-SD_SLBE	City of San Diego SLBE
insective	PO Box 1168		Lakeside	CA	92040	238110 POURED CONCRETE FOUNDATION &	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
IN-LINE FENCE & RAILING CO INC	1307 WALNUT ST		Ramona	CA	92065	237310 HIGHWAY STREET & BRIDGE CONS	CRT	CI-SD_SLBE	City of San Diego SLBE
	1307 WALNUT ST		Ramona	CA	92065		SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
INDUSTRIAL MAINTENANCE SUPPLY	2103 CAMINO VIDA ROBLE #B		Carlsbad	CA	92011		CRT	CI-SD_ELBE	City of San Diego ELBE
	2103 CAMINO VIDA ROBLE #B		Carlsbad	CA	92011	444190 OTHER BUILDING MATERIAL DEAL	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
IO Environmental & Infrastruct	2840 ADAMS AVE #301		San Diego	CA	92116	561730 LANDSCAPING SERVICES	CRT	CI-SD_SLBE	City of San Diego SLBE
	2840 ADAMS AVE #301		San Diego	CA	92116	561730 LANDSCAPING SERVICES	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
J&E SoCal Supply	9921 Carmel Mountain Rd	#229	San Diego	CA	92129	444190 OTHER BUILDING MATERIAL DEAL	CRT	CI-SD_SLBE	City of San Diego SLBE
	9921 Carmel Mountain Rd	#229	San Diego	CA	92129	444190 OTHER BUILDING MATERIAL DEAL	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Jon Kay dba Kay Construction C	9955 Medina Dr		Santee	CA	92071	237110 WATER AND SEWER LINE AND REL	CRT	CI-SD_ELBE	City of San Diego ELBE
	9955 Medina Dr		Santee	CA	92071	237110 WATER AND SEWER LINE AND REL	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Kevcon Inc	10679 Westview Pkwy		San Diego	CA	92126	561730 LANDSCAPING SERVICES	CRT	CI-SD_SLBE	City of San Diego SLBE
	10679 Westview Pkwy		San Diego	CA	92126	561730 LANDSCAPING SERVICES	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Kirk Paving Inc	8722 Winter Gardens Blvd		Lakeside	CA	92040 92040	237310 HIGHWAY STREET & BRIDGE CONS	CRT SRC	CI-SD_SLBE	City of San Diego SLBE
KENDRICK EXCAVATING INC	8722 Winter Gardens Blvd		Lakeside	CA	92040	237310 HIGHWAY STREET & BRIDGE CONS		DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
KENDRICK EXCAVATING INC	22024 Lyons Valley Rd 22024 Lyons Valley Rd		Alpine Alpine	CA CA	91901		CRT SRC	CI-SD_SLBE DMO-4442	City of San Diego SLBE Certified SLBEs ELBEs Solicited from slbeapprovednaics
LC Tree Service Inc	4455 MURPHY CANYON RD #100		El Cajon	CA	92123	561730 LANDSCAPING SERVICES	CRT	CI-SD SLBE	City of San Diego SLBE
LC Tree service Inc	4455 MURPHY CANYON RD #100		El Cajon	CA	92123	561730 LANDSCAPING SERVICES	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
LOW VOLTAGE FIRE INC	1090 Joshua Way	Ste A	Vista	CA	92081	238210 ELECTRICAL CONTRACTORS	CRT	CI-SD SLBE	City of San Diego SLBE
	1090 Joshua Way	Ste A	Vista	CA	92081	238210 ELECTRICAL CONTRACTORS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
M Carlin Systems INC dba MC Sy	9157 Chesapeake Dr		San Diego	CA	92123-1	002 238210 ELECTRICAL CONTRACTORS	CRT	CI-SD_SLBE	City of San Diego SLBE
	9157 Chesapeake Dr		San Diego	CA	92123-1	002 238210 ELECTRICAL CONTRACTORS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
M-Rae Engineering Inc	9865 meadow In		Descanso	CA	91916	237110 WATER AND SEWER LINE AND REL	CRT	CI-SD_SLBE	City of San Diego SLBE
	9865 meadow In		Descanso	CA	91916	237110 WATER AND SEWER LINE AND REL	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Makelele Systems Landscape and	PO BOX 2044		San Marcos	CA	92079	561730 LANDSCAPING SERVICES	CRT	CI-SD_ELBE	City of San Diego ELBE
	PO BOX 2044		San Marcos	CA	92079	561730 LANDSCAPING SERVICES	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Maxim Construction Co Inc	8005 Royal Gardens PL		EL CAJON	CA		237110 WATER AND SEWER LINE AND REL	CRT	CI-SD_ELBE	City of San Diego ELBE
	8005 Royal Gardens PL		EL CAJON	CA		237110 WATER AND SEWER LINE AND REL	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Montano Pipeline Inc	231 4th Ave		Chula Vista	CA		238990 ALL OTHERSPECIALTY TRADE CON	CRT	CI-SD_ELBE	City of San Diego ELBE
MEDINIO LANDECADE INC	231 4th Ave	1	Chula Vista	CA		238990 ALL OTHERSPECIALTY TRADE CON	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
MERINO LANDSCAPE INC	612 Arizona st	 	Chula Vista	CA CA	91911	561730 LANDSCAPING SERVICES 561730 LANDSCAPING SERVICES	CRT SRC	CI-SD_SLBE	City of San Diego SLBE
MILLER PAVING CORP	612 Arizona st 9236 Olive Dr	1	Chula Vista	CA	91911	237310 HIGHWAY STREET & BRIDGE CONS	CRT	DMO-4442 CI-SD SLBE	Certified SLBEs ELBEs Solicited from slbeapprovednaics City of San Diego SLBE
MILLER PAVING CORP	9236 Olive Dr		Spring Valley	CA	91977	237310 HIGHWAY STREET & BRIDGE CONS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
MONTGOMERY CONSTRUCTION SERVIC	123 WORTHINGTON ST #205	1	Spring Valley Spring Valley	CA	91977	237310 HIGHWAY STREET & BRIDGE CONS 238110 POURED CONCRETE FOUNDATION &	CRT	CI-SD_SLBE	City of San Diego SLBE
MONTGOWIERT CONSTRUCTION SERVIC	123 WORTHINGTON ST #205	1	Spring Valley Spring Valley	CA	91977	238110 POURED CONCRETE FOUNDATION & 238110 POURED CONCRETE FOUNDATION &	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
MOOR ELECTRIC INC	1244 MANCHESTER ST	†	National City	CA	91977	238210 FOURED CONCRETE FOUNDATION &	CRT	CI-SD_ELBE	City of San Diego ELBE
IN CONTEST OF THE PARTY OF THE	1244 MANCHESTER ST	†	National City	CA	91950	238210 ELECTRICAL CONTRACTORS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
NEW CENTURY CONSTRUCTION INC	9119 EMERALD GROVE AVE		Lakeside	CA	92040	237310 HIGHWAY STREET & BRIDGE CONS	CRT	CI-SD_ELBE	City of San Diego ELBE
	9119 EMERALD GROVE AVE		Lakeside	CA	92040	237310 HIGHWAY STREET & BRIDGE CONS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Ocean Paving & Sealing	2581 Pioneer Ave	Suite D	Vista	CA	92081	237310 HIGHWAY STREET & BRIDGE CONS	CRT	CI-SD_ELBE	City of San Diego ELBE
	2581 Pioneer Ave	Suite D	Vista	CA	92081	237310 HIGHWAY STREET & BRIDGE CONS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Phoenix Renewable Services LL	3137 Tiger Run Court #109		Carlsbad	CA	92010		CRT	CI-SD_ELBE	City of San Diego ELBE
	3137 Tiger Run Court #109		Carlsbad	CA	92010	238210 ELECTRICAL CONTRACTORS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Precision Striping Inc	545 W Bradley Ave		El Cajon	CA	92020	237310 HIGHWAY STREET & BRIDGE CONS	CRT	CI-SD_ELBE	City of San Diego ELBE
	545 W Bradley Ave		El Cajon	CA	92020	237310 HIGHWAY STREET & BRIDGE CONS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
PAYCO SPECIALTIES INC	120 NORTH 2ND AVE		Chula Vista	CA	91910	237310 HIGHWAY STREET & BRIDGE CONS	CRT	CI-SD_SLBE	City of San Diego SLBE
-	120 NORTH 2ND AVE	<u> </u>	Chula Vista	CA	91910	237310 HIGHWAY STREET & BRIDGE CONS	SRC	DMO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
PIPERIN CORP	510 Venture St		Escondido	CA	92029	237310 HIGHWAY STREET & BRIDGE CONS	CRT	CI-SD_ELBE	City of San Diego ELBE
FIFERIN CORF									
Quality Construction & Enginee	510 Venture St 11956 Bernardo Plaza Dr		Escondido San Diego	CA CA	92029 92128	237310 HIGHWAY STREET & BRIDGE CONS 238990 ALL OTHERSPECIALTY TRADE CON	SRC CRT	DMO-4442 CI-SD SLBE	Certified SLBEs ELBEs Solicited from slbeapprovednaics City of San Diego SLBE

	11956 Bernardo Plaza Dr		San Diego	CA	92128 238990 ALL OTHERSPECIALTY TRADE CON	SRC D	MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
QSB CONSTRUCTION	350 W 9th Ave #101		Escondido	CA	92025 238110 POURED CONCRETE FOUNDATION &	CRT C	I-SD_SLBE	City of San Diego SLBE
	350 W 9th Ave #101		Escondido	CA	92025 238110 POURED CONCRETE FOUNDATION &	SRC D	MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Reilly Construction Management	3585 PRINCE STREET		ESCONDIDO	CA	92025 237110 WATER AND SEWER LINE AND REL	CRT C	I-SD_ELBE	City of San Diego ELBE
,	3585 PRINCE STREET		ESCONDIDO	CA	92025 237110 WATER AND SEWER LINE AND REL		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
REC Trucking INC dba AR Concre	1128 2nd Ave		Chula Vista	CA	91911 238110 POURED CONCRETE FOUNDATION &	CRT C	I-SD_ELBE	City of San Diego ELBE
	1128 2nd Ave		Chula Vista	CA	91911 238110 POURED CONCRETE FOUNDATION &		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
RP General Construction Inc	460 Corporate Dr #B		Escondido	CA	92029 237310 HIGHWAY STREET & BRIDGE CONS	CRT C	I-SD SLBE	City of San Diego SLBE
	460 Corporate Dr #B		Escondido	CA	92029 237310 HIGHWAY STREET & BRIDGE CONS		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
San Diego Native Landscapes In	3627 Byrd St		San Diego	CA	92154 561730 LANDSCAPING SERVICES		I-SD ELBE	City of San Diego ELBE
	3627 Byrd St		San Diego	CA	92154 561730 LANDSCAPING SERVICES		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Sattler Solar INC	4770 Del Mar Ave		San Diego	CA	92107 238210 ELECTRICAL CONTRACTORS		I-SD ELBE	City of San Diego ELBE
	4770 Del Mar Ave		San Diego	CA	92107 238210 ELECTRICAL CONTRACTORS		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Siege Electric INC	2911 State St. Suite I		Carlsbad	CA	92008 238210 ELECTRICAL CONTRACTORS		I-SD ELBE	City of San Diego ELBE
	2911 State St. Suite I		Carlsbad	CA	92008 238210 ELECTRICAL CONTRACTORS		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
SALZANO ENGINEERING INC	1282 GREENFIELD DR		El Cajon	CA	92021 237110 WATER AND SEWER LINE AND REL		I-SD_SLBE	City of San Diego SLBE
	1282 GREENFIELD DR		El Cajon	CA	92021 237110 WATER AND SEWER LINE AND REL		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
SATURN ELECTRIC INC	7552 Trade St		San Diego	CA	92121 238210 ELECTRICAL CONTRACTORS		I-SD_ELBE	City of San Diego ELBE
	7552 Trade St	1	San Diego	CA	92121 238210 ELECTRICAL CONTRACTORS		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
SJ Electric	8731 Winter Gardens Blvd	†	Lakeside	CA	92040 238210 ELECTRICAL CONTRACTORS		I-SD ELBE	City of San Diego ELBE
	8731 Winter Gardens Blvd	1	Lakeside	CA	92040 238210 ELECTRICAL CONTRACTORS		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
SOUTHWEST TRAFFIC SIGNAL SERVI	PO Box 1297		El Cajon	CA	92022 238210 ELECTRICAL CONTRACTORS		I-SD SLBE	City of San Diego SLBE
SOUTHWEST THAT TIC SIGNAL SERVI	PO Box 1297		El Cajon	CA	92022 238210 ELECTRICAL CONTRACTORS		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Company	Address Line 1	Address Line 2	City	St	Zip Work Item		ode	Code Description
SPECS CIVIL SOLUTIONS INC	5430 VIA ALCAZAR	Address Line 2	San Diego	CA	92111 423510 METAL SERVICE CENTERS & OTHE		I-SD ELBE	City of San Diego ELBE
SI EES CIVIE SOED HONS INC	5430 VIA ALCAZAR		San Diego	CA	92111 423510 METAL SERVICE CENTERS & OTHE		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
SUBSURFACE SURVEYS & ASSOCIATE	2075 CORTE DEL NOGAL		Carlsbad	CA	92011 561990 ALL OTHER SUPPORT SERVICES		I-SD ELBE	City of San Diego ELBE
SOBSONI ACE SONVETS & ASSOCIATE	2075 CORTE DEL NOGAL		Carlsbad	CA	92011 561990 ALL OTHER SUPPORT SERVICES		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
SUTHERLIN CONTRACTING INC	2007 MUIRA LN	+	El Cajon	CA	92019 238210 ELECTRICAL CONTRACTORS		I-SD_SLBE	City of San Diego SLBE
30THEREIN CONTRACTING INC	2007 MUIRA LN	+	El Cajon	CA	92019 238210 ELECTRICAL CONTRACTORS		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Terra Group Landscape L.L.C.	1211 South 37th St		San Diego	CA	92113 561730 LANDSCAPING SERVICES		I-SD ELBE	City of San Diego ELBE
Terra Group Earluscape E.E.C.	1211 South 37th St	+	San Diego	CA	92113 561730 LANDSCAPING SERVICES		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
TIERRA DATA INC	10110 W LILAC RD	+	Escondido	CA	92026 561730 LANDSCAPING SERVICES		I-SD_SLBE	City of San Diego SLBE
TIERRA DATA INC	10110 W LILAC RD		Escondido	CA	92026 561730 LANDSCAPING SERVICES		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
TRANSTAR PIPELINE INC	10467 ROSELLE ST		San Diego	CA	92121 237310 HIGHWAY STREET & BRIDGE CONS		I-SD ELBE	City of San Diego ELBE
THANSTAKT II ELINE INC	10467 ROSELLE ST		San Diego	CA	92121 237310 HIGHWAY STREET & BRIDGE CONS		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
UNDERGROUND UTILITIES INC	9102 HARNESS ST #B		Spring Valley	CA	91977 237110 WATER AND SEWER LINE AND REL		I-SD ELBE	City of San Diego ELBE
UNDERGROUND OTHER LES INC	9102 HARNESS ST #B	+	Spring Valley	CA	91977 237110 WATER AND SEWER LINE AND REL		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
UNITED GENERAL CONSTRUCTION IN	13440 WHITEWATER DR	+	Poway	CA	92064 561730 LANDSCAPING SERVICES		I-SD SLBE	City of San Diego SLBE
ONITED GENERAL CONSTRUCTION IN	13440 WHITEWATER DR	+	Poway	CA	92064 561730 LANDSCAPING SERVICES		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Valley CM Inc DBA Valley Const	3525 Del Mar Heights Rd #200	+	San Diego	CA	92130 237110 WATER AND SEWER LINE AND REL		I-SD_ELBE	City of San Diego ELBE
valley civi inc DBA valley const	3525 Del Mar Heights Rd #200		San Diego	CA	92130 237110 WATER AND SEWER LINE AND REL		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Western State Builders	2141 Orange Ave	+	Escondido	CA	92029 238990 ALL OTHERSPECIALTY TRADE CON		I-SD ELBE	City of San Diego ELBE
Western state builders	2141 Orange Ave	+	Escondido	CA	92029 238990 ALL OTHERSPECIALTY TRADE CON		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Westturf Landscape Management	701 Mercantile St	+	Vista	CA	92083 561730 LANDSCAPING SERVICES		I-SD ELBE	City of San Diego ELBE
Westturi Lanuscape Management				CA			MO-4442	, ,
WESTERN GARDENS LANDSCARING IN	701 Mercantile St	+	Vista					Certified SLBEs ELBEs Solicited from slbeapprovednaics
WESTERN GARDENS LANDSCAPING IN	4616 Pannonia Rd	+	Carlsbad	CA	92008 561730 LANDSCAPING SERVICES 92008 561730 LANDSCAPING SERVICES		I-SD_SLBE IMO-4442	City of San Diego SLBE
WG CONSTRUCTION INC	4616 Pannonia Rd 1017 EL CAJON BLVD	STE B	Carlsbad El Cajon	CA	92008 561730 LANDSCAPING SERVICES 92020 237110 WATER AND SEWER LINE AND REL		I-SD SLBE	Certified SLBEs ELBEs Solicited from slbeapprovednaics
WG CONSTRUCTION INC	1017 EL CAJON BLVD	STE B		CA	92020 237110 WATER AND SEWER LINE AND REL 92020 237110 WATER AND SEWER LINE AND REL		MO-4442	City of San Diego SLBE
MULITEON CONTRACTING & MANUACES AT		SIEB	El Cajon	CA	92020 237110 WATER AND SEWER LINE AND REL 92029 237110 WATER AND SEWER LINE AND REL		I-SD SLBE	Certified SLBEs ELBEs Solicited from slbeapprovednaics
WHITSON CONTRACTING & MANAGEME	640 Alpine Way	+	Escondido	_				City of San Diego SLBE
Vandinat Commission INC	640 Alpine Way	Cuite CO2	Escondido	CA			MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
Xpedient Communication INC	5490 Complex Street	Suite 603	San Diego	CA	92123 238210 ELECTRICAL CONTRACTORS		I-SD_ELBE	City of San Diego ELBE
VDC C	5490 Complex Street	Suite 603	San Diego	CA	92123 238210 ELECTRICAL CONTRACTORS		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
YBS Construction Engineering	365 E J St	+	Chula Vista	CA	91910 238120 STRUCTURAL STEEL & PRECAST C		I-SD_ELBE	City of San Diego ELBE
	365 E J St	1	Chula Vista	CA	91910 238120 STRUCTURAL STEEL & PRECAST C		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
ZASUETA CONTRACTING INC	PO Box 866		Spring Valley	CA	91976 238990 ALL OTHERSPECIALTY TRADE CON		I-SD_SLBE	City of San Diego SLBE
	PO Box 866		Spring Valley	CA	91976 238990 ALL OTHERSPECIALTY TRADE CON		MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics
3Sixty Innovation inc	3555 rosecrans st 114-110	1	San Diego	CA	92110 237310 HIGHWAY STREET & BRIDGE CONS		I-SD_ELBE	City of San Diego ELBE
	3555 rosecrans st 114-110	1	San Diego	CA	92110 237310 HIGHWAY STREET & BRIDGE CONS	SRC D	MO-4442	Certified SLBEs ELBEs Solicited from slbeapprovednaics

A.1.1. Broadcast Solicitation Emails & ITB

March 30, 2022 Email Blast to Firms

(/)

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Invitation to Bid

From:	AV Ariel Vaca of Sukut Construction	Mar 30, 2022 Attachments	
То:	> 22-057: General Info (100)	Expand all Ad-Fax- Organics	s Proces (126 KB)
Good	afternoon,		
SLBE- certifi	s a Design-Build RFP for the City of San-ELBE mandatory goal. Based on the City ied SLBE-ELBE list, Sukut would like to it or this project.	of San Diego's	
	ate is April 12, 2022 at 12PM. Please con 957-2018, or estimating@sukut.com, wi erns.		

1 of 1

A.1.1 Broadcast Soliciations Made via Building Connected Based on City of San Diego's SLBE-ELBE Approved List

A.1.1 Broadcast Soliciations Made	via Building Conne	ted Based on City o	San Diego's SLBE-ELBE Approved List			1		
Company	First Name	Last Name	Email	Vendor	Company Status	Contact Status	Date Invited	Labor Type
Darnal Buildara Inc	Manual	Dormal	harnalhuildarsina@amail.aam		l lodosidod	Invite d	Max 20, 2022 at 11,27 AM DDT	None
Bernal Builders Inc	Manuel	Bernal	bernalbuildersinc@gmail.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	None
Transtar Pipeline, Inc.			info@transtarpipeline.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Piperin Corporation	Craig	Barry	craig@piperincorp.com		Undecided	Viewed	Mar 30, 2022 at 11:37 AM PDT	
Falcon Construction Co.	Estimating	Rategh	falconconstruction2002@gmail.com		Not Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	
Black IPO	wendell	stemley	wrstemley@aol.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Miller Paving Corp.	Dale	Miller	dale@millerpavingcorp.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
			and market promise and a second					
Miller Paving Corp.	John	Moore	john@millerpavingcorp.com		Undecided	Viewed	Apr 1, 2022 at 7:18 AM PDT	Non-Union
Bert W. Salas, Inc.	Bob	Salaz	bsalaz@bertsalasinc.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Buescher Electric	Anthony	Buescher	buescherelectric@gmail.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Now Contum Construction Inc	Loo	Challbara	novement in genetalistica Quality and		l lodosidod	Louito d	Max 20, 2022 at 11,27 AM DDT	
New Century Construction, Inc.	Lee	Shellberg	newcenturyconstruction@yahoo.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Whitson CM	Mitchel	Whitson	mitch@whitsoncm.com		Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	Union, Non-Union
Whitson CM	Estimating	WhitsonCM	estimating@whitsoncm.com		Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	Union, Non-Union
Underground Utilities	Valerie	Murphy	estimating@uuisd.com		Undecided	Viewed	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
QSB Construction	Alicia	Lowery	alicia.lowery@qsbconstruction.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
QUD CONSTITUCTION	, meia	LOWETY	and and the quotient detromed in		onacciaca		17101 30, 2022 at 11.37 AIVI FDI	Tron omon, ricraming wages
A B Hashmi Inc.	Ahmad	Hashmi	info@abhashmi.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Bc3 Equipment	Benny	Carroll	bc3equipment@gmail.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
Kay Construction	Jon	Kay	jonk@kayconstructionco.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	

Ambrit Services Inc	Chris	Hyams	chris@ambritservices.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
(night Dawer & Flortyin	David	Knight	di Alaishta ayyarala stria a a m	Undecided	lm site d	Max 20, 2022 at 11,27 AM DDT	Non Union
Knight Power & Electric	David	Knight	dk@knightpowerelectric.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
Precision Striping Inc	Cesar	Rodriguez	precisionstripingsd@gmail.com	Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	Prevailing Wages, Non-Union
Precision Striping Inc	Matt	Gable	matt@precisionstripingsd.com	Bidding	Invited	Mar 30, 2022 at 11:37 AM PDT	Prevailing Wages, Non-Union
			, and the same of			,	2 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1 G 1
Unknown Company			lv@blueswellcm.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
HSCC, Inc.	Estimating	Dept	estimating@hsccbuilders.com	Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	Prevailing Wages, Non-Union
HSCC, Inc.	Steven	Bengtson	sbengtson@hsccbuilders.com	Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	Prevailing Wages, Non-Union
valleycm			galina.mochel@valleycm.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Concrete Building Systems	Heather	Feather	office@concretebuildingsystemsinc.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
concrete banding systems	ricutiei	reaction	omec@concretesanangsystemsme.com	Officeraca	Inviced	Widi 30, 2022 dt 11.37 /Wi i B i	Non omon, revailing wages
Kirk Paving Inc.	Jon	Kirk	jon@kirkpaving.us	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
E&G ELECTRICAL INNOVATIONS	GERRY	SAUCEDO	gerry@egelectricalinnovations.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Union
			0.11				
In-Line Fence & Railing Co., Inc.			gary@inlinerail.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Union
In-Line Fence & Railing Co., Inc.	David	Ortiz	estimating@inlinerail.com	Undecided	Viewed	Mar 30, 2022 at 11:37 AM PDT	Union
Unknown Company			mwccoast@aol.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Accent Engineering &							
Construction Inc.	Rodney	Thompson	rthompson@accenteci.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Union
AXL Group	John	Bartholomew	john@axlco.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Low Voltage Integrated						20 2022 144 27 444 287	
Systems Inc.	Mary	Arguijo	info@sdlvis.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
Kendrick Excavating	Audrey	Kendrick	audrey@kendrick-sd.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Frank and Son Paving, Inc.	Jeanette	Delgado	franknsonpaving@yahoo.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
	300010	50.5000		- Indebided			The strong restaining wages
MC Systems	Michael	Carlin	mcarlin@m-c-systems.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
ABBA Project Management	Alexander	Buggy	abuggy@abbapm.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Unknown Company			rectrucking.inc@gmail.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	

		1	1	1	I	1	T	T
Unknown Company			cityscapecostcontrol@gmail.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Cte Inc.	Reggie	Clark	reggie@cte-ca.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Salzano Engineering Inc.	Becky	Irey	salzanoaccounting@hotmail.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Ahrana Mashanisal	Estimating	Estimating	astimating@ahransmash.gam		Not Didding	Viewed	May 20, 2022 at 11,27 AM DDT	Non Union Providing Wages
Ahrens Mechanical	Estimating	Estimating	estimating@ahrensmech.com		Not Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
Unknown Company	Greg	Drakos	build@cross-concrete.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Unknown Company			rpgeneralconst@yahoo.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Unknown Company			office@brinobuilders.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Unknown Company			scott@reillycmservices.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
YBS Concrete Inc.	Rudy	Sanchez	ybsconcrete@yahoo.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Bonita Pipeline Inc.	Devon	Edwards	frank@bonitapipeline.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Union, Non-Union
Ocean Paving Sealing	chris	sparks	chris@oceanpaving.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
Dick Miller, Inc.	Glen	Bullock	gbullock@dickmillerinc.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
Dick Miller, Inc.	Glen	Bullock	gbullock@dmiusa.net	Yes	Undecided	Viewed	Mar 30, 2022 at 11:37 AM PDT	Non-Union
Entenman Development Group	Christina	Slattery	office@entenmangroup.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	None
Unknown Company			mraeengineering@gmail.com		Not Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	
Alvarez And Shaw, Inc.	DAVID	SHAW	dshaw@alvarezandshaw.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Prevailing Wages, Union, Non-Union
Unknown Company			info@3sixtyinnovation.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
WG Construction	WILLIAM	GWYN	bill@wgconstructioninc.com		Not Bidding	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
Maxim Construction Co.	Derek	Franken	derek@maximcci.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Payco Specialties, Inc.			marci@payco.biz		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Union
H W Engineering	Bryan	Wayne	bryan@hwengr.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Unknown Company			jenalinc@cox.net		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Montgomery Construction Services	Patricia	Montgomery	patriciaa@montcsi.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union

Hankins Consruction, Inc.	Deborah	Hankins	pavnldy@hankinsconstruction.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Union
Manage Elephoia	D	llaan.	info Our could attain ad cour		Unadanidad	lander d	Mars 20, 2022 at 11:27 ANA DDT	New Union Union
Moor Electric	Dwayne	Henry	info@moorelectric-sd.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Union
Contemporary Design Landscaping	Franco	Barnaba	fbarnaba@hotmail.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
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SPECS Civil Solutions, Inc.	Amanda	Ernst	aernst@specscivilsolutions.com		Not Bidding	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
Southwest Signal Service	David	LeBeau	dlebeau@southwestsignal.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
DR. Demo Demolition Services	Rick	Montanec	drdemo@att.net		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Accurate Asphalt and								
Concrete Inc.	Tina	Meyer	admin@accurate-ac.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
Sam E Judd	Sam	Judd	sjelectric@cox.net		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
Jam E Judu	Jam	Judu	Scientification		Onacciaca	mviced	Wai 30, 2022 at 11.37 AW D1	NOTI OTHOR
Sam E Judd	Sam	Judd	sjudd@sjecompany.com	Yes	Undecided	Viewed	Mar 30, 2022 at 11:37 AM PDT	Non-Union
Zasueta Contracting	Andrew	Zasueta	azplaygrounds@cox.net		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Vacdiant Communications Inc	Davis	Catania	dauga Quadaa maa aa		Undosided	Invite of	Mar 20, 2022 at 11,27 AM DDT	Non Union
Xpedient Communications Inc.	Doug	Catania	dougc@xpdcom.com	+	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
Kevcon Inc.	Kev	Kutina	kev.kutina@kevcon.us		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Saturn Electric, Inc.	Timothy	Dudek	tim@saturnelectric.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Prevailing Wages
DLG Contractors	Bryan	Grant	bryan.dlgcontractors@gmail.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Western Gardens Landscaping	Greg	Vasilieff	greg@westerngardens.net		Undecided	Viewed	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
San Diego Native Landscapes Inc	Jose	Santana	sdnativelandscape@gmail.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Prevailing Wages
Merino Landscape	Chris	Merino	chris@merinolandscape.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
Derollo Pipeline			jose@derollopipeline.com		Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
Derollo Pipeline	Jose	Rolon	estimating@derollopipeline.com		Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	Non-Union, Prevailing Wages
Unknown Company			chris@mediamarq.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
Sutherlin Contracting	Kristi	Sutherlin	ksuthe4187@aol.com		Not Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	
Terra Group Landscape	Abner	Dominguez	abner@terragrouplandscape.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
SubSurface Surveys & Associates	George	Herman	gherman@subsurfacesurveys.com		Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	

nown Company			arborist@coastaltreecare.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
tturf Landscape			info@westturf.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
en Scaped Buildings	Jim	Mumford	jim@goodearthplants.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
			,			,	
strial Maintenance Supply	Clarke	Caines	clarkecaines@imsbolt.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	None
elele Systems Iscape & Maintenance	Dono	Cardenas	makalala@makalalagustama aam	Undecided	Invited	Mar 20, 2022 at 11,27 AM DDT	
scape & Maintenance	Pepe	Cardenas	makelele@makelelesystems.com	Ondecided	invited	Mar 30, 2022 at 11:37 AM PDT	
er Solar Inc.	Erik	Sattler	erik@sattlersolar.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
IE Safety & Supply Corp.	Candace	Friedman	candace@acmesafetysupply.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
ree Service	Larry	Coalson	larry@lctrees.com	Not Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	
	,		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				
nown Company			kathym@iosdv.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
t Landsooning Inc	tulor		tulax@agastlandsagning com	Undosidad	Invitod	Mar 20, 2022 at 11,27 AM DDT	Dravailing Wages Non Union
st Landscaping, Inc.	tyler	mason	tyler@coastlandscaping.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Prevailing Wages, Non-Union
nown Company			marketing@montanopipeline.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
k Sage Environmental,			jallen@blacksageenvironmental.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
nown Company			accounting@ceciliassafetyservice.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
			,				
tern State Builders Inc			julian@westernstatebuilder.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Non-Union
D Wildlife Habitat oration	Douglas	Mckinney	dauglasm@habitaterectoration.com	Not Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	
Drauon	Douglas	Mickinney	douglasm@habitatsrestoration.com	Not Blading	viewed	IVIAI 30, 2022 at 11:37 AIVI PDT	
ra Data	Cynthia	Booth	cynthia@tierradata.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	Prevailing Wages, None
lity Construction &							
neering Inc.	Estimating		qualitycengineering@gmail.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
nown Company			mrblue13@aol.com	Not Bidding	Viewed	Mar 30, 2022 at 11:37 AM PDT	
enix Renewable Services			info@phoenixrs.com	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
aown Company			ghurst@habitatuost.com	l Indosided	Invitod	Mar 20, 2022 at 11:27 AM DDT	
юмп сотпрану			gnurst@nabitatwest.com	Undecided	invited	IVIAT 30, 2022 AT 11:37 AIVI PDT	
E ELECTRIC INC	Joshua	Middleton	jmiddleton@siege-electric.com	Not Bidding	Invited	Mar 30, 2022 at 11:37 AM PDT	Union
E ELECTRIC INC	Chris	Day	cday@siege-electric.com	Not Bidding	Invited	Mar 30, 2022 at 11:37 AM PDT	Union
ed General Construction	Cristen	Mason	crismason@ugcco.net	Undecided	Invited	Mar 30, 2022 at 11:37 AM PDT	
neering Inc. nown Company enix Renewable Services nown Company E ELECTRIC INC			ghurst@habitatwest.com jmiddleton@siege-electric.com	Undecided Not Bidding	Invited	Mar 30, 2022 at 11:37 AM PDT Mar 30, 2022 at 11:37 AM PDT	

J&E So Cal Supply	John-Paul	Mitchell	jmitchell@jesocalsupply.com	Undecided	Invited	Mar 31, 2022 at 10:33 AM PDT	None



SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser,
Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric,
Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe,
Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt,
Steel Structures, Temporary Rail (Type K), Welding Contractor

SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

BID DATE: April 12, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC 4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003

Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC An Equal Opportunity Employer

PLEASE EMAIL YOUR RESPONSE TO SMALL BUSINESS EXCHANGE AT RVIVANCO@SBEINC.COM

COMPANY NAME: PHONE/FAX:

YES, we will be bidding SLBE ELBE

NO, we will not be bidding

Areas of Expertise

Contractor Licence: DIR Registration #

April 12, 2022 Email Blast to Firms

Q Search for people or companies Back to Projects(/projects/active) Organics Processing Facility Bid Packages (/projects/6255df507f61c000c2def7f7/bid-packages) Messages (/projects/6255df507f61c000c2def7f7/messages) Files (/projects/62 ← Back to Messages(/projects/6255df507f61c000c2def7f7/messages) Mark Unread Re-Advertisement w/ NDA From: AV Ariel Vaca of Sukut Construction Apr 12, 2022 **Attachments** To: Expand all ▶ 22-057: General Info (129) ▶ Intake Facility Building (10) Sukut NDA.pdf (/_/downl... (129 KB) Misting System for the Intake ... (3) ▶ Biofilter System for the Intake... (2) ▶ 3: Conveying Systems (5) ▶ Fire Sprinkler System for the I... (7) ▶ Rebar (5) ▶ AC Paving (5) ➤ Surveying (4) ➤ Basin Liner (2) ➤ Fences & Gates (1) ➤ Concrete (5) ➤ Building Protection System (1) Good afternoon, Due to this project being a Design-Build proposal, Sukut has readvertised this with a required NDA to be submitted. Please let us know if you are a City of San Diego Certified SLBE-ELBE interested in bidding this project, and our Estimating team will be in touch with more specifics. Please contact estimating@sukut.com with questions or concerns. Type your reply here... **B** *I* <u>U</u> ½≡ **:**≡

1 of 1 4/28/2022, 8:57 AM

A1.1 Broadcast Solicitations Made Via Building Connected on April 12, 2022 and Follow-Up Communication Reports Based on City of San Diego's SLBE-ELBE Approved List (Additionally Sukut outreached to additional Subcontractors/Vendors shown on this Report)

A1.1 Broadcast Solicitations Mac	de Via Building Conne	ected on April 12, 202	2 and Follow-Up Communication Reports Based	on City of	San Diego's SLBE-El	LBE Approved List (Additionally	Sukut outreached to additional Su	ibcontractors/Vendors shown on t	his Report)
Company	First Name	Last Name	Email	Vendor	Company Status	Contact Status	Date Invited	Date Consented to NDA	Labor Type
KONE Inc.	Clayton	Mack	clay.mack@kone.com		Undecided	Invited	Apr 20, 2022 at 8:01 AM PDT		Union, Non-Union, Prevailing Wages
Intellimodus LLC	Kyle	Schneider	kyle.schneider@intellimodus.com		Undecided	Invited	Apr 20, 2022 at 8:03 AM PDT		Non-Union
Ketek Group Inc. / Groundwater									
Control Systems	Shaun	Abel	shaun.abel@ketek.ca		Not Bidding	Consented to NDA & Viewed	Apr 20, 2022 at 8:01 AM PDT	Apr 21, 2022 at 8:58 AM PDT	Non-Union
The ACT Group			scollins@groupactinc.com		Bidding	Invited	Apr 20, 2022 at 11:24 AM PDT		Non-Union, Prevailing Wages
The ACT Group	Francesco	Sunseri	fsunseri@groupactinc.com		Bidding	Consented to NDA & Viewed	Apr 20, 2022 at 11:24 AM PDT	Apr 21, 2022 at 8:28 AM PDT	Non-Union, Prevailing Wages
The ACT Group			esunseri@groupactinc.com		Bidding	Invited	Apr 25, 2022 at 3:27 PM PDT		Non-Union, Prevailing Wages
Unknown Company			barry.evans@ferag.com		Undecided	Invited	Apr 21, 2022 at 11:16 AM PDT		
Bernal Builders Inc	Manuel	Bernal	bernalbuildersinc@gmail.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		None
Transtar Pipeline, Inc.			info@transtarpipeline.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Piperin Corporation	Craig	Barry	craig@piperincorp.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Falcon Construction Co.	Estimating	Rategh	falconconstruction2002@gmail.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Black IPO	wendell	stemley	wrstemley@aol.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Miller Paving Corp.	Dale	Miller	dale@millerpavingcorp.com		Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
Miller Paving Corp.	John	Moore	john@millerpavingcorp.com		Bidding	Consented to NDA & Viewed	Apr 12, 2022 at 1:23 PM PDT	Apr 13, 2022 at 6:15 AM PDT	Non-Union
Bert W. Salas, Inc.	Bob	Salaz	bsalaz@bertsalasinc.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Buescher Electric	Anthony	Buescher	buescherelectric@gmail.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
New Century Construction, Inc.	Lee	Shellberg	newcenturyconstruction@yahoo.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Whitson CM	Mitchel	Whitson	mitch@whitsoncm.com		Bid Submitted	Invited	Apr 12, 2022 at 1:23 PM PDT		Union, Non-Union
Whitson CM	Estimating	WhitsonCM	estimating@whitsoncm.com		Bid Submitted	Consented to NDA & Viewed	Apr 12, 2022 at 1:23 PM PDT	Apr 12, 2022 at 1:32 PM PDT	Union, Non-Union
Underground Utilities	Valerie	Murphy	estimating@uuisd.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union, Prevailing Wages
QSB Construction	Alicia	Lowery	alicia.lowery@qsbconstruction.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union, Prevailing Wages
QSB Construction	Robert	Keyser	estimating@qsbconstruction.com		Undecided	Consented to NDA & Viewed	Apr 13, 2022 at 1:27 PM PDT	Apr 14, 2022 at 9:44 AM PDT	Non-Union, Prevailing Wages
A B Hashmi Inc.	Ahmad	Hashmi	info@abhashmi.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Bc3 Equipment	Benny	Carroll	bc3equipment@gmail.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
Kay Construction	Jon	Кау	jonk@kayconstructionco.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Ambrit Services Inc	Chris	Hyams	chris@ambritservices.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
Knight Power & Electric	David	Knight	dk@knightpowerelectric.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
Precision Striping Inc	Cesar	Rodriguez	precisionstripingsd@gmail.com		Not Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		Prevailing Wages, Non-Union
Precision Striping Inc	Matt	Gable	matt@precisionstripingsd.com		Not Bidding	Consented to NDA & Viewed	Apr 12, 2022 at 1:23 PM PDT	Apr 12, 2022 at 1:34 PM PDT	Prevailing Wages, Non-Union
HSCC, Inc.	Estimating	Dept	estimating@hsccbuilders.com		Bidding	Consented to NDA & Viewed	Apr 12, 2022 at 1:23 PM PDT	Apr 12, 2022 at 1:34 PM PDT	Prevailing Wages, Non-Union
HSCC, Inc.	Steven	Bengtson	sbengtson@hsccbuilders.com		Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		Prevailing Wages, Non-Union
valleycm			galina.mochel@valleycm.com		Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		

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Concrete Building Systems	Heather	Feather	office@concretebuildingsystemsinc.com	Not Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union, Prevailing Wages
Kirk Paving Inc.	Jon	Kirk	jon@kirkpaving.us	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
E&G ELECTRICAL INNOVATIONS	GERRY	SAUCEDO	gerry@egelectricalinnovations.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Union
In-Line Fence & Railing Co., Inc.	David	Ortiz	estimating@inlinerail.com	Undecided	Consented to NDA	Apr 12, 2022 at 1:23 PM PDT	Apr 26, 2022 at 11:22 AM PDT	Union
In-Line Fence & Railing Co., Inc.			gary@inlinerail.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Union
Accent Engineering & Construction Inc.	Rodney	Thompson	rthompson@accenteci.com	Undecided	Consented to NDA	Apr 12, 2022 at 1:23 PM PDT	Apr 27, 2022 at 11:46 AM PDT	Union
AXL Group	John	Bartholomew	john@axlco.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT	rpi II, Loca de III io mini B	
Low Voltage Integrated Systems								
Inc.	Mary	Arguijo	info@sdlvis.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union, Prevailing Wages
Kendrick Excavating	Audrey	Kendrick	audrey@kendrick-sd.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Frank and Son Paving, Inc.	Jeanette	Delgado	franknsonpaving@yahoo.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union, Prevailing Wages
MC Systems	Michael	Carlin	mcarlin@m-c-systems.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union, Prevailing Wages
ABBA Project Management	Alexander	Buggy	abuggy@abbapm.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Cte Inc.	Reggie	Clark	reggie@cte-ca.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Salzano Engineering Inc.	Becky	Irey	salzanoaccounting@hotmail.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Ahrens Mechanical	Estimating	Estimating	estimating@ahrensmech.com	Not Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union, Prevailing Wages
Unknown Company	Greg	Drakos	build@cross-concrete.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
		Sanchez		Undecided		Apr 12, 2022 at 1:23 PM PDT		
YBS Concrete Inc.	Rudy		ybsconcrete@yahoo.com		Invited			
Bonita Pipeline Inc.	Devon	Edwards	frank@bonitapipeline.com	Undecided	Viewed	Apr 12, 2022 at 1:23 PM PDT		Union, Non-Union
Ocean Paving Sealing	chris	sparks	chris@oceanpaving.com	Undecided	Consented to NDA	Apr 12, 2022 at 1:23 PM PDT	Apr 25, 2022 at 1:09 PM PDT	Non-Union
Dick Miller, Inc.	Glen	Bullock	gbullock@dickmillerinc.com	Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
Entenman Development Group	Christina	Slattery	office@entenmangroup.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		None
Alvarez And Shaw, Inc.	DAVID	SHAW	dshaw@alvarezandshaw.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Prevailing Wages, Union, Non-Union
WG Construction	WILLIAM	GWYN	bill@wgconstructioninc.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
WG Construction	Scott	Middleton	scott@wgconstructioninc.com	Undecided	Consented to NDA & Viewed	Apr 13, 2022 at 6:55 AM PDT	Apr 13, 2022 at 6:55 AM PDT	Non-Union
Maxim Construction Co.	Derek	Franken	derek@maximcci.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Payco Specialties, Inc.			marci@payco.biz	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Union
Payco Specialties, Inc.	Jeremy	Griffin	jeremy@payco.biz	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Union
							A 42 2022 1 40 DM DDT	Official
H W Engineering Montgomery Construction	Bryan	Wayne	bryan@hwengr.com	Undecided	Consented to NDA & Viewed	Apr 12, 2022 at 1:23 PM PDT	Apr 12, 2022 at 1:48 PM PDT	
Services	Patricia	Montgomery	patriciaa@montcsi.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
Hankins Consruction, Inc.	Deborah	Hankins	pavnldy@hankinsconstruction.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Union
Moor Electric	Dwayne	Henry	info@moorelectric-sd.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union, Union
Contemporary Design Landscaping	Franco	Barnaba	fbarnaba@hotmail.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
SPECS Civil Solutions, Inc.	Amanda	Ernst	aernst@specscivilsolutions.com	Not Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
·								
Southwest Signal Service	David	LeBeau	dlebeau@southwestsignal.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT	1	<u> </u>

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DR. Demo Demolition Services	Rick	Montanec	drdemo@att.net	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Accurate Asphalt and Concrete Inc.	Tina	Meyer	admin@accurate-ac.com	u	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union, Prevailing Wages
Sam E Judd	Sam	Judd	sjelectric@cox.net	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
Zasueta Contracting	Andrew	Zasueta	azplaygrounds@cox.net	u	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Xpedient Communications Inc.	Doug	Catania	dougc@xpdcom.com		Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
Kevcon Inc.	Kev	Kutina	kev.kutina@kevcon.us		Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Saturn Electric, Inc.	Timothy	Dudek	tim@saturnelectric.com		Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Prevailing Wages
						Consented to NDA & Viewed	Apr 12, 2022 at 1:23 PM PDT	Apr 15, 2022 at 10:19 AM PDT	Frevailing wages
DLG Contractors	Bryan	Grant	bryan.dlgcontractors@gmail.com		Bidding				
Western Gardens Landscaping	Greg	Vasilieff	greg@westerngardens.net		Jndecided	Consented to NDA & Viewed	Apr 12, 2022 at 1:23 PM PDT	Apr 12, 2022 at 2:24 PM PDT	Non-Union, Prevailing Wages
San Diego Native Landscapes Inc	Jose	Santana	sdnativelandscape@gmail.com	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Prevailing Wages
Merino Landscape	Chris	Merino	chris@merinolandscape.com	U	Indecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union, Prevailing Wages
Derollo Pipeline	Jose	Rolon	estimating@derollopipeline.com	В	Bidding	Consented to NDA & Viewed	Apr 12, 2022 at 1:23 PM PDT	Apr 12, 2022 at 2:22 PM PDT	Non-Union, Prevailing Wages
Derollo Pipeline			jose@derollopipeline.com	В	Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union, Prevailing Wages
Sutherlin Contracting	Kristi	Sutherlin	ksuthe4187@aol.com	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Terra Group Landscape	Abner	Dominguez	abner@terragrouplandscape.com	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
SubSurface Surveys & Associates	George	Herman	gherman@subsurfacesurveys.com	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Westturf Landscape			info@westturf.com	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Green Scaped Buildings	Jim	Mumford	jim@goodearthplants.com	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
Industrial Maintenance Supply	Clarke	Caines	clarkecaines@imsbolt.com	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		None
Makelele Systems Landscape & Maintenance	Pepe	Cardenas	makelele@makelelesystems.com	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Sattler Solar Inc.	Erik	Sattler	erik@sattlersolar.com	N	Not Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		
ACME Safety & Supply Corp.	Candace	Friedman	candace@acmesafetysupply.com	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
LC Tree Service	Larry	Coalson	larry@lctrees.com	u	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Coast Landscaping, Inc.	tyler	mason	tyler@coastlandscaping.com		Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Prevailing Wages, Non-Union
Black Sage Environmental,	.,		jallen@blacksageenvironmental.com		Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		The second of th
Western State Builders Inc			julian@westernstatebuilder.com		Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Non-Union
D & D Wildlife Habitat									Non-onion
Restoration	Douglas	Mckinney	douglasm@habitatsrestoration.com		Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Tierra Data Quality Construction &	Cynthia	Booth	cynthia@tierradata.com	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		Prevailing Wages, None
Engineering Inc.	Estimating		qualitycengineering@gmail.com	U	Indecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Phoenix Renewable Services			info@phoenixrs.com	U	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
SIEGE ELECTRIC INC	Joshua	Middleton	jmiddleton@siege-electric.com	N	Not Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		Union
SIEGE ELECTRIC INC	Chris	Day	cday@siege-electric.com	N	Not Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		Union
United General Construction	Cristen	Mason	crismason@ugcco.net	U	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
J&E So Cal Supply	John-Paul	Mitchell	jmitchell@jesocalsupply.com	U	Jndecided	Invited	Apr 12, 2022 at 1:23 PM PDT		None

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Unknown Company			office@brinobuilders.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			lv@blueswellcm.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			accounting@ceciliassafetyservice.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			arborist@coastaltreecare.com	Not Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			kathym@iosdv.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			info@3sixtyinnovation.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			scott@reillycmservices.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			marketing@montanopipeline.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			chris@mediamarq.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			ghurst@habitatwest.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			mwccoast@aol.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			rectrucking.inc@gmail.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			cityscapecostcontrol@gmail.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			rpgeneralconst@yahoo.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			mraeengineering@gmail.com	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			jenalinc@cox.net	Undecided	Invited	Apr 12, 2022 at 1:23 PM PDT		
Unknown Company			mrblue13@aol.com	Not Bidding	Invited	Apr 12, 2022 at 1:23 PM PDT		
Challenger Sheet Metal Inc.	Joel	Quinonez	joel@challengersm.com	Undecided	Consented to NDA & Viewed		Apr 13, 2022 at 1:33 PM PDT	Non-Union, Prevailing Wages
Integrity Rebar Placers	Dolly	Adams	dadams@integrityrebarplacers.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Union
BlueScape Environmental	James	Westbrook	jwestbrook@bluescapeinc.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		
Meyer Land Surveying	Bidding Team		rfp@meyerlandsurveying.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Union
Meyer Land Surveying	Brandon	Meyer	brandon.meyer@meyerlandsurveying.com	Undecided	Viewed	Apr 13, 2022 at 1:27 PM PDT		Union
Ferguson Enterprises	Gary	Kohel	gary.kohel@ferguson.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Union, Non-Union, None
Chula Vista Electric Co.	CVE Estimating	Department	estimating@c-v-e.com	Undecided	Viewed	Apr 13, 2022 at 1:27 PM PDT		Union, Prevailing Wages
Ninyo & Moore Geotech & Enviro Consultant	Cherrie	Bowman	cbowman@ninyoandmoore.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Non-Union, Prevailing Wages, None
Yorke Engineering, LLC	Colleen	Humfreville	rfpresponse@yorkeengr.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		None
AMG & Associates Inc.	Bari	Heiden	estimating@amgassociatesinc.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		- Tone
Ponton Industries, Inc.	Kevin	Simpson	muni@pontonind.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		
Construction Testing and								
Engineering, Inc.	Tiffany	Hilborn	tiffany@cte-inc.net	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Union, Non-Union, Prevailing Wages
Tensar International Corp.	Louann	McCain	lmccain@tensarcorp.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Non-Union
San Diego Sheet Metal Inc	Boris	Uralets	boris@sandiegosheetmetal.net	Not Bidding	Consented to NDA & Viewed	Apr 13, 2022 at 1:27 PM PDT	Apr 14, 2022 at 11:31 AM PDT	Union, None, Prevailing Wages
San Diego Sheet Metal Inc	Alex	Chertkov	alex@sandiegosheetmetal.net	 Not Bidding	Invited	Apr 13, 2022 at 1:27 PM PDT		Union, None, Prevailing Wages
Mass Electric Construction Co	Brandon	Parker	bparker@masselec.com	 Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Union, None
3QC	Kristy	Ballengee	marketing@3qcinc.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Non-Union
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Legacy Reinforcing Steel LLC	Brian	Briggs	brian.briggs@legacyreinforcingsteel.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Union
Helix Electric, Inc.	Casey	Huntley	chuntley@helixelectric.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Non-Union, Prevailing Wages
Electrical Design Technology	Judy	Kasa	judy.kasa@edt-global.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		None
Columbia Steel, Inc.	Mike	Guerrero	mguerrero@csirialto.com	Not Bidding	Invited	Apr 13, 2022 at 1:27 PM PDT		Union, Prevailing Wages
Jensen Precast	John	Scott	jscott@jensenprecast.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Non-Union
IO Environmental & Infrastructure, Inc.	Eric	McAlinn	ericm@iosdv.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Non-Union, Prevailing Wages
Unique Scaffold	Steven	Gallegos	steve@uniquescaffoldca.com	Bidding	Invited	Apr 13, 2022 at 1:27 PM PDT		Union, Prevailing Wages
Landmark Consulting	amy	van duzer	bids@lmco.net	Undecided	Consented to NDA & Viewed	Apr 13, 2022 at 1:27 PM PDT	Apr 14, 2022 at 1:24 AM PDT	Non-Union
Landmark Consulting			lance@Imco.net	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Non-Union
Western Specialty Fabrication			westernspecialty@fibercementpanel.com	Not Bidding	Invited	Apr 13, 2022 at 1:27 PM PDT		Prevailing Wages
Western Specialty Fabrication	Valerie	Concepcion	wsf@sbcglobal.net	Not Bidding	Consented to NDA & Viewed	Apr 13, 2022 at 1:27 PM PDT	Apr 13, 2022 at 3:02 PM PDT	Prevailing Wages
Unknown Company			jimbuckley@agripost.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		
Unknown Company			cassidy@pumponellc.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		
Zzyzx Imaging LLC			info@zzyzximaging.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		Non-Union
Zzyzx Imaging LLC	Bernie	Nelson	bernie@zzyzximaging.com	Undecided	Consented to NDA & Viewed	Apr 13, 2022 at 1:27 PM PDT	Apr 13, 2022 at 1:37 PM PDT	Non-Union
Unknown Company			jwhall@westernwashouts.com	Undecided	Invited	Apr 13, 2022 at 1:27 PM PDT		
Tensar Earth Technologies, Inc.	Lars	Nelson	Inelson@tensarcorp.com	Undecided	Invited	Apr 21, 2022 at 1:01 PM PDT		Union, Non-Union
Accurate Asphalt and Concrete Inc.	Tina	Meyer	admin@accurate-ac.com	Undecided	Invited	Apr 25, 2022 at 12:48 PM PDT		Non-Union, Prevailing Wages
Hankins Consruction, Inc.	Deborah	Hankins	pavnldy@hankinsconstruction.com	Undecided	Invited	Apr 25, 2022 at 12:48 PM PDT		Union
Ocean Paving Sealing	chris	sparks	chris@oceanpaving.com	Bidding	Consented to NDA & Viewed	Apr 25, 2022 at 12:48 PM PDT	Apr 25, 2022 at 1:09 PM PDT	Non-Union
Unknown Company			capavingandgrading@gmail.com	Undecided	Invited	Apr 25, 2022 at 12:48 PM PDT		
Ambrit Services Inc	Chris	Hyams	chris@ambritservices.com	Undecided	Invited	Apr 25, 2022 at 12:58 PM PDT		Non-Union
D & E Construction, Inc	Dennis	Shamoon	dmshamoon@deconst.net	Undecided	Consented to NDA & Viewed	Apr 26, 2022 at 8:07 AM PDT	Apr 26, 2022 at 4:00 PM PDT	Non-Union
Field Lining Systems Inc.	John	Ramos	john@flsi.us	Bidding	Consented to NDA & Viewed	Apr 26, 2022 at 8:08 AM PDT	Apr 26, 2022 at 8:46 AM PDT	Non-Union
Coombs-Hopkins	Dean	Boode	dean@chcwater.com	Undecided	Invited	Apr 19, 2022 at 2:40 PM PDT		None
Biorem Technologies	Michael	Harman	mharman@biorem.biz	Bidding	Invited	Apr 19, 2022 at 2:40 PM PDT		
Biorem Technologies	Mark	Smit	msmit@biorem.biz	Bidding	Viewed	Apr 19, 2022 at 2:40 PM PDT		
Biorem Technologies	Amy	Arndt	aarndt@biorem.biz	Bidding	Consented to NDA & Viewed	Apr 19, 2022 at 2:40 PM PDT	Apr 20, 2022 at 9:02 AM PDT	
Gergen / JSS Construction, Inc.	Joe	Gergen	joe@gcjss.com	Undecided	Invited	Apr 28, 2022 at 7:27 AM PDT		Union, Prevailing Wages, Non-Union
Gergen / JSS Construction, Inc.	Jay	Gergen	jay@gcjss.com	Undecided	Invited	Apr 28, 2022 at 7:27 AM PDT		Union, Prevailing Wages, Non-Union
Accent Engineering & Construction Inc.	Rodney	Thompson	rthompson@accenteci.com	Undecided	Consented to NDA & Viewed	Apr 27, 2022 at 9:11 AM PDT	Apr 27, 2022 at 11:46 AM PDT	Union
Alvarez And Shaw, Inc.	DAVID	SHAW	dshaw@alvarezandshaw.com	Undecided	Invited	Apr 27, 2022 at 9:11 AM PDT		Prevailing Wages, Union, Non-Union
YBS Concrete Inc.	Rudy	Sanchez	ybsconcrete@yahoo.com	Undecided	Invited	Apr 27, 2022 at 9:11 AM PDT		
Unknown Company			office@brinobuilders.com	Undecided	Invited	Apr 27, 2022 at 9:11 AM PDT		

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Ybs Concrete Inc.	YBS CONCRETE	INC	office@ybsconcrete.com	Undecided	Invited	Apr 27, 2022 at 11:51 AM PDT		
In-Line Fence & Railing Co., Inc.	David	Ortiz	estimating@inlinerail.com	Undecided	Consented to NDA & Viewed	Apr 26, 2022 at 10:28 AM PDT	Apr 26, 2022 at 11:22 AM PDT	Union
Cosco Fire Protection, Inc.	Alex	Marino	amarino@coscofire.com	Bid Submitted	Invited	Apr 21, 2022 at 10:23 AM PDT		Union, Prevailing Wages, None
Cosco Fire Protection, Inc.	Alex	Hernandez	ahernandez@coscofire.com	Bid Submitted	Consented to NDA & Viewed	Apr 21, 2022 at 10:23 AM PDT	Apr 26, 2022 at 3:07 PM PDT	Union, Prevailing Wages, None
Cosco Fire Protection, Inc.	Casey	Pritchett	cpritchett@coscofire.com	Bid Submitted	Invited	Apr 21, 2022 at 10:23 AM PDT		Union, Prevailing Wages, None
Cosco Fire Protection, Inc.	Eddy	Shelton	eshelton@coscofire.com	Bid Submitted	Invited	Apr 21, 2022 at 10:23 AM PDT		Union, Prevailing Wages, None
Cosco Fire Protection, Inc.	James	Grimes	jgrimes@coscofire.com	Bid Submitted	Invited	Apr 21, 2022 at 10:23 AM PDT		Union, Prevailing Wages, None
Cosco Fire Protection, Inc.	Mark	Keller	mkeller@coscofire.com	Bid Submitted	Invited	Apr 21, 2022 at 1:27 PM PDT		Union, Prevailing Wages, None
Cosco Fire Protection, Inc.	Sara	Showalter	estimatingsd@coscofire.com	Bid Submitted	Invited	Apr 22, 2022 at 9:23 AM PDT		Union, Prevailing Wages, None
Cosco Fire Protection, Inc.	Michael	Cunnien	mcunnien@coscofire.com	Bid Submitted	Consented to NDA & Viewed	Apr 22, 2022 at 9:23 AM PDT	Apr 22, 2022 at 10:14 AM PDT	Union, Prevailing Wages, None
Cosco Fire Protection, Inc.	Michael	Altice	maltice@coscofire.com	Bid Submitted	Consented to NDA & Viewed	Apr 21, 2022 at 10:23 AM PDT	Apr 22, 2022 at 10:54 AM PDT	Union, Prevailing Wages, None
Cosco Fire Protection, Inc.	Timm	Ryker	tryker@coscofire.com	Bid Submitted	Consented to NDA & Viewed	Apr 21, 2022 at 10:23 AM PDT	Apr 22, 2022 at 11:53 AM PDT	Union, Prevailing Wages, None
Western Fire Protection	Contract	Admin	heather.c@westernfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages, Union
Western Fire Protection	Erik	Dunsmore	erik@westernfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages, Union
Western Fire Protection	Eric	Perez	eperez@westernfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages, Union
Western Fire Protection	Elena	Dubovenko	edubovenko@westernfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages, Union
Western Fire Protection	Keith	Kanie	kkanie@westernfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages, Union
Western Fire Protection	Mario	Mack	mmack@westernfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages, Union
HC West LLC dba A&D FIRE	Steve	Amstadt	samstadt@adfiresprinklers.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
HC West LLC dba A&D FIRE	Traci	Naskrent	tnaskrent@adfiresprinklers.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
HC West LLC dba A&D FIRE	Sarai	Lopez	sl@adfiresprinklers.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
HC West LLC dba A&D FIRE	Sarai	Lopez	sarail@adfiresprinklers.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
HC West LLC dba A&D FIRE	Rodney	Poland	rodney@adfiresprinklers.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
HC West LLC dba A&D FIRE	Philip	Bentley	pbentley@adfiresprinklers.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
HC West LLC dba A&D FIRE	Larry	Rosner	larry@adfiresprinklers.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
HC West LLC dba A&D FIRE	Justin	Floyd	jfloyd@adfiresprinklers.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
HC West LLC dba A&D FIRE	John	Abbott	jabbott@adfiresprinklers.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
HC West LLC dba A&D FIRE	Jackie	Horn	jhorn@adfiresprinklers.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
Ideal Fire Protection LLC	Mike	Hickman	mike@idealfire.net	Not Bidding	Consented to NDA & Viewed	Apr 21, 2022 at 10:23 AM PDT	Apr 21, 2022 at 2:22 PM PDT	Union, Prevailing Wages
Ideal Fire Protection LLC	Kevin	Wilson	kevin@idealfire.net	Not Bidding	Invited	Apr 21, 2022 at 10:23 AM PDT		Union, Prevailing Wages
Ideal Fire Protection LLC	Robert	Winter	robert@idealfire.net	Not Bidding	Invited	Apr 21, 2022 at 10:23 AM PDT		Union, Prevailing Wages
Industrial Fire Sprinkler Co.	James	Moore	james@indfire.net	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages, Union
Industrial Fire Sprinkler Co.	Jake	Sandage	jake@indfire.net	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages, Union
Industrial Fire Sprinkler Co.	Holly	Hebert	holly@indfire.net	 Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages, Union

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Industrial Fire Sprinkler Co.	Freddy	Alcaraz	freddy@indfire.net	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages, Union
Industrial Fire Sprinkler Co.	David	Sandage	david@indfire.net	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages, Union
World Fire Protection	Blake	Chapman	estimates@worldfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
World Fire Protection	Danai	Chapman	dchapman@worldfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
World Fire Protection	Jeff	Chase	jchase@worldfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
World Fire Protection	Robert	Fowers	rfowers@worldfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
World Fire Protection	Enmanuel	Vallejo	evallejo@worldfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
World Fire Protection	Randy	Vernetti	rvernetti@worldfireprotection.com	Undecided	Invited	Apr 21, 2022 at 10:23 AM PDT		Non-Union, Prevailing Wages
A-1 Fire Protection	Jill	Mccarty	jill@a1fpi.com	Bidding	Invited	Apr 21, 2022 at 10:23 AM PDT		Union, Prevailing Wages
A-1 Fire Protection	John	McCarty	john@a1fpi.com	Bidding	Invited	Apr 21, 2022 at 10:23 AM PDT		Union, Prevailing Wages
A-1 Fire Protection	Heidi	Simpson	heidi@a1fpi.com	Bidding	Invited	Apr 21, 2022 at 10:23 AM PDT		Union, Prevailing Wages
A-1 Fire Protection	Billy	Jones	billy@a1fpi.com	Bidding	Invited	Apr 21, 2022 at 10:23 AM PDT		Union, Prevailing Wages
A-1 Fire Protection			briana@a1fpi.com	Bidding	Invited	Apr 21, 2022 at 1:22 PM PDT		Union, Prevailing Wages
StructureCast	Anna	Dezember	anna@structurecast.com	Not Bidding	Consented to NDA & Viewed	Apr 19, 2022 at 1:22 PM PDT	Apr 20, 2022 at 5:01 PM PDT	Non-Union, Prevailing Wages, Union
De La Fuente Construction, Inc.	Jorge	Diaz	estimating@dlfci.com	Bidding	Invited	Apr 19, 2022 at 1:22 PM PDT		Non-Union
De La Fuente Construction, Inc.	Janette	Nuno	jnuno@dlfci.com	Bidding	Consented to NDA & Viewed	Apr 19, 2022 at 1:22 PM PDT	Apr 20, 2022 at 1:22 PM PDT	Non-Union
Span Construction & Engineering, Inc.	Eddie	Murillo	eddie.murillo@spanconstruction.com	Not Bidding	Viewed	Apr 19, 2022 at 1:22 PM PDT	, , ,	Non-Union
Span Construction & Engineering, Inc.	SPAN Costco	Construction	spancostcosales@spanconstruction.com	Not Bidding	Invited	Apr 19, 2022 at 1:22 PM PDT		Non-Union
Span Construction &	_							
Engineering, Inc. Span Construction &	Span	Construction	costcobids@spanconstruction.com	Not Bidding	Invited	Apr 19, 2022 at 1:22 PM PDT		Non-Union
Engineering, Inc. Span Construction &	ROGER	ACRES	rogera@spanconstruction.com	Not Bidding	Invited	Apr 19, 2022 at 1:22 PM PDT		Non-Union
Engineering, Inc.	Jose	Ramos	jose.ramos@spanconstruction.com	Not Bidding	Invited	Apr 19, 2022 at 1:22 PM PDT		Non-Union
Span Construction & Engineering, Inc.	Ashley	Vasquez	ashleyv@spanconstruction.com	Not Bidding	Invited	Apr 19, 2022 at 1:22 PM PDT		Non-Union
Facility Builders & Erectors, Inc.	Ronnie	Moody	rmoody@facilitybuilders.com	Not Bidding	Invited	Apr 19, 2022 at 1:22 PM PDT		Non-Union
Facility Builders & Erectors, Inc.	Rob	Immerman	rimmerman@facilitybuilders.com	Not Bidding	Invited	Apr 19, 2022 at 1:22 PM PDT		Non-Union
Overhead Door Corporation	Wayne	Henson	wayne henson@overheaddoor.com	Undecided	Invited	Apr 19, 2022 at 1:22 PM PDT		Union, Non-Union, Prevailing Wages, None
Overhead Door Corporation	Dustin	Lane	dustin_lane@overheaddoor.com	Undecided	Invited	Apr 19, 2022 at 1:22 PM PDT		Union, Non-Union, Prevailing Wages, None
Inland Overhead Door	Ryan	Sherrett	ryan@iohd.com	Bid Submitted	Invited	Apr 19, 2022 at 1:22 PM PDT		Union, Non-Union
Inland Overhead Door	Jody	Ford	jody@iohd.com	Bid Submitted	Invited	Apr 19, 2022 at 1:22 PM PDT		Union, Non-Union
Inland Overhead Door	Felicia	Baxter	felicia@iohd.com	Bid Submitted	Consented to NDA & Viewed	Apr 19, 2022 at 1:22 PM PDT	Apr 19, 2022 at 2:08 PM PDT	Union, Non-Union
Apex Fire System	Jim	Ransom	jim@apexfiresys.com	Not Bidding	Invited	Apr 19, 2022 at 1:22 PM PDT	Apr 13, 2022 at 2.00 FW FD1	Non-Union
Apex Fire System Apex Fire System	Tim	Harris	tim@apexfiresys.com	Not Bidding Not Bidding	Invited	Apr 19, 2022 at 1:22 PM PDT Apr 19, 2022 at 1:22 PM PDT		Non-Union
Apex Fire System	jackie	pratt	jackie@apexfiresys.com	Not Bidding	Invited	Apr 19, 2022 at 1:22 PM PDT		Non-Union
T. Viole Construction Co.	Tim	Viole	tim@tviole.com	Not Bidding	Invited	Apr 20, 2022 at 10:47 AM PDT		Non-Union, Prevailing Wages
Bremco Construction, Inc.	william	lewis	bill@bremcoconstruction.com	Not Bidding	Invited	Apr 20, 2022 at 9:25 AM PDT		

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Bremco Construction, Inc.			info@bremcoconstruction.com		Not Bidding	Invited	Apr 20, 2022 at 9:25 AM PDT		
Bremco Construction, Inc.	Greg	Darling	greg@bremcoconstruction.com		Not Bidding	Invited	Apr 20, 2022 at 10:57 AM PDT		
Unknown Company			mike@mistheat.com		Bidding	Invited	Apr 19, 2022 at 2:29 PM PDT		
ONM Environmental			joseph.provenzano@biolargo.com		Bid Submitted	Invited	Apr 19, 2022 at 2:29 PM PDT		Prevailing Wages, Non-Union
ONM Environmental	Joe	Provenzano	jp@odornomore.com		Bid Submitted	Consented to NDA & Viewed	Apr 19, 2022 at 2:29 PM PDT	Apr 19, 2022 at 2:50 PM PDT	Prevailing Wages, Non-Union
Big Fogg	Christopher	Miehl	chris@bigfogg.com		Undecided	Invited	Apr 20, 2022 at 11:04 AM PDT		
Big Fogg	Tom	Ernst	tom@bigfogg.com		Undecided	Invited	Apr 20, 2022 at 11:04 AM PDT		
Amber Steel Co.	amber		rsanders@ambersteel.net		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union
Amber Steel Co.	Edgar	Estrella	eestrella@ambersteel.net		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union
Amber Steel Co.	Daniel	Bergen	dbergen@ambersteel.net		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union
Amber Steel Co.	Kirk	Maywhort	kmaywhort@ambersteel.net		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union
Amber Steel Co.	Ramiro	Perez	azeltins@ambersteel.net		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT	A 22 2022 . L 0 42 444 PPT	Union
Amber Steel Co.	Ramiro	Perez	rperez@ambersteel.net		Undecided	Consented to NDA & Viewed	Apr 22, 2022 at 7:45 AM PDT	Apr 22, 2022 at 9:12 AM PDT	Union
Camblin Steel	Keith	Dixon	keith.dixon@camblinsteel.com		Bidding	Invited	Apr 22, 2022 at 7:45 AM PDT		Union
Camblin Steel	Bryan	Kaney	bryan.kaney@camblinsteel.com		Bidding	Invited	Apr 22, 2022 at 7:45 AM PDT		Union
Camblin Steel	Sarah	Knight	sarah.knight@camblinsteel.com		Bidding	Consented to NDA & Viewed	Apr 22, 2022 at 7:45 AM PDT	Apr 25, 2022 at 9:03 AM PDT	Union
Pacific Steel Group	William	Guisao	w.guisao@pacificsteelgroup.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Prevailing Wages
Pacific Steel Group	Romi	Bilodeau	r.bilodeau@pacificsteelgroup.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Prevailing Wages
Pacific Steel Group	Ron	Parcell	r.parcell@pacificsteelgroup.com		Undecided	Consented to NDA & Viewed	Apr 22, 2022 at 7:45 AM PDT	Apr 22, 2022 at 8:33 AM PDT	Union, Prevailing Wages
Pacific Steel Group	Nicole	Elbik	n.elbik@pacificsteelgroup.com		Undecided	Consented to NDA & Viewed	Apr 22, 2022 at 7:45 AM PDT	Apr 25, 2022 at 1:04 PM PDT	Union, Prevailing Wages
Pacific Steel Group	Patrick	Elliott	p.elliott@pacificsteelgroup.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Prevailing Wages
Pacific Steel Group	KEVIN	THOMPSON	k.thompson@pacificsteelgroup.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Prevailing Wages
Pacific Steel Group	keith	dixon	k.dixon@pacificsteelgroup.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Prevailing Wages
Pacific Steel Group	Drake	Vesco	d.vesco@pacificsteelgroup.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Prevailing Wages
Pacific Steel Group	james	masters	j.masters@pacificsteelgroup.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Prevailing Wages
Integrity Rebar Placers	Dolly	Adams	dadams@integrityrebarplacers.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union
CMC Steel Fabricators, Inc. dba CMC Rebar	DANIEL	WOODS	daniel.woods@cmc.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Non-Union, Prevailing Wages
CMC Steel Fabricators, Inc. dba CMC Rebar	David	Hansen	david.hansen@cmc.com		Undecided	Consented to NDA & Viewed	Apr 22, 2022 at 7:45 AM PDT	Apr 22, 2022 at 8:12 AM PDT	Union, Non-Union, Prevailing Wages
CMC Steel Fabricators, Inc. dba CMC Rebar	Elmo	Gonzales	elmo.gonzales@cmc.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Non-Union, Prevailing Wages
CMC Steel Fabricators, Inc. dba CMC Rebar	Jolly	Pablo	jolly.pablo@cmc.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Non-Union, Prevailing Wages
CMC Steel Fabricators, Inc. dba CMC Rebar	Mario	Padilla	mario.padilla@cmc.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Non-Union, Prevailing Wages
CMC Steel Fabricators, Inc. dba CMC Rebar	Noel	Pabustan	noel.pabustan@cmc.com		Undecided	Invited	Apr 22, 2022 at 7:45 AM PDT		Union, Non-Union, Prevailing Wages
CMC Steel Fabricators, Inc. dba	Keith	Dixon	keith.dixon@cmc.com	Yes	Undecided	Consented to NDA & Viewed		Apr 22, 2022 at 8:26 AM PDT	Union, Non-Union, Prevailing Wages
	Scott	Fitch			Undecided	Invited	Apr 25, 2022 at 2:13 PM PDT	7.p. 22, 2022 at 0.20 MM FDT	Union
Southland Surveying Inc.	Jocott	I IIII	company@southlandsurveying.com		oriueciueu	mviteu	IMPI 23, 2022 at 2:13 PIVI PDT	1	OHIOH

Terramark Surveying Inc	Robert	Shellman	terramark.surveys@gmail.com	Undecided	Invited	Apr 25, 2022 at 2:13 PM PDT		
Rancho Land Company	Tiffany	Lynch	tlynch@rancholandco.com	Undecided	Consented to NDA & Viewed	Apr 25, 2022 at 2:13 PM PDT	Apr 25, 2022 at 2:42 PM PDT	Non-Union
Stevens Cresto Engineering Inc			llk@scengr.com	Undecided	Invited	Apr 25, 2022 at 2:13 PM PDT		Non-Union



SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser,
Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric,
Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe,
Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt,
Steel Structures, Temporary Rail (Type K), Welding Contractor

SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

REVISED BID DATE: April 29, 2022 at 12:00 p.m. All Quotes Due Prior

Sukut Construction, LLC 4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003

Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC An Equal Opportunity Employer

PLEASE EMAIL YOUR RESPONSE TO SMALL BUSINESS EXCHANGE AT RVIVANCO@SBEINC.COM

COMPANY NAME: PHONE/FAX:

YES, we will be bidding SLBE ELBE

NO, we will not be bidding

Areas of Expertise

Contractor Licence: DIR Registration #

A.2.1 Solicitation must state which items or portions of work the bidder is requesting subcontractor/vendor pricing.

Bidders shall utilize Form AA60 to demonstrate compliance with this requirement and submit the completed form with Good Faith Effort Documentation.

Attached Form AA60

LIST OF WORK MADE AVAILABLE

List items of the Work the Bidder made available to SLBE-ELBE firms. Identify those items of the Work the Bidder might otherwise perform with its own forces and those items that have been broken down into economically feasible units to facilitate SLBE-ELBE participation. For each item listed, show the dollar amount and percentage of the Base Bid. The Bidder must demonstrate that enough work to meet the goal was made available to SLBE-ELBE firms.

ITEM OF WORK MADE AVAILABLE	NAICS CODE	BIDDER NORMALLY PERFORMS ITEM (Y/N)	ITEM BROKEN DOWN TO FACILITATE PARTICIPATION (Y/N)	AMOUNT	PERCENTAGE OF BASE BID

Form Title: LIST OF WORK MADE AVAILABLE (Rev. July 2012)

Form: AA60

Project Title:

LIST OF WORK MADE AVAILABLE

List items of the Work the Bidder made available to SLBE-ELBE firms. Identify those items of the Work the Bidder might otherwise perform with its own forces and those items that have been broken down into economically feasible units to facilitate SLBE-ELBE participation. For each item listed, show the dollar amount and percentage of the Base Bid. The Bidder must demonstrate that enough work to meet the goal was made available to SLBE-ELBE firms.

ITEM OF WORK MADE AVAILABLE	NAICS CODE	BIDDER NORMALLY PERFORMS ITEM (Y/N)	ITEM BROKEN DOWN TO FACILITATE PARTICIPATION (Y/N)	AMOUNT	PERCENTAGE OF BASE BID

Form Title: LIST OF WORK MADE AVAILABLE

Form: AA60

Project Title:

A2-5. See Invitation to Bid (ITB)



SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser,
Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric,
Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe,
Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt,
Steel Structures, Temporary Rail (Type K), Welding Contractor

SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

BID DATE: April 12, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC 4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003

Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

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COMPANY NAME: PHONE/FAX:

YES, we will be bidding SLBE ELBE

NO, we will not be bidding

Areas of Expertise

Contractor Licence: DIR Registration #



SUBS/SERVICE PROVIDERS

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Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric,
Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe,
Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt,
Steel Structures, Temporary Rail (Type K), Welding Contractor

SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

REVISED BID DATE: April 29, 2022 at 12:00 p.m. All Quotes Due Prior

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Phone: (714) 540-5351 • Fax: (714) 545-2003

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COMPANY NAME: PHONE/FAX:

YES, we will be bidding SLBE ELBE

NO, we will not be bidding

Areas of Expertise

Contractor Licence: DIR Registration #

A6a. NAIC Codes (for Vendors Solicited)



	Α	В	С	D	Е	F	G
				Selected			
	ĺ			for Work			
1		NAIC Code and Work Item	Business Solicited	Item	Code Type		Code Description
2	<u> </u>	237110 WATER AND SEWER LINE AND REL	AB HASHMI INC		NAIC		Water & Sewer Line & Related Structures Construction
3	\longmapsto		ABBA Project Management	Х	NAIC		Water & Sewer Line & Related Structures Construction
4	\longrightarrow		AHRENS MECHANICAL	Х	NAIC		Water & Sewer Line & Related Structures Construction
5	\longmapsto		Blue Swell Construction Manage	Х	NAIC		Water & Sewer Line & Related Structures Construction
6			BC3 Equipment Inc		NAIC		Water & Sewer Line & Related Structures Construction
7	\longmapsto		BONITA PIPELINE INC	X	NAIC		Water & Sewer Line & Related Structures Construction
8			Cityscape Services LLC	Х	NAIC		Water & Sewer Line & Related Structures Construction
9			Dick Miller INC		NAIC		Water & Sewer Line & Related Structures Construction
10	\longmapsto		FALCON CONSTRUCTION CO	Х	NAIC		Water & Sewer Line & Related Structures Construction
11			Jon Kay dba Kay Construction C	X	NAIC		Water & Sewer Line & Related Structures Construction
12			M-Rae Engineering INC	X	NAIC		Water & Sewer Line & Related Structures Construction
13	\longmapsto		Maxim Construction Co Inc	Х	NAIC		Water & Sewer Line & Related Structures Construction
14	 		PIPERIN CORP	<u> </u>	NAIC		Water & Sewer Line & Related Structures Construction
15			Reilly Construction Management	X	NAIC		Water & Sewer Line & Related Structures Construction
16			SALZANO ENGINEERING INC	Х	NAIC		Water & Sewer Line & Related Structures Construction
17			Transtar Pipeline INC		NAIC		Water & Sewer Line & Related Structures Construction
18	—		UNDERGROUND UTILITIES INC	X	NAIC		Water & Sewer Line & Related Structures Construction
19			Valley CM Inc DBA Valley Const	X	NAIC		Water & Sewer Line & Related Structures Construction
20			WG CONSTRUCTION INC	X	NAIC		Water & Sewer Line & Related Structures Construction
21	—		WHITSON CONTRACTING & MANAGEME	X	NAIC		Water & Sewer Line & Related Structures Construction
22			YBS Construction Engineering		NAIC	237110	Water & Sewer Line & Related Structures Construction
23	COUNT	21					
24		237310 HIGHWAY STREET & BRIDGE CONS	Ambrit Services Inc	X	NAIC		Highway, Street, & Bridge Construction
25			AB HASHMI INC	X	NAIC		Highway, Street, & Bridge Construction
26	—		BERT W SALAS INC	X	NAIC		Highway, Street, & Bridge Construction
27			Christopher Sparks dba Ocean P	X	NAIC		Highway, Street, & Bridge Construction
28	—		Dick Miller INC	X	NAIC		Highway, Street, & Bridge Construction
29	\vdash		Frank and Son Paving INC	X	NAIC		Highway, Street, & Bridge Construction
30	\vdash		Hankins Construction Inc	X	NAIC		Highway, Street, & Bridge Construction
31			IN-LINE FENCE & RAILING CO INC	X	NAIC		Highway, Street, & Bridge Construction
32	\vdash		Kirk Paving Inc	X	NAIC		Highway, Street, & Bridge Construction
33	\longrightarrow		KENDRICK EXCAVATING INC	X	NAIC		Highway, Street, & Bridge Construction
34	\longmapsto		MILLER PAVING CORP	X	NAIC		Highway, Street, & Bridge Construction
35	\longmapsto		NEW CENTURY CONSTRUCTION INC	X	NAIC		Highway, Street, & Bridge Construction
36	\longmapsto		Precision Striping Inc	X	NAIC		Highway, Street, & Bridge Construction
37	 		PAYCO SPECIALTIES INC	X	NAIC		Highway, Street, & Bridge Construction
38	\longmapsto		PIPERIN CORP	X	NAIC		Highway, Street, & Bridge Construction
39	\longmapsto		RP General Construction Inc D	X	NAIC		Highway, Street, & Bridge Construction
40	\longrightarrow		Transtar Pipeline INC	X	NAIC		Highway, Street, & Bridge Construction
41	\longmapsto		YBS Construction Engineering	<u> </u>	NAIC		Highway, Street, & Bridge Construction
42	6011117		3Sixty Innovation inc	X	NAIC	23/310	Highway, Street, & Bridge Construction
43	COUNT	19		\ <u>\</u>	NIALC	220440	Designed Consents Foundation 9 Charles - Control
44		238110 POURED CONCRETE FOUNDATION &	Accent Engineering And Constru	X	NAIC		Poured Concrete Foundation & Structure Contractors
45			Brino Builders Inc	Х	NAIC	238110	Poured Concrete Foundation & Structure Contractors

	Α	В	С	D	E	F	G
46			BC3 Equipment Inc	Х	NAIC	238110 P	Poured Concrete Foundation & Structure Contractors
47			BLACK IPO	Х	NAIC	238110 P	Oured Concrete Foundation & Structure Contractors
48			Cross Construction Inc	Х	NAIC	238110 P	Oured Concrete Foundation & Structure Contractors
49			Crown Concrete Constructors IN	Х	NAIC	238110 P	Poured Concrete Foundation & Structure Contractors
50			CONCRETE BUILDING SYSTEMS CONS	х	NAIC		Poured Concrete Foundation & Structure Contractors
51			Entenman Development Group INC	х	NAIC	238110 P	Poured Concrete Foundation & Structure Contractors
52			HSCC INC	х	NAIC	238110 P	Poured Concrete Foundation & Structure Contractors
53			MONTGOMERY CONSTRUCTION SERVIC	х	NAIC		Poured Concrete Foundation & Structure Contractors
54			QSB CONSTRUCTION	x	NAIC		Poured Concrete Foundation & Structure Contractors
55			REC Trucking INC dba AR Concre	x	NAIC		Poured Concrete Foundation & Structure Contractors
56			YBS Construction Engineering		NAIC		Poured Concrete Foundation & Structure Contractors
57	COUNT		13				
58		238120 STRUCTURAL STEEL & PRECAST C	YBS Construction Engineering	Х	NAIC	238120 S	Structural Steel & Precast Concrete Contractors
59	COUNT		1				
60		238190 OTHER FOUNDATION STRUCTURE &	Alvarez and Shaw Inc	Х	NAIC	238190 0	Other Foundation, Structure, & Building Exterior Contractors
61			Bernal Builders Inc	X	NAIC		Other Foundation, Structure, & Building Exterior Contractors
62	COUNT		2				2
63		238210 ELECTRICAL CONTRACTORS	Accent Engineering And Constru		NAIC	238210 F	Electrical Contractors & Other Wiring Installation Contractors
64			AXL Group INC	x	NAIC		Electrical Contractors & Other Wiring Installation Contractors
65			Buescher Electric INC DBA Serv	X	NAIC		Electrical Contractors & Other Wiring Installation Contractors
66			CTE INC	X	NAIC		Electrical Contractors & Other Wiring Installation Contractors
67			David H. Knight DBA Knight Pow	x	NAIC		Electrical Contractors & Other Wiring Installation Contractors
68			E&G Electrical Innovations	X	NAIC		Electrical Contractors & Other Wiring Installation Contractors
69			H+W Engineering INC	x	NAIC		Electrical Contractors & Other Wiring Installation Contractors
70			Low Voltage Fire INC DBA Low V	X	NAIC		Electrical Contractors & Other Wiring Installation Contractors
71			M Carlin Systems INC dba MC Sy	x	NAIC		Electrical Contractors & Other Wiring Installation Contractors
72			Moor Electric INC	X	NAIC		Electrical Contractors & Other Wiring Installation Contractors
73			Phoenix Renewable Services LL	x	NAIC		Electrical Contractors & Other Wiring Installation Contractors
74			Sattler Solar INC	X	NAIC		Electrical Contractors & Other Wiring Installation Contractors
75			Siege Electric INC	x	NAIC		Electrical Contractors & Other Wiring Installation Contractors
76			SATURN ELECTRIC INC	X	NAIC		Electrical Contractors & Other Wiring Installation Contractors
77			SJ Electric	X	NAIC		Electrical Contractors & Other Wiring Installation Contractors
78			SOUTHWEST TRAFFIC SIGNAL SERVI	X	NAIC		Electrical Contractors & Other Wiring Installation Contractors
79			SUTHERLIN CONTRACTING INC	x	NAIC		Electrical Contractors & Other Wiring Installation Contractors
80			Xpedient Communication INC	X	NAIC		Electrical Contractors & Other Wiring Installation Contractors
81	COUNT		18		147410	230210	Lectrical contractors & other wiring instantation contractors
82		238990 ALL OTHERSPECIALTY TRADE CON	ACCURATE ASPHALT & CONCRETE IN	Х	NAIC	238990 4	All Other Specialty Trade Contractors
83		2000 OTTER OFFICE CONTRACTOR OF THE CONTRACTOR O	Cecilia's Safety Services INC		NAIC		All Other Specialty Trade Contractors
84			Chris Marquart DBA Code 3 Medi	Х	NAIC		All Other Specialty Trade Contractors
85			DLG Contractors Inc	x x	NAIC	_	All Other Specialty Trade Contractors
86			Entenman Development Group INC	^	NAIC		All Other Specialty Trade Contractors
87			Frank and Son Paving INC		NAIC		All Other Specialty Trade Contractors
88			Hankins Construction Inc		NAIC		All Other Specialty Trade Contractors
89			IN-LINE FENCE & RAILING CO INC		NAIC		All Other Specialty Trade Contractors
90			Jose Rolon dba DeRollo Pipelin	X	NAIC		All Other Specialty Trade Contractors
91			Kevcon Inc	^	NAIC	_	All Other Specialty Trade Contractors
							•
92			Montano Pipeline Inc	Х	NAIC	238990 A	All Other Specialty Trade Contractors

	Α	В	С	D	Е	F	G
93			PAYCO SPECIALTIES INC		NAIC	238990	All Other Specialty Trade Contractors
94			Quality Construction & Enginee	Х	NAIC		All Other Specialty Trade Contractors
95			R. Montanez Contracting INC DB	Х	NAIC		All Other Specialty Trade Contractors
96			Western State Builders INC	Х	NAIC		All Other Specialty Trade Contractors
97			ZASUETA CONTRACTING INC	Х	NAIC		All Other Specialty Trade Contractors
98			3Sixty Innovation inc		NAIC		All Other Specialty Trade Contractors
99	COUNT	17					
100		423510 METAL SERVICE CENTERS & OTHE	SPECS Civil Solutions Inc DBA	Х	NAIC	423510	Metal Service Centers & Other Metal Merchant Wholesalers
101	COUNT	1					
102		423990 OTHER MISC DURABLE GOODS MER	SPECS Civil Solutions Inc DBA		NAIC	423990	Other Miscellaneous Durable Goods Merchant Wholesalers
103	COUNT	1					
104		444190 OTHER BUILDING MATERIAL DEAL	Clarvan Inc DBA Industrial Ma	Χ	NAIC	444190	Other Building Material Dealers
105			J&E SoCAL Supply Inc	Χ	NAIC	444190	Other Building Material Dealers
106	COUNT	2					
107		561730 LANDSCAPING SERVICES	AB HASHMI INC		NAIC	561730	Landscaping Services
108			BLACK SAGE ENVIRONMENTAL INC	Χ	NAIC	561730	Landscaping Services
109			Cielo Azul Inc DBA Cielo Azul	Χ	NAIC		Landscaping Services
110			Coastal Tree Care INC	Χ	NAIC	561730	Landscaping Services
111			COAST LANDSCAPING INC	Χ	NAIC	561730	Landscaping Services
112			D&D Wildlife Habitat Restorati	Χ	NAIC	561730	Landscaping Services
113			Franco Barnaba DBA Contemporar	Χ	NAIC	561730	Landscaping Services
114			Good Earth Living Architecture	Χ	NAIC		Landscaping Services
115			HABITAT WEST INC	Χ	NAIC	561730	Landscaping Services
116			IO Environmental & Infrastruct	Χ	NAIC	561730	Landscaping Services
117			Kevcon Inc	Χ	NAIC	561730	Landscaping Services
118			LC Tree Service Inc	Χ	NAIC	561730	Landscaping Services
119			Makelele Systems Landscape & M	Χ	NAIC	561730	Landscaping Services
120			Merino Landscape Inc	Χ	NAIC		Landscaping Services
121			San Diego Native Landscapes In	Χ	NAIC	561730	Landscaping Services
122			Terra Group Landscape LLC	Χ	NAIC	561730	Landscaping Services
123			TIERRA DATA INC	Χ	NAIC	561730	Landscaping Services
124			UNITED GENERAL CONSTRUCTION IN	Χ	NAIC	561730	Landscaping Services
125			Westturf Landscape Management	Х	NAIC	561730	Landscaping Services
126			WESTERN GARDENS LANDSCAPING IN	Χ	NAIC	561730	Landscaping Services
	COUNT	20					
128		561990 ALL OTHER SUPPORT SERVICES	ACME SAFETY & SUPPLY CORP	Х	NAIC		All Other Support Services
129			Cecilia's Safety Services INC	Χ	NAIC		All Other Support Services
130			SUBSURFACE SURVEYS & ASSOCIATE	Х	NAIC	561990	All Other Support Services
	COUNT	3					
	FINAL	TOTALS					
	COUNT	118					
134							
		Note: Businesses may appear under multiple CUF					
135		Codes but are only selected once					

CERTIFIED SLBEs / ELBEs (sorted by NAICS)

213111 Drilling Oil and Gas Wells

SD Drilling, Inc.	Phone # (760)	789-4935 Fax	# (760) 788-9328
ledezmaria@hotmail.com	Contact Person: Rube	n Ledezma	
		License Type	Business Status
		C-42	Emerging
		C-57	Emerging
		D-09	Emerging
		C-61	Emerging
NOTE: Large diameter bucket auger drilling			

221310 Water Supply and Irrigation Systems

Brent Harvey Consulting, Inc	Phone # (76	60) 78	37-0842 Fax	# (760) 787-0844		
brent@harvey.pro	Contact Person: C	Corri A	i Ayn Harvey, Brent Harvey			
			License Type	Business Status		
			ARC	Emerging		
NOTE: Irrigation Design Consultants						
Salzano Engineering, Inc.	Phone # (61	19) 59	3-9592 Fax	# (619) 593-9591		
Salzanoaccounting@hotmail.com	Contact Person: F	Felicia	Salzano			
			License Type	Business Status		
			Α	Small		
			C-16	Small		
			C-36	Small		
			HAZ	Small		
NOTE: Install underground sewer, water, storm drains						

236115 New Single-Family Housing Construction (except Operative Builders)

	ic running riousing constitution		· · · · · · · · · · · · · · · · · · ·	
Falcon Construction Co.		Phone # ((619) 840-8998	Fax # (858) 925-7337
falconconstruction2002@gi	mail.com	Contact Person:	Ahmad Rategh	
			License Type	Business Status
			В	Emerging
			А	Emerging
	ldings, roads, bridges, pipeline ocrete, and landscape. Playgro			

236118 Residential Remodelers

Phone # (760) 585-7276 Fax # Nucave Construction, Inc. Ryan@NucaveConstruction.com Contact Person: Ryan Bittner **Business Status License Type** В **Emerging** NOTE: Design & Build Landscape and Construction Phone # (619) 977-8046 Fax # TAG Capital Management, Inc. DBA Gilliland Construction Management kirt@gillilandcm.com Contact Person: Kirt Gilliland **License Type Business Status** Goods/Services **Emerging** NOTE: Owners representative/Construction manager managing the design and construction of projects 236210 Industrial Building Construction Ahrens Mechanical Phone # (619) 487-9036 Fax # (619) 487-9195 Estimating@ahrensmech.com Contact Person: Greg Ahrens **License Type Business Status** Α Small В Small Small C-10 C-16 Small C-20 Small C-34 Small C-46 Small C-04 Small C-36 Small М Small NOTE: Construction, Water-Pretreatment, Mechanical Engineering and Cost **Estimating** Phone # (619) 449-4272 Fax # (619) 449-1930 Fordyce Construction, Inc. admin@fordyceconstruction.com Contact Person: Krista Fordyce **License Type Business Status** Α Small

NOTE: Commercial General Construction

В

Small

Montgomery Construction Services, Inc.	Phone # (6	519) 57	8-2538 Fax	# (619) 546-8482			
patriciaa@montcsi.com	Contact Person:	Clifford	fford K. Montgomery				
			License Type	Business Status			
			Α	Small			
			В	Small			
			C-12	Small			
NOTE: Site demolition, earthwork, structural concrete, mason	nry, carpentry						
Speedway Constructors, Inc.	Phone # (6	519) 81	9-7565 Fax	# (619) 819-7565			
Williamf@speedwayci.com	Contact Person:	Willian	n Forero				
			License Type	Business Status			
			В	Small			
			Α	Small			
NOTE:							

236220 Commercial and Institutional Building Con	struction				
Accent Engineering and Construction	Phone # (6)	19) 954	4-4852	Fax # (619) 954-4852	
Rthompson@accenteci.com	Contact Person: F	Rodney	dney Thompson		
			License Type	Business Status	
			В	Emerging	
			C-10	Emerging	
			C-16	Emerging	
			C-20	Emerging	
			C-36	Emerging	
			C-08	Emerging	
			Α	Emerging	
NOTE: General Contractor: Structural Concrete; Site Concrete Utilities; HDD Boring	e; Underground				
Anthony Cossi DBA Tony Cossi Construction	Phone # (63	19) 581	1-7865	Fax #	
Teeforee@yahoo.com	Contact Person: Anthony Cossi				
			License Type	Business Status	
			В	Small	
NOTE: Any Construction activity that requires a B License					
Ed Global, Inc.	Phone # (6:	19) 862	2-8435	Fax #	
edglobalinc@gmail.com	Contact Person: E	Edgar D	Diaz De La Fuei	nte	
			License Type	Business Status	
			В	Emerging	
NOTE: General Construction					

Ferandell Tennis Courts, Inc	Phone # (858) 3	50-3444 Fa	ax #		
manager@ferandelltenniscourts.com	Contact Person: Paul Ferandell				
		License Type	Business Status		
		А	Emerging		
		В	Emerging		
NOTE: Construction, installation, repair, replace, refurbish courts (i.e. tennis, basketball, bocce ball, volleyball,	_				
etc.) and playgrounds, including fencing, lighting ar	· ·				
Fordyce Construction, Inc.	Phone # (619) 4	49-4272 Fa	ax # (619) 449-1930		
admin@fordyceconstruction.com	Contact Person: Krista	Fordvce			
		License Type	Business Status		
		A	Small		
		В	Small		
NOTE: General Construction					
	DI " (010) 0				
KCM Group	Phone # (619) 8		ax #		
gkovtun@kcmgroup.net	on Kovtun				
		License Type	Business Status		
		Α	Small		
		В	Small		
NOTE: Construction Management, Construction Project M Services including Litigation Support	lanagement, Consulting				
Martin Resnik DBA Martin Resnik Construction Co	Phone # (619) 5	07-4395 Fa	ax #		
RESNIK97@GMAIL.COM	Contact Person: Marti	n Resnik			
		License Type	Business Status		
		В	Emerging		
NOTE: General Construction / Contracting- In house carpe concrete.	ntry, paint,drywall,				
Montgomery Construction Services, Inc.	Phone # (619) 5	78-2538 Fa	ax # (619) 546-8482		
patriciaa@montcsi.com	Contact Person: Clifford K. Montgomery				
	Jimo	License Type	Business Status		
		A	Small		
		В	Small		
		C-12	Small		
NOTE: Cite demolition could be a second		C-12	Jiliali		
NOTE: Site demolition, earthwork, structural concrete, ma	isonry, carpentry				

New City Consulting, Inc.	Phone # (858)	255-4613 Fax	#		
Patrick@newcityconsult.com	Contact Person: Patr	ick Nolan			
		License Type	Business Status		
		Goods/Services	Emerging		
NOTE: Construction Management and Project Management	t				
Ronald Kempf dba Ronald Kempf Enterprises	Phone # (619)	415-5548 Fax	# (000) 000-0000		
kempf.rke@gmail.com	Contact Person: Ron	ald Kempf			
		License Type	Business Status		
		Goods/Services	Emerging		
NOTE: Provide cost estimating and project control services	;				
Tiger Construction, LLC	Phone # (619)	587-3867 Fax	#		
mahmed@geauxtigerconstruction.com	Contact Person: Mol	Contact Person: Mohsen H. Ahmed II			
		License Type	Business Status		
		В	Emerging		
NOTE: General Contractor, framing and carpentry.					
237110 Water and Sewer Line and Related Structures Construction					
A.B. Hashmi, Inc.	Phone # (760)	672-8059 Fax	# (858) 433-7215		
info@abhashmi.com	Contact Person: Ahn	hmad B. Hashmi			
		License Type	Business Status		
		A	Emerging		
		C-27	Emerging		
NOTE: Engineering & Landscaping Contractor. Concrete fla utilities, paving, drainage, landscaping & irrigation	twork, underground				
ABBA Project Management	Phone # (203)	940-0880 Fax	#		
abuggy@abbapm.com					
		License Type	Business Status		
		Goods/Services	Emerging		
NOTE: Project Management; Construction Management; St Staffing; Administration; Parking; Quality Control; M					

Compliance; Document Controls; Security; Consulting

Ahrens Mechanical	Phone #	(619) 48	37-9036	Fax	# (619) 487-9195	
Estimating@ahrensmech.com	Contact Person	Greg A	Ahrens			
			License Type		Business Status	
			Α		Small	
			В		Small	
			C-10		Small	
			C-16		Small	
			C-20		Small	
			C-34		Small	
			C-46		Small	
			C-04		Small	
			C-36		Small	
			М		Small	
NOTE: Construction, Water-Pretreatment, Mechanical Engine Estimating	eering and Cost					
BC3 Equipment, Inc.	Phone #	(619) 31	.2-2663	Fax	#	
bc3equipment@gmail.com	Contact Person	Benny	Carroll, Jr			
			License Type	!	Business Status	
			Α		Emerging	
NOTE: underground utilities such as water service, irrigation,	fire service, sewe	r,				
Blue Swell Construction Management, Inc	Phone #	(951) 31	15-8057	Fax	#	
lv@blueswellcm.com	Contact Person	Laurie	e Vasquez			
			License Type)	Business Status	
			Goods/Service	ces	Emerging	
NOTE: Construction Management / Inspection Services						
Bonita Pipeline, Inc.	Phone #	(619) 43	34-9801	Fax	# (619) 434-9802	
frank@bonitapipeline.com	Contact Person	Francis	sco J. Marquez	<u>z</u>		
			License Type)	Business Status	
			Α		Small	
			C-36		Small	
			C-34		Small	
			В		Small	
NOTE: Self perform site wet utilities, plumbing and pre-const	ruction services					

Citysca	pe Services, LLC	Phone # ((858) 36	57-0446	Fax	#
citysca	pecostcontrol@gmail.com	Contact Person:	Robert	t Secrest		
				License Type Goods/Service		Business Status Emerging
NOTE:	Cost Estimating and generating professional opinions construction cost	of probable				
Dick M	iller, Inc.	Phone # ((760) 47	71-6842	Fax	# (760) 471-6178
gbulloc	k@dickmillerinc.com	Contact Person:	Glen B	ullock		
				License Type		Business Status
				Α		Small
				C-12		Small
				В		Small
NOTE:	General Engineering Construction: Excavation, Gradin Improvements, Masonry, Landscape & Irrigation	ng, Wet Utilities, Stro	eet			
Falcon	Construction Co.	Phone # ((619) 84	10-8998	Fax	# (858) 925-7337
falconc	onstruction2002@gmail.com	Contact Person:	Ahmad	d Rategh		
				License Type		Business Status
				В		Emerging
				Α		Emerging
NOTE:						
Jon Kay	dba Kay Construction Co.	Phone # ((619) 65	64-9075	Fax	#
jonk@k	ayconstructionco.com.	Contact Person:	Jon Ka	у		
				License Type	!	Business Status
				Α		Emerging
				В		Emerging
NOTE:	Water and Sewer Line and Related Structures Constr	uction				
Maxim	Construction Company, Inc.	Phone # ((619) 99	0-4245	Fax	# (619) 334-1880
derek@	Omaximcci.com	Contact Person:	Derek	Franken		
				License Type		Business Status
				Α		Emerging
NOTE:	Contractor: Water, sewer, storm drain, etc.					
M-Rae	Engineering, Inc.	Phone # ((619) 44	15-4496	Fax	#
	ngineering@gmail.com	Contact Person:				
				License Type		Business Status
				A		Small
NOTE:	Wet/Dry Utility, Underground, Grading, Paving, Storr	n Drain				
	2.4 7 2	- -				

Phone #	(760) 30	15-7248	Fax # (760) 305-7253
			14.11 (700) 303 7233
Contact Ferson	. Craig L		Business Status
			Emerging
			Emerging
			Linerging
Phone #	(760) 31	.0-9816	Fax #
Contact Person	: Scott F	Reilly	
		License Type	Business Status
		No License	Emerging
Services, Estimat	<u> </u>		
Phone #	(619) 59	3-9592	Fax # (619) 593-9591
Contact Person	: Felicia	Salzano	
		License Type	Business Status
		Α	Small
		C-16	Small
		C-36	Small
		HAZ	Small
Phone #	(858) 45	3-0744	Fax # (858) 453-0745
			. (/
Contact Person	Cynthi	a S. Brito	(223, 223
Contact Person	: Cynthi	a S. Brito License Type	Business Status
Contact Person	: Cynthi		` ′
Contact Person	: Cynthi	License Type	Business Status
	Cynthi	License Type A	Business Status
	(619) 46	A 1-9500	Business Status Emerging
Phone #	(619) 46	A 1-9500	Business Status Emerging
Phone #	(619) 46	A 41-9500 el Harness	Business Status Emerging Fax # (619) 654-1301
Phone #	(619) 46	A 1-9500 el Harness License Type	Business Status Emerging Fax # (619) 654-1301 Business Status
	Phone # Contact Person Struction Services, Estimate ructability Review Phone # Contact Person	Phone # (760) 31 Contact Person: Scott F Struction Services, Estimating, ructability Reviews, Phone # (619) 59 Contact Person: Felicia	No License Struction Services, Estimating, ructability Reviews, Phone # (619) 593-9592 Contact Person: Felicia Salzano License Type A C-16 C-36

Phone # (858) 444-5979 Fax # (858) 408-3414 Valley CM, Inc. DBA Valley Construction Management Galina.mochel@valleycm.com Contact Person: Galina R. Mochel **Business Status License Type** Goods/Services **Emerging** NOTE: Construction Management/Goods and Material Services Phone # (619) 401-8000 Fax # (619) 749-7186 WG Construction, Inc. bill@wgconstructioninc.com Contact Person: William Gwyn **License Type Business Status** Α Small NOTE: Trenching and excavation for underground utilities Phone # (858) 673-0966 Fax # (858) 487-8355 Whitson Contracting & Management, Inc. Mitch@whitsoncm.com Contact Person: Mitchel James Whitson **License Type Business Status** Α Small NOTE: General Contractor approved to provide services for naics codes 237110 and 541620 only. Phone # (619) 271-6122 Fax # (619) 207-0008 **YBS Construction Engineering** Contact Person: Rodolfo Sanchez Ybsconcrete@yahoo.com **License Type Business Status** Α **Emerging** C-08 **Emerging** NOTE: 237120 Oil and Gas Pipeline and Related Structures Construction

Jenal Engineering Corporation

Phone # (619) 697-2200

Fax # (619) 697-2400

Jenalinc@cox.net

Contact Person:

License Type
A Small
HAZ Emerging

NOTE:

Fuel/waste oil storage tank
removal,installation,repair,aboveground,belowground, testing & compliance

237310 Highway, Street, and Bridge Construction

3Sixty Innovation, Inc.	Phone # (858) 3	04-1093 Fax	#
info@3sixtyinnovation.com	Contact Person: Moha	mad (Mike) Ismieal	Muhsin
		License Type	Business Status
		Α	Emerging
		В	Emerging
NOTE: General Construction			

A.B. Hashmi, Inc.	Phone # (760) 67	72-8059 Fax	(# (858) 433-7215
info@abhashmi.com	Contact Person: Ahma		(# (030) 433 7213
inio@abriasiiiii.com	Contact Ferson. Anna		
		License Type	Business Status
		Α	Emerging
		C-27	Emerging
NOTE: Engineering & Landscaping Contractor. Concrete flat utilities, paving, drainage, landscaping & irrigation	work, underground		
Ambrit Services, Inc.	Phone # (619) 58	82-9600 Fax	(#
chris@ambritservices.com	Contact Person: Chris I	Hyams	
		License Type	Business Status
		C-12	Emerging
		C-32	Emerging
NOTE: Paving road or parking lots, seal coating, striping, sign resurfacing AC.	ns, planing or		
Bert W. Salas, Inc.	Phone # (619) 56	62-7711 Fax	(# (619) 258-3515
bsalaz@bertsalasinc.com	Contact Person: Bob E.	. Salaz	
		License Type	Business Status
		A	Small
NOTE: Grading, flood control, water, sewer and storm drain	construction.		
Christopher Sparks dba Ocean Paving & Sealing	Phone # (619) 99	94-0606 Fax	(#
Chris@oceanpaving.com	Contact Person: Christe	opher Sparks	
		License Type	Business Status
		C-12	Emerging
NOTE: Asphalt and sealcoat contracting			
Dick Miller, Inc.	Phone # (760) 43	71-6842 Fax	(# (760) 471-6178
	Contact Person: Glen E		(" (700) 171 0170
gbullock@dickmillerinc.com	Contact Person. Gien E		
		License Type	Business Status
		A	Small
		C-12	Small
		В	Small
NOTE: General Engineering Construction: Excavation, Gradin Improvements, Masonry, Landscape & Irrigation	ng, Wet Utilities, Street		

License Type Business Status	Frank and Son Paving, Inc.	Phone # (619)	122-8322	Fax # (619) 420-9020
NOTE: Asphalt paving, seal coating, street repairs, and paving lots Hankins Construction, Inc. Phone # (760) 789-4343 Fax # Deborah A. Hankins License Type Business Status A Emerging NOTE: Grading, Paving, Seal Coating, Concrete - New, repairs or maintenance In-Line Fence & Railing Company, Inc DBA In-Line Construction, Inc Contact Person: David Ortiz License Type Business Status C-13 Small C-31 Small C-31 Small C-51 Small NOTE: All types of Fencing, Handrails, Guardrails Kendrick Excavating, Inc. Phone # (619) 922-9185 Fax # (619) 566-4306 audrey@kendrick-sd.com Contact Person: Audrey Kendrick License Type Business Status A Small C-51 Smal	franknsonpaving@yahoo.com	Contact Person: Alicia	T. Vasquez	
Hankins Construction, Inc. Phone # (760) 789-4343 Fax # pavnidy@hankinsconstruction.com Contact Person: Deborah A. Hankins License Type Business Status A Emerging NOTE: Grading, Paving, Seal Coating, Concrete - New, repairs or maintenance In-Line Fence & Railing Company, Inc DBA In-Line Construction, Inc Phone # (760) 789-0282 Fax # (760) 789-1915 gary@inlinerail.com Contact Person: David Ortiz License Type Business Status C-13 Small C-31 Small C-31 Small C-31 Small C-31 Small C-31 Small C-51 Sm			C-12	Small
Hankins Construction, Inc. pavnldy@hankinsconstruction.com Contact Person: Deborah A. Hankins License Type Business Status A Emerging NOTE: Grading, Paving, Seal Coating, Concrete - New, repairs or maintenance In-Line Fence & Railing Company, Inc DBA In-Line Construction, Inc Phone # (760) 789-0282 Fax # (760) 789-1915 gary@inlinerail.com Contact Person: David Ortiz License Type Business Status C-13 Small C-31 Small C-31 Small C-51 Small C-31 Small C-51 Small C-31 Small C-51 Small C-51 Small C-51 Small NOTE: All types of Fencing, Handrails, Guardrails Kendrick Excavating, Inc. Phone # (619) 922-9185 Fax # (619) 566-4306 License Type Business Status A Small NOTE: Grading, excavating, land clearing, trenches for under ground utilities Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Contact Person: Dale L. Miller License Type Business Status A Small	NOTE: Asphalt paying seal coating street repairs and paying	ng lots	^	Silian
Deborah A. Hankins License Type Business Status A Emerging NOTE: Grading, Paving, Seal Coating, Concrete - New, repairs or maintenance In-Line Fence & Railing Company, Inc DBA In-Line Construction, Inc Contact Person: Contact Person: David Ortiz License Type Business Status C-13 Small C-31 Small C-31 Small C-51 S				
NOTE: Grading, Paving, Seal Coating, Concrete - New, repairs or maintenance In-Line Fence & Railing Company, Inc DBA In-Line Construction, Inc In-Line Fence & Railing Company, Inc DBA In-Line Construction, Inc Contact Person: Contact Person: David Ortiz License Type Business Status C-13 Small C-31 Small C-51 Sma				Fax #
NOTE: Grading, Paving, Seal Coating, Concrete - New, repairs or maintenance In-Line Fence & Railing Company, Inc DBA In-Line Construction, Inc Phone # (760) 789-0282 Fax # (760) 789-1915 gary@inlinerail.com Contact Person: David Ortiz License Type Business Status C-31 Small C-31 Small C-31 Small C-51 Small C-51 Small C-51 Small NOTE: All types of Fencing, Handrails, Guardrails Kendrick Excavating, Inc. Phone # (619) 922-9185 Fax # (619) 566-4306 audrey@kendrick-sd.com Contact Person: Audrey Kendrick License Type Business Status A Small NOTE: Grading, excavating, land clearing, trenches for under ground utilities Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small	pavnldy@hankinsconstruction.com	Contact Person: Debo		
NOTE: Grading, Paving, Seal Coating, Concrete - New, repairs or maintenance In-Line Fence & Railing Company, Inc DBA In-Line Construction, Inc. Phone # (760) 789-0282 Fax # (760) 789-1915 Bary@inlinerail.com Contact Person: License Type Business Status C-13 Small C-31 Small C-31 Small C-51 Small C-51 Small NOTE: All types of Fencing, Handrails, Guardrails Kendrick Excavating, Inc. Phone # (619) 922-9185 Fax # (619) 566-4306 audrey@kendrick-sd.com Contact Person: Audrey Kendrick License Type Business Status A Small NOTE: Grading, excavating, land clearing, trenches for under ground utilities Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small				
In-Line Fence & Railing Company, Inc DBA In-Line Construction, Inc Phone # (760) 789-0282 Fax # (760) 789-1915 Bary@inlinerail.com Contact Person: License Type Business Status C-31 Small C-31 Small C-51 S			А	Emerging
Contact Person: David Ortiz License Type Business Status C-13 Small C-31 Small C-51 Small C-51 Small	Grading, Paving, Seal Coating, Concrete - New, repair	rs or maintenance		
License Type Business Status C-13 Small C-31 Small C-51 Small NOTE: All types of Fencing, Handrails, Guardrails Kendrick Excavating, Inc. Phone # (619) 922-9185 Fax # (619) 566-4306 Audrey Kendrick License Type Business Status A Small NOTE: Grading, excavating, land clearing, trenches for under ground utilities Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small	In-Line Fence & Railing Company, Inc DBA In-Line Construction	on, Inc Phone # (760) 7	789-0282	Fax # (760) 789-1915
C-13 Small C-31 Small C-31 Small C-51 Small C-51 Small NOTE: All types of Fencing, Handrails, Guardrails Kendrick Excavating, Inc. Phone # (619) 922-9185 Fax # (619) 566-4306 Audrey@kendrick-sd.com Contact Person: Audrey Kendrick License Type Business Status A Small NOTE: Grading, excavating, land clearing, trenches for under ground utilities Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small	gary@inlinerail.com	Contact Person: David	d Ortiz	
C-31 Small C-51 Small			License Type	Business Status
C-51 Small NOTE: All types of Fencing, Handrails, Guardrails Kendrick Excavating, Inc. Phone # (619) 922-9185 Fax # (619) 566-4306 audrey@kendrick-sd.com Contact Person: Audrey Kendrick License Type Business Status A Small NOTE: Grading, excavating, land clearing, trenches for under ground utilities Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small			C-13	Small
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Kendrick Excavating, Inc. Phone # (619) 922-9185 Fax # (619) 566-4306 audrey@kendrick-sd.com Contact Person: Audrey Kendrick License Type Business Status A Small NOTE: Grading, excavating, land clearing, trenches for under ground utilities Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small			C-51	Small
audrey@kendrick-sd.com Contact Person: License Type Business Status A Small NOTE: Grading, excavating, land clearing, trenches for under ground utilities Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small	NOTE: All types of Fencing, Handrails, Guardrails			
License Type A Small NOTE: Grading, excavating, land clearing, trenches for under ground utilities Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small	Kendrick Excavating, Inc.	Phone # (619) 9	922-9185	Fax # (619) 566-4306
A Small NOTE: Grading, excavating, land clearing, trenches for under ground utilities Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small	audrey@kendrick-sd.com	Contact Person: Audr	ey Kendrick	
NOTE: Grading, excavating, land clearing, trenches for under ground utilities Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small			License Type	Business Status
Kirk Paving, Inc. Phone # (619) 938-9958 Fax # (619) 938-0767 Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small			Α	Small
Kirkpaving@cox.net Contact Person: Jon A. Kirk License Type Business Status A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small	NOTE: Grading, excavating, land clearing, trenches for unde	r ground utilities		
License Type A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small	Kirk Paving, Inc.	Phone # (619) 9	938-9958	Fax # (619) 938-0767
A Small NOTE: General Contracting, Asphalt Paving, Grading, Demo, Excavation, Concrete Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small	Kirkpaving@cox.net	Contact Person: Jon A	. Kirk	
Miller Paving Corporation Phone # (619) 465-3725 Pax # (619) 465-2821 Contact Person: Dale License Type Business Status A Small			License Type	Business Status
Miller Paving Corporation Phone # (619) 465-3725 Fax # (619) 465-2821 Contact Person: Dale L. Miller License Type Business Status A Small			A	Small
Dale@millerpavingcorp.com Contact Person: Dale L. Miller License Type Business Status A Small	NOTE: General Contracting, Asphalt Paving, Grading, Demo,	Excavation, Concrete		
License Type Business Status A Small	Miller Paving Corporation	Phone # (619)	165-3725	Fax # (619) 465-2821
A Small		Contact Person: Dale	L. Miller	
	Dale@millerpavingcorp.com			
C-12 Small	Dale@millerpavingcorp.com		License Type	Business Status
	Dale@millerpavingcorp.com			
NOTE: Asphalt Paving	Dale@millerpavingcorp.com		A	Small

Name Ca	Construction In-	Phone #	/610\ 20	nn 2200	Fay #	(619) 390-3311
	entury Construction, Inc.				гах н	(019) 390-3311
Newcer	nturyconstruction@yahoo.com	Contact Person:	Lee P.			
				License Type		Business Status
				В		Emerging
				Α		Emerging
				HAZ		Emerging
				ASB		Emerging
NOTE:	General Contractor Only- does not provide services as General Engineering, storm drains, road repairs, struct retaining walls, concrete work, curb, gutter, and sidew	ural concrete,				
Paynec	o Specialties, Inc. DBA Payco Specialties	Phone #	(619) 42	22-9204	Fax #	(619) 427-1620
marci@	payco.biz	Contact Person:	Rebec	ca Llewellyn		
				License Type		Business Status
				C-32		Small
				В		Small
NOTE:	Specialty Construction					
Piperin	Corporation	Phone #	(760) 30)5-7248	Fax #	(760) 305-7253
craig@p	piperincorp.com	Contact Person:	Craig E	Barry		
				License Type		Business Status
				Α		Emerging
				В		Emerging
NOTE:	General Engineering and Building Construction					
Precisio	on Striping, Inc.	Phone #	(619) 43	32-1154	Fax #	ŧ
precisio	onstripingsd@gmail.com	Contact Person:	Tim M	artin		
				License Type		Business Status
				C-32		Emerging
NOTE:	Road & Parking Lot Striping, Pavement Markings, Signa Reflective Pavement Markers, Removals	age, Thermoplastio	С,			
RP Gen Engine	eral Construction, Inc DBA RP General Construction ering	Phone #	(760) 29	94-1669	Fax #	E
rpgener	ralconst@yahoo.com	Contact Person:	Ramiro	o Ponce		
				License Type		Business Status
				A		Small
				В		Small
NOTE:	GRADING, PAVING, NEW ASPHALT AND REPAIRS, SEAL STAMPED AND REGUALR CONCRETE	COAT, STRIPING,				

Transtar Pipeline, Inc.	Phone # (858) 4	53-0744 F	ax # (858) 453-0745
info@transtarpipeline.com	Contact Person: Cynth	ia S. Brito	
		License Type	Business Status
		Α	Emerging
NOTE: General Engineering Contractor			
YBS Construction Engineering	Phone # (619) 23	71-6122 F	ax # (619) 207-0008
Ybsconcrete@yahoo.com	Contact Person: Rodol	fo Sanchez	
		License Type	Business Status
		Α	Emerging
		C-08	Emerging
NOTE: Concrete work, ped ramps, sidewalk, curb & gutter, work	demolition, all concrete		
237990 Other Heavy and Civil Engineering Constr	uction		
A.B. Hashmi, Inc.	Phone # (760) 63	72-8059 F	ax # (858) 433-7215
info@abhashmi.com	Contact Person: Ahma	d B. Hashmi	
		License Type	Business Status
		Α	Emerging
		C-27	Emerging
NOTE: General Engineering Contractor specializing in public storm drain, hardscape, paving, landscape, irrigation			
Alvarez and Shaw, Inc	Phone # (619) 45	54-2484 F	ax#
dshaw@alvarezandshaw.com	Contact Person: David	Shaw	
		License Type	Business Status
		Α	Emerging
NOTE: General construction, Site work, Concrete, Asphalt, Concrete, Con	Grading, Excavation,		
Ferandell Tennis Courts, Inc	Phone # (858) 3!	50-3444 F	ax#
manager@ferandelltenniscourts.com	Contact Person: Paul F	erandell	
		License Type	Business Status
		Α	Emerging
		В	Emerging
NOTE: Construction, installation, repair, replace, refurbish, courts (i.e. tennis, basketball, bocce ball, volleyball, petc.) and playgrounds, including fencing, lighting and	pickle ball, shuffleboard,		

KCM Group	Phone # (619) 8	340-2484 Fa	ax#
gkovtun@kcmgroup.net	Contact Person: Gord	on Kovtun	
		License Type	Business Status
		A	Small
		В	Small
NOTE: Construction Management, Construction Project M Services including Litigation Support	lanagement, Consulting		
Kevcon, Inc	Phone # (760)	132-0307 Fa	ax #
kev.kutina@kevcon.us	Contact Person: Kevir	n Kutina	
		License Type	Business Status
		A	Small
		В	Small
		C-27	Small
NOTE: Specializing in government contracting since 1988. national cemeteries, construction, hazardous mate	_		
Montgomery Construction Services, Inc.	Phone # (619) 5	578-2538 Fa	ax # (619) 546-8482
patriciaa@montcsi.com	Contact Person: Cliffo	ord K. Montgomery	1
		License Type	Business Status
		А	Small
		В	Small
		C-12	Small
NOTE: Site demolition, earthwork, structural concrete, ma	asonry, carpentry		
Piperin Corporation	Phone # (760) 3	305-7248 Fa	ax # (760) 305-7253
craig@piperincorp.com	Contact Person: Craig	Barry	
		License Type	Business Status
		A	Emerging
		В	Emerging
NOTE: General Engineering and Building Construction			
Salzano Engineering, Inc.	Phone # (619) 5	593-9592 Fa	ax # (619) 593-9591
Salzanoaccounting@hotmail.com	Contact Person: Felic	a Salzano	
		License Type	Business Status
		A	Small
		C-16	Small
		C-36	Small
		HAZ	Small
NOTE: Install underground sewer, water, storm drains			

		Dhana #	(C10) 01	10.7565	Fav. # /C10\ 010 7505
	/ Constructors, Inc.	Phone #			Fax # (619) 819-7565
Williamf@	Ospeedwayci.com	Contact Person:	Williar	n Forero	
				License Type	Business Status
				В	Small
				Α	Small
Co	e are both a General Building Contractor & General Entractor focusing on commercial, light industrial con a, Caltrans DBE, Suppliers Clearinghouse DBE.	-	ed		
Transtar F	Pipeline, Inc.	Phone #	(858) 45	53-0744	Fax # (858) 453-0745
info@tran	starpipeline.com	Contact Person	Cynthi	a S. Brito	
				License Type	Business Status
				Α	Emerging
NOTE: G	eneral Engineering Contractor				
WG Const	truction, Inc.	Phone #	(619) 40)1-8000	Fax # (619) 749-7186
bill@wgcc	onstructioninc.com	Contact Person:	Williar	n Gwyn	
				License Type	Business Status
				A	Small
NOTE: Tr	enching and excavation for underground utilities				
	238110 Poured Concrete Foundation and Structure	Contractors			
Accent En	gineering and Construction	Phone #	(619) 95	54-4852	Fax # (619) 954-4852
	on@accenteci.com	Contact Person:	Rodne	y Thompson	
				License Type	Business Status
				В	Emerging
				C-10	Emerging
				C-16	Emerging
				C-20	Emerging
				C-36	Emerging
				C-30	
					Emerging
				Α	Emerging
	eneral Contractor: Structural Concrete; Site Concrete tilities; HDD Boring	; Underground			
BC3 Equip	oment, Inc.	Phone #	(619) 31	12-2663	Fax #
bc3equipr	ment@gmail.com	Contact Person:	Benny	Carroll, Jr	
				License Type	Business Status
				Α	Emerging
NOTE: ur	nderground utilities such as water service, irrigation,	fire service, sewe	r,		
INOTE. UI		,			

Black IPO	Phone # (619) 52		(# (619) 527-1698
Wrstemley@aol.com	Contact Person: Wend		5
		License Type Goods/Services	Business Status Small
NOTE: Construction Manager, concrete and rebar		Goods/ Services	Siliali
Brino Builders, Inc	Phone # (619) 22		(#
office@brinobuilders.com	Contact Person: Enriqu		
		License Type	Business Status
		В	Emerging
		C-08	Emerging
NOTE: General Building Contractor			
Concrete Building Systems Construction Company, Inc.	Phone # (760) 73	31-3224 Fax	(# (760) 731-1205
Office@concretebuildingsystemsinc.com	Contact Person: Karen	Chapman-Brown	
		License Type	Business Status
		C-08	Small
		В	Small
NOTE: Concrete Subcontractor			
Cross Construction, Incorporated	Phone # (760) 75	58-3639 Fax	(#
greg@crossconstruction.com	Contact Person: Grego	ry Drakos	
		License Type	Business Status
		В	Emerging
		C-08	Emerging
NOTE: Cross Construction provides general building construction services.	ction, and concrete and		
Crown Concrete Constructors, Inc. dba Cleanline Concrete	Phone # (619) 82	20-4302 Fax	(#
mwccoast@aol.com	Contact Person: Meliss	a W. Cook	
		License Type	Business Status
		C-08	Small
NOTE: Pour and Place Concrete			
Entenman Development Group, Inc.	Phone # (619) 31	17-2868 Fax	< #
office@entenmangroup.com	Contact Person: Anna G	Chaney	
		License Type	Business Status
		Α	Emerging
		В	Emerging

HCCC In		Phone #	(619) 63	21-7923	Fax	#
HSCC, In					1 01	,,
estimatil	ng@hsccbuilders.com	Contact Person	. IVIONIC			Duning and Charles
				License Type		Business Status
				A		Small
				В		Small
				C-08		Small
NOTE: 9	Structural concrete and building services					
Montgo	mery Construction Services, Inc.	Phone #	(619) 57	78-2538	Fax	# (619) 546-8482
patriciaa	@montcsi.com	Contact Person	: Cliffor	d K. Montgom	ery	
				License Type		Business Status
				Α		Small
				В		Small
				C-12		Small
	Site demolition, Earthwork, Structural and Site Concre Masonry, Carpentry	te, Site Grading,				
QSB Con	nstruction	Phone #	(888) 60	00-1748	Fax	# (760) 432-0300
Alicia.lov	wery@qsbconstruction.com	Contact Person	: Alicia	Lowery		
				License Type		Business Status
				В		Small
	General Contractor/Sub-Contractor, we self perform s minor structural concrete	ite concrete and				
REC Truc	cking, Inc. dba AR Concrete	Phone #	(619) 94	16-4638	Fax	# (619) 946-4654
rectruck	ing.inc@gmail.com	Contact Person	: Rafael	Teran		
				License Type		Business Status
				CSD-10		Emerging
				C-08		Emerging
NOTE:	Concrete, Trucking Material and Delivery Services					
YBS Con	struction Engineering	Phone #	(619) 27	71-6122	Fax	# (619) 207-0008
Ybsconci	rete@yahoo.com	Contact Person	: Rodol	fo Sanchez		
				License Type		Business Status
				Α		Emerging
				C-08		Emerging
	Concrete work, ped ramps, sidewalk, curb & gutter, dework	emolition, all cond	crete			, -

238120 Structural Steel and Precast Concrete Contractors

Phone # (619) 271-6122 Fax # (619) 207-0008 **YBS Construction Engineering** Ybsconcrete@yahoo.com Contact Person: Rodolfo Sanchez **License Type Business Status** Α **Emerging** C-08 **Emerging** NOTE: Concrete work, ped ramps, sidewalk, curb & gutter, demolition, all concrete work 238130 Framing Contractors Phone # (619) 540-9618 Fax # Bernal Builders, Inc Bernalbuildersinc@gmail.com Contact Person: Manuel Bernal **License Type Business Status** В **Emerging** NOTE: We specialize in new construction, excavation, concrete, framing, drywall, painting, roofing. Bernal Builders only works with experienced professional license contractors. Briven Construction, Inc. Phone # (760) 295-8819 Fax # Contact Person: Brian Behncke brian@brivenconstructioncompany.com **Business Status License Type** В **Emerging** NOTE: Rough Carpentry Subcontractor 238140 Masonry Contractors Phone # (760) 471-6842 Fax # (760) 471-6178 Dick Miller, Inc. gbullock@dickmillerinc.com Contact Person: Glen Bullock **License Type Business Status** Α Small C-12 Small В Small NOTE: General Engineering Construction: Excavation, Grading, Wet Utilities, Street Improvements, Masonry, Landscape & Irrigation Phone # (760) 877-2391 Fax # Homeland Engineering, Inc. lavigne@homelandengineeringinc.com Contact Person: Jack Robertson **Business Status License Type** Small Α

NOTE: Design-Build Site Retaining Walls

Phone # (858) 668-3463 Fax # (858) 668-3144 Rodney J. Ludwig DBA Ludwig Masonry

rodney@ludwigmasonry.com Contact Person: Rodney J. Ludwig

> **License Type Business Status** C-29 **Emerging**

NOTE: Construction or Retaining Walls, Seat Walls, Stone Veneer, Concrete

Footings, and Brick Paving.

Phone # (619) 207-7569 Fax # Truline Masonry, Inc

trulinemasonry@yahoo.com Contact Person: Daniel Montejano

> **License Type Business Status** C-29 Emerging

NOTE: Masonry Contractor - Installation of Block, Brick and Stone

238190 Other Foundation, Structure, and Building Exterior Contractors

Alvarez and Shaw, Inc Phone # (619) 454-2484 Fax #

dshaw@alvarezandshaw.com Contact Person: David Shaw

> **License Type Business Status** Α **Emerging**

NOTE: General construction, Site work, Concrete, Asphalt, Grading, Excavation, **Potholing**

Phone # (619) 540-9618 Fax # Bernal Builders, Inc

Bernalbuildersinc@gmail.com Contact Person: Manuel Bernal

> **License Type Business Status** В **Emerging**

NOTE: We specialize in new construction, excavation, concrete, framing, drywall, painting, roofing. Bernal Builders only works with experienced professional

license contractors.

238210 Electrical Contractors

Accent Engineering and Construction Phone # (619) 954-4852 Fax # (619) 954-4852

Rthompson@accenteci.com Contact Person: Rodney Thompson

License Type	Business Status
В	Emerging
C-10	Emerging
C-16	Emerging
C-20	Emerging
C-36	Emerging
C-08	Emerging
Α	Emerging

NOTE: General Contractor: Structural Concrete; Site Concrete; Underground

Utilities; HDD Boring

AXL Group, Inc.	Phone # (760)	470-9550	Fax # (760) 470-9550
john@axlco.com	Contact Person: John	n Rillman Bartho	lomew III
		License Type	Business Status
		CSD-12	Small
		A	Small
		В	Small
		C-10	Small
NOTE: Electrical Engineering and Construction			
Buescher Electric, Inc. DBA Service Electrical System	Phone # (858)	748-8478	Fax # (619) 651-1392
Buescherelectric@gmail.com	Contact Person: Anth	nony Buescher	
		License Type	Business Status
		C-10	Emerging
NOTE: Electric installation and repair			
CTE, Inc.	Phone # (619)	733-6791	Fax # (619) 561-7686
reggie@cte-ca.com	Contact Person: Reg	gie Clark	
		License Type	Business Status
		C-10	Emerging
		Α	Emerging
NOTE: All electrical, street lighting, traffic signals			
David H. Knight DBA Knight Power & Electric	Phone # (619)	365-8216	Fax #
dk@knightpowerelectric.com	Contact Person: Davi	id H. Knight	
		License Type	Business Status
		C-10	Emerging
NOTE: Electrical Installation-Commercial, Residential and Inc. Services	dustrial. Electrical		
E & G Electrical Innovations	Phone # (619)	750-3206	Fax #
gerry@egelectricalinnovations.com	Contact Person: Gern	ry Saucedo	
		License Type	Business Status
		C-10	Emerging
NOTE: ELECTRICAL CONSTRUCTION INSTALLATION OF ELECTRICATION OF ELECTRICATI	TRICAL EQUIPMENT,		
H+W Engineering, Inc.	Phone # (619)	659-8234	Fax #
bryan@hwengr.com	Contact Person: Brya	ın Wayne	
		License Type	Business Status
		LICCIISC I Y D	
		E	Emerging

Low Voltage Fire, Inc. DBA Low Voltage Integrated Systems, I	nc. Phone # (760)	598-4110	Fax # (760) 598-4107
info@sdlvis.com	Contact Person: Mich		,
		License Type	Business Status
		C-10	Small
		C-16	Small
NOTE: Fire, Security, Access			
M Carlin Systems, Inc. dba MC Systems	Phone # (619)	270-6206	Fax #
mcarlin@m-c-systems.com	Contact Person: Mich	nael S. Carlin	
		License Type	Business Status
		C-10	Small
NOTE: Low Voltage Contractor - Fire Alarm, Mass Notificatio Intrusion, Emergency Communications	n, Paging, Security,		
Moor Electric, Inc.	Phone # (619)	250-0380	Fax # (619) 955-5381
info@moorelectric-sd.com	Contact Person: Dwa	yne E. Henry	
		License Type	Business Status
		C-10	Emerging
NOTE: Moor Electric specializes in renewable energy. Our te consultations on how to save you money for your how offer various lighting control panels and tips on how to consumption.	me or business. We		
Phoenix Renewable Services, LLC	Phone # (559)	225-5777	Fax #
info@phoenixrs.com	Contact Person: Hass	san Yarpezeshkar	า
		License Type	Business Status
		C-10	Emerging
NOTE: Commercial Solar Systems Operations and Maintenar	nce		
Sattler Solar, Inc.	Phone # (619)	880-0445	Fax #
erik@sattlersolar.com	Contact Person: Erik	Sattler	
		License Type	Business Status
		A	Emerging
		C-10	Emerging

Saturn Electric, Inc.	Phone # (858) 2	71-4100 Fa	ax # (858) 271-0230
tim@saturnelectric.com	Contact Person: Timot	hy A. Dudek	
		License Type	Business Status
		A	Emerging
		В	Emerging
		C-10	Emerging
NOTE: Construction, Full service electrical contractor specia commercial/industrial work, lighting, and distribution	_		
Siege Electric, Inc.	Phone # (619) 6	31-7471 Fa	ax #
info@siege-electric.com	Contact Person: Joshu	a Middleton	
		License Type	Business Status
		C-10	Emerging
NOTE: Electrical and Controls			
SJ Electric	Phone # (619) 3	28-1305 Fa	ax #
sjelectric@cox.net	Contact Person: Samu	el Judd III	
		License Type	Business Status
		C-10	Emerging
NOTE: Electrical contractor who does residential and comm	ercial		
Southwest Traffic Signal Service	Phone # (619) 4	42-3343 Fa	ax # (619) 442-4708
dlebeau@southwestsignal.com	Contact Person: Verno	n B. Cress	
		License Type	Business Status
		А	Small
		В	Small
		C-10	Small
NOTE: Installation and maintenance of traffic signals and str	eet lights		
Sutherlin Contracting, Inc.	Phone # (619) 5	88-8895 Fa	ax # (619) 579-1993
KSuthe4187@aol.com	Contact Person: Kristi	Sutherlin	
		License Type	Business Status
		В	Small
		C-10	Small
NOTE: Electrical construction-installation of traffic signals ar detection, loops and cameras.	nd street lighting, video		

Xpedient Communication, Inc.

Phone # (858) 964-5333

Fax # (858) 964-5335

Dougc@xpdcom.com

Contact Person:

Doug Catania

License Type
Business Status
C-07

Emerging

NOTE: Structured Cabling, Access Control, CCTV, Audio Visual, Avaya Phone
Systems, Intrusion Detection, Wireless Networks

Systems, Intrusion Detection, Wireless Networks	· /		
238220 Plumbing, Heating, and Air-Conditioning C	ontractors		
A-1 Fire Protection, Inc.	Phone # (858) 6	523-2733 Fax	(# (858) 623-2753
jill@a1fpi.com	Contact Person: Jill /Jo	ohn McCarty	
		License Type	Business Status
		C-16	Emerging
NOTE: Fire Sprinkler Installation			
Accent Engineering and Construction	Phone # (619) 9)54-4852 Fax	(# (619) 954-4852
Rthompson@accenteci.com	Contact Person: Rodn	ey Thompson	
		License Type	Business Status
		В	Emerging
		C-10	Emerging
		C-16	Emerging
		C-20	Emerging
		C-36	Emerging
		C-08	Emerging
		A	Emerging
NOTE: General Contractor: Structural Concrete; Site Concret Utilities; HDD Boring	e; Underground		
Aguirre Plumbing Systems, Inc.	Phone # (619) 7	'88-6854 Fax	(#
oliviaaguirre@aguirreplumbingsystems.com	Contact Person: Aleja	ndro Congzon Aguir	re
		License Type	Business Status
		C-36	Small
NOTE: Plumbing subcontractor (Commercial, ground up, ten construction)	ant improvement, new		

Ahrens Mechanical	Phone # (619)	187-9036 Fa:	x # (619) 487-9195
Estimating@ahrensmech.com	Contact Person: Greg	Ahrens	
		License Type	Business Status
		Α	Small
		В	Small
		C-10	Small
		C-16	Small
		C-20	Small
		C-34	Small
		C-46	Small
		C-04	Small
		C-36	Small
		М	Small
NOTE: Construction, Water-Pretreatment, Mechanical Engin	eering and Cost		
H+W Engineering, Inc.	Phone # (619)	559-8234 Fa:	x #
bryan@hwengr.com	Contact Person: Brya	n Wayne	
		License Type	Business Status
		E	Emerging
		M	Emerging
NOTE: Mechanical, Electrical, Plumbing, and Lighting Consul	ting Engineers		
Ivey Engineering, Inc	Phone # (858)	587-2874 Fa:	× # (858) 587-6749
wivey@iveyengineering.com	Contact Person: Willi	am Ivey	
		License Type	Business Status
		В	Small
		C-20	Small
		C-36	Small
		M	Small
NOTE: Performs forensic engineering, building system design Specializes in HVAC, plumbing, fire and life safety, fire refrigeration, building code analysis.			

jeffshaposhnick@cox.net Contact Person: License Type Business Status A Small B Small C-20 Small C-36 Small C-46 Small C-46 Small NOTE: Plumbing, Mechanical, Site Utilities McKinney Contracting, Inc. jason@mckinneycontracting.com Phone # (619) 606-2009 Fax # Contact Person: License Type Business Status B Emerging C-33 Emerging
A Small B Small C-20 Small C-36 Small C-46 Small C-46 Small NOTE: Plumbing, Mechanical, Site Utilities McKinney Contracting, Inc. Phone # (619) 606-2009 Fax # jason@mckinneycontracting.com Contact Person: Jason McKinney License Type Business Status B Emerging
B Small C-20 Small C-36 Small C-46 Small NOTE: Plumbing, Mechanical, Site Utilities McKinney Contracting, Inc. phone # (619) 606-2009 Fax # jason@mckinneycontracting.com Contact Person: Jason McKinney License Type Business Status B Emerging
C-20 Small C-36 Small C-46 Small NOTE: Plumbing, Mechanical, Site Utilities McKinney Contracting, Inc. Phone # (619) 606-2009 Fax # jason@mckinneycontracting.com Contact Person: Jason McKinney License Type Business Status B Emerging
C-36 Small C-46 Small NOTE: Plumbing, Mechanical, Site Utilities McKinney Contracting, Inc. Phone # (619) 606-2009 Fax # jason@mckinneycontracting.com Contact Person: Jason McKinney License Type Business Status B Emerging
NOTE: Plumbing, Mechanical, Site Utilities McKinney Contracting, Inc. jason@mckinneycontracting.com C-46 Small Phone # (619) 606-2009 Fax # Contact Person: Jason McKinney License Type Business Status B Emerging
NOTE: Plumbing, Mechanical, Site Utilities McKinney Contracting, Inc. jason@mckinneycontracting.com Contact Person: License Type Business Status B Emerging
McKinney Contracting, Inc. Phone # (619) 606-2009 Fax # jason@mckinneycontracting.com Contact Person: License Type Business Status B Emerging
jason@mckinneycontracting.com Contact Person: Jason McKinney License Type Business Status B Emerging
License Type Business Status B Emerging
B Emerging
C-33 Emerging
D-38 Emerging
NOTE: GENERAL BUILDING CONTRACTOR, SAND AND WATER BLASTING, PAINTING AND DECORATING
Mech One, Inc. Phone # (760) 260-8121 Fax # (760) 888-1942
tony@mechoneinc.com Contact Person: Anthony (Tony) Geist
License Type Business Status
C-20 Small
NOTE: Heating, Ventilating, Air Conditioning
Pro Link Engineering, Inc. DBA Pro Link Back Flow Services Phone # (619) 659-8995 Fax # (619) 659-5761
office@prolinkenginnering.net Contact Person: Jed Spicer
License Type Business Status
A Small
NOTE: Pipe Trade
Ranbar Plumbing Contractors, Inc Phone # (619) 561-3337 Fax #
Ranbar Plumbing Contractors, Inc Phone # (619) 561-3337 Fax # MEGAN@RANBAR.NET Contact Person: Megan Willis
MEGAN@RANBAR.NET Contact Person: Megan Willis
MEGAN@RANBAR.NET Contact Person: Megan Willis License Type Business Status

Scott Michael, Inc.	Phone # 1	(760) 744-2807	Fax # (760) 744-2837
scottmichaelinc@sbcglobal.net		Scott Zytkewicz	Tax II (700) 711 2007
scottimendeline@ssegiosamiet	contact i cisoni	License Type A C-36	Business Status Emerging Emerging
NOTE: Plumbing and Engineering Construction			
238290 Other Building Equipment Contractors			
DLG Contractors, Inc.	Phone #	(619) 456-2992	Fax # (619) 456-2994
bryan.dlgcontractors@gmail.com		David Lynn Grant	,
,		License Type	Business Status
		A	Emerging
		В	Emerging
		C-10	Emerging
		C-33	Emerging
		C-08	Emerging
		C-09	Emerging
		D-12	Emerging
		D-34	Emerging
		HAZ	Emerging
NOTE: Commercial and Industrial Specialty Construction			
Southwest Entrances, Inc	Phone #	(888) 793-6879	Fax #
linda@southwestentrances.com	Contact Person:	Linda Fritz	
		License Type	Business Status
		D-28	Emerging
NOTE: Commercial Automatic & Manual Pedestrian Doors &	Hardware		
238310 Drywall and Insulation Contractors			
Wesco Construction	Phone #	(760) 805-4250	Fax #
CONTROLLER@WESCO-CONSTRUCTION.COM	Contact Person:	Welsey James Taita	no
		License Type	Business Status
		В	Emerging
NOTE: General Building Contractor			
238320 Painting and Wall Covering Contractors			
California Paint Experts, Inc. DBA San Diego Paint Pros	Phone #	(619) 816-1944	Fax #
casey@sandiegopaintpros.com	Contact Person:	Casey Ligrano	
		License Type	Business Status
		C-33	Emerging
NOTE: Painting, Wall Coverings, Staining, Maintenance			

DLG Contractors, Inc.	Phone # (619) 4	156-2992	Fax # (619) 456-2994
bryan.dlgcontractors@gmail.com	Contact Person: David		, ,
, c		License Type	Business Status
		A	Emerging
		В	Emerging
		C-10	Emerging
		C-33	Emerging
		C-08	Emerging
		C-09	Emerging
		D-12	Emerging
		D-34	Emerging
		HAZ	Emerging
NOTE: Commercial and Industrial Specialty Construction			
McKinney Contracting, Inc.	Phone # (619)	506-2009	Fax #
jason@mckinneycontracting.com	Contact Person: Jason	n McKinney	
		License Type	Business Status
		В	Emerging
		C-33	Emerging
		D-38	Emerging
NOTE: GENERAL BUILDING CONTRACTOR, SAND AND WATER AND DECORATING	R BLASTING, PAINTING		
Wesco Construction	Phone # (760) 8	305-4250	Fax #
CONTROLLER@WESCO-CONSTRUCTION.COM	Contact Person: Wels	ey James Taitan	0
		License Type	Business Status
		В	Emerging
NOTE: General Building Contractor			
238330 Flooring Contractors			
Hasenin Enterprise, LLC. DBA Star Flooring & Remodeling	Phone # (619) 2	282-4000	Fax # (619) 282-4001
Salam@starcarpetinc.com	Contact Person: Salar	n Hasenin	
		License Type	Business Status
		В	Emerging
		C-15	Emerging
		C-54	Emerging
NOTE: We sell, install, clean, and reapir all types of flooring i also 24/7 emergency water damage mitigation service	-		

Western Flooring, Inc.

Phone # (858) 560-5557 Fax # (858) 560-5558

Duane@western-flooring.com

Contact Person:

Duane Johnson

License Type Business Status

C-15 Emerging

NOTE: Install, sand, finish, coat, screen commercial and residential all types of wood, gym, and dance flooring.

238340 Tile and Terrazzo Contractors

Hasenin Enterprise, LLC. DBA Star Flooring & Remodeling

Phone # (619) 282-4000

Fax # (619) 282-4001

Salam@starcarpetinc.com

Contact Person:

Salam Hasenin

License Type
Business Status
B
Emerging
C-15
Emerging
C-54

Emerging

NOTE:
We sell, install, clean, and reapir all types of flooring inlcuding stone. We are also 24/7 emergency water damage mitigation service.

Phone # (619) 781-8160

Fax #

238350 Finish Carpentry Contractors

Arce Custom Cabinets Inc.

Arce Custom Cabinets, inc.	7 Holle # (013) 78	31-0100 Tax	π	
lili@arcecabinets.com	Contact Person: Liliana	Arce		
		License Type	Business Status	
		C-06	Emerging	
NOTE: Fabricate & install: cabinets, solid surface, countertor plastic laminate, wood doors, wood trims, casework, woodwork, shower panels	•			
Brino Builders, Inc	Phone # (619) 22	27-9205 Fax	#	
office@brinobuilders.com	Contact Person: Enrique Valez, Jr			
		License Type	Business Status	
		В	Emerging	
		C-08	Emerging	
NOTE: General Building Contractor				

238390 Other Building Finishing Contractors

Custom	Interiors by Yigael, Inc.	Phone #	(760) 63	5-0369	Fax #	(760) 635-3921
Yigaelsp	iro@sbcglobal.net	Contact Person	: Yigael	Spiro		
				License Type		Business Status
				D-52		Emerging
	Window Coverings: Shades, Blinds, Draperies, as well as and Tracks (motorized and manual)	s Cubical Draper	ies			

DIC Control to the last	Phono # 16	510\ 45	c 2002	Fov.# (610) 4F6	2004
DLG Contractors, Inc.	Phone # (6			Fax # (619) 456-2	2994
bryan.dlgcontractors@gmail.com	Contact Person:	David		D	
			License Type A	Business Sta	atus
			В	Emerging Emerging	
			C-10	Emerging	
			C-33	Emerging	
			C-08	Emerging	
			C-09	Emerging	
			D-12	Emerging	
			D-34	Emerging	
			HAZ	Emerging	
NOTE: Commercial and Industrial Specialty Construction					
238910 Site Preparation Contractors					
A.B. Hashmi, Inc.	Phone # (7	760) 67	2-8059	Fax # (858) 433-	7215
info@abhashmi.com	Contact Person:			, ,	
	Contact i croom	7	License Type	Business Sta	atus
			A	Emerging	utus
			C-27	Emerging	
NOTE: Engineering & Landscaping Contractor. Concrete flautilities, paving, drainage, landscaping & irrigation	itwork, underground				
Bert W. Salas, Inc.	Phone # (6	519) 56	2-7711	Fax # (619) 258-3	3515
bsalaz@bertsalasinc.com	Contact Person:	Bob E.	Salaz		
			License Type	Business Sta	atus
			Α	Small	
NOTE: Grading, flood control, water, sewer and storm drai	n construction.				
Carroll General Engineering, Inc.	Phone # (9	916) 95	5-5916	Fax #	
derekc@carrollge.com	Contact Person:	Derek	Carroll		
			License Type	Business Sta	atus
			A	Small	
NOTE: Engineering contractor that specializes in SWPPP, Engineering construction	rosion Control, and				
Cats Excavating, Inc.	Phone # (6	519) 26	4-4125	Fax # (619) 264-	7566
catsexcavatinginc@yahoo.com	Contact Person:	Stephe	n H. Groves		
			License Type	Business Sta	atus
			C-12	Emerging	
NOTE: Grading					

Dick Miller, Inc.	Phone # (760) 4	71-6842	Fax # (760) 471-6178
gbullock@dickmillerinc.com	Contact Person: Glen	Bullock	
		License Type	Business Status
		A	Small
		C-12	Small
		В	Small
NOTE: General Engineering Construction: Excavation, Gradin Improvements, Masonry, Landscape & Irrigation	ng, Wet Utilities, Street		
	Phono # (C10) 3	17 2000	Fov #
Entenman Development Group, Inc.	Phone # (619) 3		Fax #
office@entenmangroup.com	Contact Person: Anna		
		License Type	Business Status
		A	Emerging
		В	Emerging
NOTE:			
Hankins Construction, Inc.	Phone # (760) 7	/89-4343	Fax #
pavnldy@hankinsconstruction.com	Contact Person: Debo	rah A. Hankins	
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		License Type	Business Status
		A	Emerging
NOTE: Grading, Paving, Seal Coating, Concrete - New, repair	s or maintenance		
Johnston Tractor, Inc.	Phone # (619) 7	22-7505	Fax # (619) 722-1880
johnstontractorinc@gmail.com	Contact Person: Willia		
joinisteria determine gindineem	Contact Ferson Conne	License Type	Business Status
		C-12	Emerging
		A	Emerging
NOTE: Erath Moving, Excavating, and Grading		, , , , , , , , , , , , , , , , , , ,	Ziliei Bili B
Liath Moving, Excavating, and Grading			
Jose Rolon dba DeRollo Pipeline	Phone # (760) 6	523-8725	Fax #
jose@derollopipeline.com	Contact Person: Jose I	Rolon	
		License Type	Business Status
		Α	Emerging
NOTE: Sewer & Storm Drain, utilities installation.			
	Phone # (619) 9	22-9185	Fax # (619) 566-4306
Kendrick Excavating, Inc.			
Kendrick Excavating, Inc. audrev@kendrick-sd.com	Contact Person: Audro	ev Kendrick	
Kendrick Excavating, Inc. audrey@kendrick-sd.com	Contact Person: Audro		Rucinoss Status
	Contact Person: Audro	License Type	Business Status
			Business Status Small

Montano Pipeline, Inc.	Phone # (619) 8:	38-6848 Fa	x #
marketing@montanopipeline.com	Contact Person: Jose N	/lontano	
		License Type	Business Status
		Α	Emerging
		C-34	Emerging
NOTE: Heavy Civil General Contractor			
P. Teixeira Construction, Inc.	Phone # (619) 44	43-3703 Fa	x # (619) 443-3352
jmp@teixeira.sdcoxmail.com	Contact Person: Philip	Teixeira	
		License Type	Business Status
		Α	Emerging
		В	Emerging
NOTE: Demolition and earthwork subcontractor.			
Pratt Equipment Corp.	Phone # (760) 3	10-9095 Fa	x #
prattequipcorp@aol.com	Contact Person: Brian	Pratt	
		License Type	Business Status
		А	Small
NOTE: Grading			
WG Construction, Inc.	Phone # (619) 4	01-8000 Fa	× # (619) 749-7186
bill@wgconstructioninc.com	Contact Person: Willia	m Gwyn	
		License Type	Business Status
		Α	Small
NOTE: Trenching and excavation for underground utilities			
238990 All Other Specialty Trade Contractors			
3Sixty Innovation, Inc.	Phone # (858) 30	04-1093 Fax	x #
info@3sixtyinnovation.com	Contact Person: Moha	mad (Mike) Ismiea	ıl Muhsin
		License Type	Business Status
		Α	Emerging
		В	Emerging
NOTE: General Construction			
Accurate Asphalt & Concrete, Inc.	Phone # (619) 30	03-1829 Fa	x #
admin@Accurate-ac.com	Contact Person: Deacc	on Markey	
		License Type	Business Status
		А	Emerging
NOTE: Cast-In-Place Concrete, Asphaltic Paving, Striping			

Cecilia's Safety Services, Inc.	Phone # (858) 79	3-4465	Fax # (858) 793-4495
accounting@ceciliassafetyservice.com	Contact Person:	Cecilia	Katheleen Ost	lund
			License Type C-31 D-42	Business Status Small Small
NOTE: Traffic Control company providing traffic control plans and labor throughout San Diego County.	, rental equipment			
Chris Marquart DBA Code 3 Media	Phone # (760) 62	1-3930	Fax #
chris@mediamarq.com	Contact Person:	Chris N	/larquart	
			License Type Goods/Service	Business Status es Emerging
NOTE: Aerial and Ground Photo, Video, Data, Reconnaissance	e, 2D/3D mapping			
DLG Contractors, Inc.	Phone # (619) 45	6-2992	Fax # (619) 456-2994
bryan.dlgcontractors@gmail.com	Contact Person:	David I	ynn Grant	
			License Type	Business Status
			Α	Emerging
			В	Emerging
			C-10	Emerging
			C-33	Emerging
			C-08	Emerging
			C-09	Emerging
			D-12	Emerging
			D-34	Emerging
			HAZ	Emerging
NOTE: Commercial and Industrial Specialty Construction				
Entenman Development Group, Inc.	Phone # (619) 31	7-2868	Fax #
office@entenmangroup.com	Contact Person:	Anna C	Chaney	
			License Type	Business Status
			Α	Emerging
			В	Emerging
NOTE:				
Frank and Son Paving, Inc.	Phone # (619) 42	2-8322	Fax # (619) 420-902
	Contact Borcon	Alicia T	. Vasquez	
franknsonpaving@yahoo.com	Contact Person.			
	Contact Person.		License Type	Business Status
	Contact Person.		License Type C-12	Business Status Small
	Contact Person.			Small Small

Hankins Construction, Inc.	Phone # (760) 789-4	.343 Fax #
pavnldy@hankinsconstruction.com	Contact Person: Deborah	
pavilidy@nankinsconstruction.com		
	A	Emerging Business Status
NOTE: Grading, Paving, Seal Coating, Concrete - New, rep		Linerging
In-Line Fence & Railing Company, Inc DBA In-Line Construc		` '
gary@inlinerail.com	Contact Person: David Ort	
		cense Type Business Status
	C-	
	C-:	
	C-	51 Small
NOTE: All types of Fencing, Handrails, Guardrails		
Jose Rolon dba DeRollo Pipeline	Phone # (760) 623-8	3725 Fax #
jose@derollopipeline.com	Contact Person: Jose Rolon	n
	Lic	cense Type Business Status
	А	Emerging
NOTE: Sewer & Storm Drain, utilities installation.		
Kevcon, Inc	Phone # (760) 432-0	307 Fax #
kev.kutina@kevcon.us	Contact Person: Kevin Kuti	ina
	Lic	cense Type Business Status
	A	Small
	В	Small
	C-	27 Small
NOTE: Specializing in government contracting since 1988 national cemeteries, construction, hazardous mate		
Montano Pipeline, Inc.	Phone # (619) 838-6	5848 Fax #
marketing@montanopipeline.com	Contact Person: Jose Mon	tano
	Lic	cense Type Business Status
	А	Emerging
	C-	34 Emerging
NOTE: Heavy Civil General Contractor		
Payneco Specialties, Inc. DBA Payco Specialties	Phone # (619) 422-9	Pax # (619) 427-1620
marci@payco.biz	Contact Person: Rebecca L	lewellyn
		cense Type Business Status
	C-:	, ,
	В	Small
NOTE: Specialty Construction		
1 ,		

Quality Construction & Engineering, Inc.	Phone # (858) 21	15-2692 Fa	ax # (858) 408-2882		
qualitycengineering@gmail.com	Contact Person: Mohammad Qahoush				
		License Type	Business Status		
		Α	Small		
		В	Small		
NOTE: AC Paving, Site Concrete & Underground Utilities. Build	ding Construction				
R. Montanez Contracting, Inc. DBA Dr. Demo	Phone # (619) 42	20-3366 Fa	ax # (619) 422-7564		
Drdemo@att.net	Contact Person: Ricky I	D. Montanez			
		License Type	Business Status		
		C-21	Emerging		
NOTE: Specialty Construction					
Western State Builders, Inc.	Phone # (760) 27	70-8639 Fa	ax #		
julian@westernstatebuilder.com	Contact Person: Julian	Moen			
		License Type	Business Status		
		Α	Emerging		
		В	Emerging		
		D-34	Emerging		
NOTE: Playground and Fitness Installation, Park and Rec					
Zasueta Contracting, Inc.	Phone # (619) 58	39-0609 Fa	ax # (619) 697-6031		
azplaygrounds@cox.net	Contact Person: Andre	w E. Zasueta			
		License Type	Business Status		
		Α	Small		
		D-34	Small		
		В	Small		
NOTE: Playground equipment installation, shade structure installated site work	stallation, and all				
314120 Curtain and Linen Mills					
Custom Interiors by Yigael, Inc.	Phone # (760) 63	35-0369 Fa	ax # (760) 635-3921		
Yigaelspiro@sbcglobal.net	Contact Person: Yigael	Spiro			
		License Type	Business Status		
		D-52	Emerging		
NOTE: Window Coverings: Shades, Blinds, Draperies, as well a and Tracks (motorized and manual)	as Cubical Draperies				

323111 Commercial Gravure Printing

Contro	l C, Inc. DBA Replica Printing Services	Phone # (85	58) 549	9-5380	Fax	# (858) 549-5379
Ryan@	replicaprinting.com	Contact Person: R	Ryan St	tevens		
				License Type		Business Status
				Goods/Service	es	Emerging
NOTE:	Digital printing, copying, scanning, reprographic and binding, lamination, and mounting)	d finishing services (i.e.				
Linh Ph	nan Wong DBA Phantastic Design	Phone # (61	19) 253	3-4222	Fax	# (858) 486-1410
Lwong	@phantasticdesign.com	Contact Person: L	inh Ph	an Wong		
				License Type		Business Status
				Goods/Service	es	Emerging
NOTE:	Graphic Design and printing					
	323115 Digital Printing					
Contro	l C, Inc. DBA Replica Printing Services	Phone # (85	58) 549	9-5380	Fax	# (858) 549-5379
Ryan@	replicaprinting.com	Contact Person: R	Ryan St	tevens		
				License Type		Business Status
				Goods/Service	es	Emerging
NOTE:	Digital printing, copying, scanning, reprographic and binding, lamination, and mounting)	d finishing services (i.e.				
	323122 Prepress Services					
Contro	l C, Inc. DBA Replica Printing Services	Phone # (85	58) 549	9-5380	Fax	# (858) 549-5379

Contro	ol C, Inc. DBA Replica Printing Services	Phone #	(858) 54	19-5380 F	-ax #	(858) 549-5379		
Ryan@	Preplicaprinting.com	Contact Person	: Ryan S	lyan Stevens				
				License Type	ı	Business Status		
				Goods/Service	s l	Emerging		
NOTE:	Digital printing, copying, scanning, reprographic and f binding, lamination, and mounting)	finishing services (i	.e.					

332322 Sheet Metal Work Manufacturing

San Diego Sheet Metal, Inc	Phone # (619) 777-8757 Fax #					
boris@sandiegosheetmetal.net	Contact Person:	Boris l	ris Uralets			
			License Type		Business Status	
			C-43		Emerging	
NOTE: Architectural sheet metal fabrication and installation						

332323 Ornamental and Architectural Metal Work Manufacturing

In-Line	Fence & Railing Company, Inc DBA In-Line Construction	n, Inc Ph	one#	(760) 78	39-0282 Fa	x # (760) 789-1915
gary@i	nlinerail.com	Contact	Person	: David	Ortiz	
					License Type	Business Status
					C-13	Small
					C-31	Small
					C-51	Small
NOTE:	All types of Fencing, Handrails, Guardrails					
	337110 Wood Kitchen Cabinet and Countertop Ma	nufacturin	g			
Arce Cu	ustom Cabinets, Inc.	Ph	one#	(619) 78	31-8160 Fa	ıx #
lili@arc	ecabinets.com	Contact	Person	Liliana	Arce	
					License Type	Business Status
					C-06	Emerging
NOTE:	Fabricate & install: cabinets, solid surface, countertop plastic laminate, wood doors, wood trims, casework, woodwork, shower panels	_				
	337212 Custom Architectural Woodwork and Milly	work Manu	ıfacturi	ing		
Arce Cu	ustom Cabinets, Inc.	Ph	one #	(619) 78	31-8160 Fa	ıx #
lili@arc	ecabinets.com	Contact	Person	: Liliana	Arce	
					License Type	Business Status
					C-06	Emerging
NOTE:	Fabricate & install: cabinets, solid surface, countertop plastic laminate, wood doors, wood trims, casework, woodwork, shower panels					

423210 Furniture Merchant Wholesalers

B & C Furniture Solutions DBA B & C Office Interiors	Phone # (8	858) 54	9-3735	Fax :	# (619) 330-2670
carlos@bcfurn.com	Contact Person:	Carlos	Arzola		
			License Type		Business Status
			Goods/Service	es	Small
NOTE: BROKER - ELIGIBLE FOR FEES ONLY. Commercial furni services, labor, design, move, project management, service dealership.	•				

423390 Other Construction Material Merchant Wholesalers

CLN Services, LLC	Phone # (6	519) 52	0-1197 Fax	#		
pstevens.nhasf@cox.net	Contact Person:	Paul Stevens				
			License Type	Business Status		
			Goods/Services	Small		
NOTE: BROKER CREDIT ONLY - Supply construction materials	and consulting					

423410 Photographic Equipment and Supplies Merchant Wholesalers

Paul Astwood DBA PRA International

Phone # (619) 229-1990

Paul Astwood

Contact Person:

Paul Astwood

License Type
Business Status
No License

Small

NOTE: In business since 1992 PRA International is a small Value Added Reseller serving the SMB, corporate, education, and public sectors.

423420 Office Equipment Merchant Wholesalers

Paul Astwood DBA PRA International

Phone # (619) 229-1990

Fax # (425) 920-8960

Contact Person:

Paul Astwood

License Type
Business Status
No License

Small

NOTE: In business since 1992 PRA International is a small Value Added Reseller serving the SMB, corporate, education, and public sectors.

423430 Computer and Computer Peripheral Equipment and Software Merchant Wholesalers

Worksters, Inc.

ania@worksters.com

Contact Person:

Ania Kaminska

License Type
Business Status
No License

No License

Emerging

NOTE:

Worksters was founded in 2011 to provide superior technology and products to the United States government. Our competencies are centered in three areas: data collection and analytics, enterprise IT, and software engineering.

423510 Metal Service Centers and Other Metal Merchant Wholesalers

SPECS Civil Solutions, Inc DBA SPECS

aernst@specscivilsolutions.com

Contact Person:

Amanda Ernst

License Type
Business Status
Goods/Services

Emerging

NOTE:

Structural design of bridges, large culverts, tunnels and retaining walls.
BROKER CREDIT ONLY for SUPPLIES: SPECS also supplies prefabricated bridge components, such as precast concrete three-sided arch structures, prefabricated steel truss bridges, cor

423720 Plumbing and Heating Equipment and Supplies (Hydronics) Merchant Wholesalers

California Environmental Consulting, LLC dba Municipal Sewer Tools Phone # (442) 224-8726 Fax #

sales@municipalsewertools.com

Contact Person: Victoria Fellows Rebozo

License Type Business Status

No License Emerging

NOTE: Supply sewer & stormwater pipe cleaning supplies

423830 Industrial Machinery and Equipment Merchant Wholesalers

Clarvan, Inc DBA Industrial Maintenance Supply

Clarkecaines@imsbolt.com

Contact Person:

Clarke Caines

License Type
Business Status
No License
Emerging

NOTE:

BROKER CREDIT ONLY...Industrial Maintenance Supply was established in
1999 and is a leading distributor of industrial supplies, maintenance, repair
and operations (MRO) equipment, tools and materials. With access to over
900,000 industrial supply product

423990 Other Miscellaneous Durable Goods Merchant Wholesalers

SPECS Civil Solutions, Inc DBA SPECS

aernst@specscivilsolutions.com

Contact Person:

Amanda Ernst

License Type
Business Status
Goods/Services

Emerging

NOTE:

Structural design of bridges, large culverts, tunnels and retaining walls.
BROKER CREDIT ONLY for SUPPLIES: SPECS also supplies prefabricated bridge components, such as precast concrete three-sided arch structures, prefabricated steel truss bridges, cor

424720 Petroleum and Petroleum Products Merchant Wholesalers (except Bulk Stations and Terminals)

Semper Fuel, LLC

Phone # (310) 600-0330 Fax #

ca@semperfuel.com

Contact Person: Charles Adams

License Type Business Status

Goods/Services Small

NOTE: Retail Fuel and Petroleum Products

425120 Wholesale Trade Agents and Brokers

B & C Furniture Solutions DBA B & C Office Interiors

Phone # (858) 549-3735

Fax # (619) 330-2670

Carlos@bcfurn.com

Carlos Arzola

License Type

Business Status

Goods/Services

Small

NOTE:

BROKER - ELIGIBLE FOR FEES ONLY. Commercial furniture dealership with services, labor, design, move, project management, space planning, full-service dealership.

444110 Home Centers

Clarvan, Inc DBA Industrial Maintenance Supply

Clarkecaines@imsbolt.com

Contact Person:

Clarke Caines

License Type

Business Status

No License

Emerging

NOTE:

Industrial Maintenance Supply was established in 1999 and is a leading distributor of industrial supplies, maintenance, repair and operations (MRO) equipment, tools and materials. With access to over 900,000 industrial supply products we provide maintena

444190 Other Building Material Dealers

Clarvar	n, Inc DBA Industrial Maintenance Supply	Phone #	(760) 92	29-0418	Fax #	
clarkec	aines@imsbolt.com	Contact Person	: Clarke	Caines		
				License Type No License	Business S Emerging	Status
NOTE:	Industrial Maintenance Supply was established in 1999 distributor of industrial supplies, maintenance, repair equipment, tools and materials. With access to over Supply products we provide maintena	and operations (N	-			
J&E So	CAL Supply, Inc	Phone #	(858) 45	51-4661	Fax #	
jmitche	ell@jesocalsupply.com	Contact Person	: John-F	aul Mitchell		
				License Type	Business S	Status
				Goods/Service	es Small	
NOTE:	BROKER CREDIT ONLYWe are a DVBE certified online construction material, supplies and equipment.	ne reseller of				

451110 Sporting Goods Stores

House of Scuba, Inc.	Phone # (858)	hone # (858) 581-2800 Fax #			
HOSGovSales@gmail.com	Contact Person: Jaso	on Bradshaw			
		License Type	Business Status		
		No License	Small		
NOTE: Scuba Diving and Camping related equipment					

453920 Art Dealers

McClean Photography, LLC	Phone # (90	07) 738-6789 Fax #				
brian@mccleanphotography.com	Contact Person: B	Brian N	n McClean			
			License Type	Business Status		
			Goods/Services	Emerging		
NOTE: Fine Art Gallery						

484110 General Freight Trucking, Local

	Alvarez Trucking, LLC	Phone # (619) 921-9330 Fax #						
	alvareztruckingllc@yahoo.com	Contact Person:	Daniel	el Alvarez				
				License Type	Business Status			
				Goods/Services	Emerging			
ı	NOTE: Gravel hauling and Sand hauling							

Phone # (619) 820-9778 Fax # Cavlina Trucking, LLC cavlinatrucking@yahoo.com Contact Person: Ante Cavlina **License Type Business Status** Goods/Services **Emerging** NOTE: Super 10 dump trucks, hauling construction debris, aggregate, and material Phone # (619) 258-9778 Fax # J. McBride Trucking Services, Inc. imtsi@cox.net Contact Person: Jacqueline McBride **Business Status License Type** Goods/Services Small NOTE: Rental of Construction Dump Trucks, water trucks, flat bed trucks Phone # (619) 748-0197 Fax # JRMAX, Inc DBA JR Max Trucking Contact Person: Geraldo Gonzalez jrmaxtrucking@gmail.com **Business Status License Type** Goods/Services Emerging **NOTE:** Transportation of construction materials Phone # (619) 442-9328 Fax # (619) 442-4928 McLeod Trucking McLeodtrucking@gmail.com Contact Person: Ruth McLeod **License Type Business Status** Goods/Services Small **NOTE:** Trucking Phone # (619) 946-4638 Fax # (619) 946-4654 REC Trucking, Inc. dba AR Concrete rectrucking.inc@gmail.com Contact Person: Rafael Teran **License Type Business Status CSD-10 Emerging** C - 08**Emerging** NOTE: Concrete, Trucking Material and Delivery Services Susanne Ambler DBA RAT Sand and Materials Phone # (858) 483-4426 Fax # Contact Person: Susanne Ambler ratsand@gmail.com **License Type Business Status** Goods/Services Small NOTE: Trucking: Aggregates, Dirt, Demo, Equipment transport Phone # (619) 909-1499 Fax # Westruck Services, Inc. jose1718.gon@gmail.com Contact Person: Jose Rosario Arias **License Type Business Status** Goods/Services **Emerging NOTE:** Dump Truck

YBS Construction Engineering Phone # (619) 271-6122 Fax # (619) 207-0008

Ybsconcrete@yahoo.com Contact Person: Rodolfo Sanchez

A Emerging
C-08 Emerging

NOTE: Concrete work, ped ramps, sidewalk, curb & gutter, demolition, all concrete

work

484220 Specialized Freight (except Used Goods) Trucking, Local

A.L.A Millas Trucking, Inc.

Phone # (619) 869-7606 Fax #

anthony.alamilla@yahoo.com Contact Person: Anthony Alamilla

License Type Business Status
Goods/Services Emerging

NOTE: Local dump trucking (e.g., gravel, sand, top-soil)

AP Navarro Transport Corporation Phone # (619) 616-8668 Fax #

apnavarrotransportcorp@gmail.com Contact Person: Armando Navarro

License Type Business Status
Goods/Services Emerging

NOTE: Hauling fill dirt, sand, gravel, concrete, asphalt, sod and brush to and from your job site. We can deliver your load to a site you own or a local dump site.

K Company Phone # (760) 525-8416 Fax # (760) 525-8416

daleatkco@gmail.com Contact Person: Dale W. Kissinger

License Type Business Status
C-12 Emerging

NOTE: Haul aggregrate material to job sites and broker construction trucks.

La Ezperanza Trucking, Inc Phone # (619) 471-5179 Fax #

juancarlosguzman1966@gmail.com Contact Person: Juan Carlos Guzman

License Type Business Status
Goods/Services Emerging

NOTE: we specialize in hauling fill dirt, sand, gravel, concrete, asphalt, sod and brush to and from your job site. We can deliver your load to a site you own or a local dump site.

M.H. Hoffman Trucking, Inc. Phone # (619) 559-4559 Fax # (619) 656-7913

Mhhoffmantrucking@gmail.com Contact Person: Mark H. Hoffman

License Type Business Status
Goods/Services Emerging

NOTE: TRUCKING ONLY - Dump Truck Service with Operator

Phone # (619) 864-2013 Fax # PG & Sons Trucking, Inc. pgnsonstrucking@gmail.com Contact Person: Pedro Guardado, Jr. **License Type Business Status** Goods/Services Emerging NOTE: Aggregate Material Hauling Phone # (619) 990-9106 Fax # S. Jauregui Trucking sergiojauregui77@hotmail.com Contact Person: Sergio Jauregui Caravantes **Business Status License Type** Goods/Services **Emerging** NOTE: Dump Trucking; Aggregate Material Hauling 488490 Other Support Activities for Road Transportation Phone # (619) 440-6193 Fax # (619) 440-5160 Two Oaks Sweeping LLC DBA Day & Night Power Sweeping warren@sandiegosweeper.com Contact Person: Warren Levy **Business Status License Type** Goods/Services **Emerging** NOTE: Street Sweeping and Pressure Washing 511210 Software Publishers Phone # (650) 292-0331 Fax # LiteScape Technologies Inc. aleksey.feldman@litescape.com Contact Person: Aleksey Feldman **Business Status License Type** Goods/Services Emerging NOTE: Enterprise Software for Voice over IP devices and distributor of telephone enclosures, IP speakers, Secure control devices such as RFID/BIO readers. 512110 Motion Picture and Video Production Fax # (619) 442-0045 Phone # (619) 889-8368 R. Christopher Hinman DBA Video Fact Documentation Services Chris@videofact.net Contact Person: R. Christopher Hinman **License Type Business Status** Goods/Services **Emerging** NOTE: Pre-Post construction documentation by audio video or photography. 518210 Data Processing, Hosting, and Related Services Analytica Consulting, LLC Phone # (858) 272-8260 Fax # steverimar@analyticaconsulting.com Contact Person: Steven Vincent Rimar **Business Status License Type** Goods/Services Small NOTE: Data analytics services and training

524126 Direct Property and Casualty Insurance Carriers

Phone # (619) 501-1899 Fax # (619) 270-9833 Wrightman, Inc. DBA Surety Associates of Southern California **Insurance Services** Anne@sascbonds.com Contact Person: Anne Wright **License Type Business Status** Goods/Services Emerging NOTE: BROKER CREDIT ONLY: Surety bond agent sales/services 524210 Insurance Agencies and Brokerages Fax # (619) 270-9833 Wrightman, Inc. DBA Surety Associates of Southern California Phone # (619) 501-1899 **Insurance Services** Anne@sascbonds.com Contact Person: Anne Wright **Business Status License Type** Goods/Services Emerging NOTE: BROKER CREDIT ONLY: Surety bond agent sales/services 524291 Claims Adjusting Phone # (760) 295-0937 Fax # Drummond Investigations, Inc. mike@drummondinvestigations.com Contact Person: Michael Drummond **Business Status License Type** Goods/Services Emerging NOTE: 541219 Other Accounting Services Phone # (858) 837-0353 Fax # (858) 538-0625 Stormie Petoscia DBA SR Consulting Contact Person: Stormie Petoscia stormierp@gmail.com **Business Status License Type** Goods/Services **Emerging** NOTE: Document management, technical editing, accounting support 541310 Architectural Services Banning Architects, Inc. dba Banning Architecture Phone # (858) 342-3601 Fax # Contact Person: Patrick Banning pbanning@banningarc.com **License Type Business Status** ARC Emerging **NOTE:** Architectural Design Services Phone # (619) 238-6009 Fax # (619) 238-6042 CityWorks People + Places, Inc. lisa.murzic@cityworks.biz Contact Person: Laura Warner **License Type Business Status** ARC Emerging NOTE: Communications, public outreach, architecture, planning, and graphic design

Paul Be	enton Architect, Inc. dba Alcorn & Benton Architects	Phone #	(858) 45	59-0805	Fax #
paul@a	alcornbenton.com	Contact Person:	Paul B	enton	
				License Type	Business Status
				CSD-12	Emerging
				ARC	Emerging
NOTE:	Architecture, Engineering, Civil Engineering, Master P	lanning, Tenant			
	Improvements				
Platt/V	Vhitelaw Architects, Inc.	Phone #	(619) 54	16-4326	Fax # (619) 546-4350
sgramle	ey@plattwhitelaw.com	Contact Person:	Sandra	a Gramley	
				License Type	Business Status
				ARC	Small
				ARC	Small
NOTE:	Full Service architectural firm with emphasis on public	& institutional			
	projects				
Stephe	n Mayman DBA Ergo Architecture, Inc.	Phone #	(619) 23	35-0900	Fax #
Market	ing.Public@ErgoArchitecture.com	Contact Person:	Stephe	en W. Mayman	
				License Type	Business Status
				ARC	Emerging
NOTE:	Architectural Services				
Studio	Varone Architecture, Inc.	Phone #	(619) 82	21-8201	Fax #
sasha@	Ostudiovarone.com	Contact Person:	Christo	opher Varone	
				License Type	Business Status
				ARC	Emerging
				ARC	Emerging
NOTE:	STUDIO VARONE ARCHITECTURE, Inc. is a full service a	architectural firm			
	located in San Diego, California. We provide architect		n,		
	and site planning services.				
	541320 Landscape Architectural Services				
Attenti	on Landscape Architecture	Phone #	(619) 40)5-9303	Fax #
Laura@	Pattention2.com	Contact Person:	Laura	Burnett	
				License Type	Business Status
				LA	Emerging
NOTE:	Landscape architecture planning and design				

Carson	Douglas Landscape Architecture	Phone # (619)) 995-1306	Fax #
michae	l@cd-la.com	Contact Person: Mic	chael Brennan	
			License Type	Business Status
			LA	Emerging
			LA	Emerging
NOTE:	Landscape Architecture			
Denee	n Powell Atelier, Inc.	Phone # (619)) 294-9042	Fax #
jon@d _l	padesign.com	Contact Person: Jeri	i Deneen	
			License Type	Business Status
			LA	Emerging
NOTE:	Multidisciplinary outdoor educational design firm, the planning, enviromental graphics, interpretive plannin design.			
Diego \	/elasco dba Citythinkers	Phone # (619)) 602-1699	Fax #
diego@	Ocitythinkers.com	Contact Person: Die	go Velasco	
			License Type	Business Status
			Goods/Servi	ces Emerging
NOTE:	Urban planning and urban design consulting services			
Estrada	a Land Planning, Inc.	Phone # (619)) 236-0143	Fax # (619) 236-0578
vestrad	la@estradalandplan.com	Contact Person: Vic	ki Estrada	
			License Type	Business Status
			LA	Emerging
NOTE:	Landscape architecture, land planning, urban design, assessments, computer simulations, community facility	•		
Garbin	i & Garbini Landscape Architecture, Inc.	Phone # (619) 232-4747	Fax # (619) 232-4510
Ggarbir	ni@garbiniandgarbini.com	Contact Person: Gai	l Decker Garbini	
			License Type	Business Status
			LA	Emerging
			LA	Emerging
NOTE:	Landscape architectural design and construction docu administration services for landscape construction, w presentations, reports 3D simulations and other grap	orkshop facilitation,		
Ground	dLevel Landscape Architecture, Inc	Phone # (619)) 325-1990	Fax # (407) 697-5333
eericks	on@groundlevelsd.com	Contact Person: Bra	dley Lenahan	
			License Type	Business Status
			LA	Small
			LA	Small
NOTE:	Landscape Architecture			

	51 "	(640) 0	06.0740		(640) 206 2702
Lili O'Connor DBA Parterre	Phone #	(619) 2	96-3/13	Fax #	(619) 296-3702
liliparterre@cox.net	Contact Person:	Liljan	a (Lili) O'Conno	r	
			License Type		Business Status
			LA		Emerging
NOTE: Landscape architectural consulting services to public including other design professionals	and private clients,				
Marian Marum DBA Marum Partnership	Phone #	(619) 9	92-9533	Fax #	(858) 578-2820
Marian@marumpartnership.com	Contact Person:	Maria	an Marum		
			License Type		Business Status
			ARC		Emerging
NOTE: Landscape Architecture					
McCullough Landscape Architecture, Inc.	Phone #	(619) 2	96-3150	Fax #	(619) 501-7725
catherine@mlasd.com	Contact Person:	Cathe	erine McCulloug	gh	
			License Type		Business Status
			LA		Small
NOTE: Professional Services, landscape architecture, urban o	lesign and planning	g			
MW Peltz & Associates, Inc.	Phone #	(858) 4	81-0888	Fax #	(858) 481-6808
Mpeltz@mwpeltz.com	Contact Person:	Micha	ael W. Peltz		
			License Type		Business Status
			LA		Emerging
NOTE: Landscape Architecture, Park Planning, Urban Design					
Paul Redvers Brown, Inc.	Phone #	(619) 5	20-3928	Fax #	ł .
brownpr@paulredversbrown.com	Contact Person:	Paul I	R. Brown		
			License Type		Business Status
			Goods/Service	es	Small
NOTE: Water Resources and Infrastructure Management Co	nsulting				
Reddy Engineering Services, Inc DBA RE Services	Phone #	(510) 4	09-2640	Fax #	ŧ
vinay@reddyengineering.com	Contact Person:	Vinay	Basi Reddy		
			License Type		Business Status
			CSD-12		Emerging
			LA		Emerging
NOTE: Construction Management and Design, Landscape Are	chitecture				

Schmidt Design Group, Inc.	Phone # (619) 23	36-1462	Fax # (619) 236-8792
info@schmidtdesign.com	Contact Person: Glen S	chmidt	
		License Type	Business Status
		LA	Small
NOTE: Landscape architecture, design and planning services			
Spurlock Landscape Architects	Phone # (619) 68	31-0090	Fax # (619) 681-0096
DSather@spurlock-land.com	Contact Person: Leigh I	Kyle	
		License Type	Business Status
		LA	Small
		LA	Small
		LA	Small
NOTE: Landscape architecture, urban design and planning			
Studio West Landscape Architecture & Planning	Phone # (858) 59	98-5085	Fax #
mlandis@studiowest-land.com	Contact Person: Miche	lle Marie Landi	S
		License Type	Business Status
		LA	Emerging
NOTE: Landscape Architecture and Planing . Environmental a Educational training consultant	nd Ecological services.		
Van Dyke Landscape Architects, Inc.	Phone # (619) 29	94-8484	Fax # (619) 574-0626
mitch@vdla.us	Contact Person: Mitche	ell S. Phillippe	
		License Type	Business Status
		ARC	Small
NOTE: Landscape Architecture, Planning, Water Managemen Communication	t, Graphic		
541330 Engineering Services			
AARK Engineering, Inc.	Phone # (619) 31	12-6336	Fax # (619) 383-6560
Vanbibber@aarkengineering.com	Contact Person: Mark	Van Bibber	
		License Type	Business Status
		CSD-12	Small
		CSD-30	Small
NOTE: Consulting structural engineering services			
Afsaneh Sunnie House DBA Sunnie House Strategies	Phone # (619) 78	37-3777	Fax #
sunnie@shousestrategies.com	Contact Person: Afasne	h Sunnie Hous	e
		License Type	Business Status
		CSD-12	Small
NOTE: Providing management solutions and strategic and but planning to help organizations optimize and grow.	siness development		

Allied Geotechnical Engineers, Inc.	Phone # (619) 4	49-5900 Fa	x # (619) 449-5902
s_sutanto@alliedgeo.org	Contact Person: Sani S	Sutanto	
		License Type	Business Status
		CSD-12	Small
NOTE: Geotechnical Engineering Services (soil mecha geology, hydrogeology and geo-environmenta			
ARC Engineers, Inc	Phone # (619) 5	81-3113 Fa	x #
info@arc-engineer.com	Contact Person: Adrie	l Lara	
		License Type	Business Status
		CSD-12	Emerging
NOTE: Engineering and Construction Management, S Developer	storm Water Practitioner and		
AXL Group, Inc.	Phone # (760) 4	70-9550 Fa	x # (760) 470-9550
john@axlco.com	Contact Person: John	Rillman Bartholom	ew III
		License Type	Business Status
		CSD-12	Small
		А	Small
		В	Small
		C-10	Small
NOTE:			
Balboa Engineering, Inc.	Phone # (858) 2	00-5044 Fa	x #
matt@balboaengineering.com	Contact Person: Matt	Dorman	
		License Type	Business Status
		CSD-12	Emerging
NOTE: Program and Project Management, Civil Engin Planning, Studies	neering for DB & DBB projects,		
Belcourt Engineering Group, LLC	Phone # (858) 8	37-0749 Fa	x #
mbelcourtois@aol.com	Contact Person: Moha	med Adjroud	
		License Type	Business Status
		Goods/Services	Small
NOTE: Professional Technical Services/Construction I Management, Construction Inspections, Proje			

Beyaz & Patel, Inc.	Phone # (858) 451-0	0374 Fax	(# (858) 271-9932	
spatel@beyazpatel.com	Contact Person: Subhash F		(000) 171 0001	
	_	cense Type	Business Status	
		SD-30	Emerging	
		SD-12	Emerging	
NOTE: Design and construction related services of water		,	2	
transportation and building projects	er, wastewater, transit,			
BLP Engineers, Inc.	Phone # (760) 458-1	1016 Fax	t# (619) 839-0346	
Blp.eng.inc@gmail.com	Contact Person: Boris Past	tushenko		
	Lic	cense Type	Business Status	
	CS	SD-12	Small	
NOTE: Environmental engineering and planning service industrial clients	es to municipal, federal and			
Blue Lake Civil	Phone # (619) 609-7	7825 Fax	(#	
maggie.witt@bluelakecivil.com	Contact Person: Margaret	aret Witt		
	Lic	cense Type	Business Status	
		SD-12	Emerging	
	CS	SD-12	Emerging	
NOTE: Blue Lake Civil offers a wide array of professiona from planning and design to construction and professional profess				
BSE Engineering, Inc.	Phone # (858) 800-6	6025 Fax	¢# (858) 279-2626	
abrown@bseengineering.com	Contact Person: Alan Brow	vn		
	Lic	cense Type	Business Status	
	E		Small	
	М	I	Small	
NOTE: Mechanical, Electrical and Energy Engineering So	ervices			
Cartier & Associates, LLC DBA Cartier and Associates	Phone # (858) 888-0	0265 Fax	(#	
tomcartier@gmail.com	Contact Person: Tom Carti	ier		
	Lic	cense Type	Business Status	
	M		Emerging	
	E		Emerging	
NOTE: Professional Engineering and Project Manageme	ent Consulting Services			

Chen Ryan Associates, Inc.	Phone #	(619) 79	15-6086	Fax #
Mchen@chenryanmobility.com	Contact Person:			
Wieneria enem yanniosiney.com	Contact i Cison.	IVIOIIIQ	License Type	Business Status
			T	Small
			Т	Small
			CSD-12	Small
			CSD-12 CSD-12	Small
T 55			C3D-12	Silidii
NOTE: Traffic engineering, design, and transportation planr	ning services			
CJ Roberts, Inc.	Phone #	(858) 22	8-3655	Fax # (858) 228-3656
lisette@cjrobertsinc.com	Contact Person:	Chris R	oberts	
			License Type	Business Status
			CSD-12	Small
NOTE: Civil Engineering Design and Construction Managem	ent			
CPM Partners, Inc.	Phone #	(760) 23	0-8009	Fax #
Alex@cpm-partners.com	Contact Person:	Maribe	el Janacek	
			License Type	Business Status
			CSD-12	Small
analysis, document control, project control, office elestimating, constructability reviews, SWPPP complian	ince	(858) 86	6-0128	Fax # (858) 866-0131
Cvaldo Corporation				rdx # (858) 800-0131
mikec@cvaldo.com	Contact Person:	wike C		D
			CSD-12	Business Status Emerging
NOTE: general civil engineering and planning, with expertis and flood control, and storm water science	e in site design, drai	nage		
Dersch Design & Engineering, Inc.	Phone #	(858) 76	8-0867	Fax #
brian@derschdesign.com	Contact Person:	Brian D	Dersch	
			License Type	Business Status
			E	Emerging
NOTE: Consulting engineering and design project managem projects. Primary focus is electrical engineering pow communications		1		
Donald C. Williams DBA Compliance Monitoring Services	Phone #	(619) 27	6-5470	Fax # (000) 000-0000
. Clint_cms@hotmail.com Clint@san.rr.com	Contact Person:	Donald	d Clinton Willia	ims
			License Type	Business Status
			GEO	Emerging
NOTE: Environmental, Groundwater and Geological Consul	ting and Services			

Phone # (619) 688-1495 Fax # EFS Engineering, Inc. Skip@efs-engineering.com Contact Person: Eugene F. Shank **License Type Business Status** CSD-12 **Emerging** NOTE: Professional engineering consulting services, including: assessment engineering & special district consulting, rate studies & impact fees, planning & feasibility studies, and project management. Phone # (760) 738-5570 Fax # (760) 738-5227 Eilar Associates, Inc ahool@eilarassociates.com Contact Person: Amy Hool **License Type Business Status** Goods/Services Small NOTE: Acoustical and Environmental Consulting Services Phone # (858) 564-8985 Fax # (858) 564-8985 Electrical Design, Incorporated - Consulting Engineers DBA EDI **Engineers** edavid@edi-engineers.com Contact Person: Edwardo David **License Type Business Status** Ε **Emerging** NOTE: Professional electrical engineering consulting firm provides innovative solutions, energy efficient and environmentally responsible designs to federal, state and local government as well as private entities. Phone # (619) 736-2800 Fax # **Fusion Engineering and Technology** contactus@fusionengtech.com Contact Person: Chris Schildmeier **Business Status License Type** CSD-12 **Emerging** NOTE: Fusion Engineering and Technology provides professional civil engineering services and information technology Phone # (916) 798-8629 Fax # Gateway Pacific Management, Inc. traci.stephens@gpmcivil.com Contact Person: Traci Stephens **License Type Business Status** CSD-12 **Emerging** NOTE: Program/Project Management, Construction Management and Civil Engineering. Phone # (858) 230-0355 Fax # **GOLD'S Engineering Professional Corporation** david.gold@goldsengineering.com Contact Person: David Goldgraben **Business Status License Type** Μ Small NOTE: GOLD'S Engineering Professional Corporation is a full-service engineering, program, and project management company.

H+W Engineering, Inc.	Phone # (619) 6	59-8234	Fax #
bryan@hwengr.com	Contact Person: Bryan		
Siyane nwengi.com	Contact reason. Bryan	License Type E M	Business Status Emerging Emerging
NOTE: Mechanical, Electrical, Plumbing, and Lighting Co	nsulting Engineers		
Helenschmidt Geotechnical, Inc.	Phone # (760) 5	79-0333	Fax # (760) 579-0230
engineering.hgi@sbcglobal.net	Contact Person: Stanle	ey Helenschmic	dt
		License Type	Business Status
		CSD-12	Emerging
		CSD-20	Emerging
NOTE: Geotechnical hazard mitigation, subsurface investobservation & testing, soil stabilization, foundation geologic hazard mapping, & seismic design.			
Information & Energy Services, Inc.	Phone # (760) 9	08-6321	Fax #
mrogers@iesenergy.com	Contact Person: Micha	el Rogers	
		License Type	Business Status
		M	Small
NOTE: Consulting Services for energy savings performan	ice		
Intersecting Metric	Phone # (619) 9	94-5814	Fax #
Steve@intersectingmetrics.com	Contact Person: Steph	en Cook	
		License Type	Business Status
		Т	Emerging
NOTE: Transportation Engineering and Planning			
Ivey Engineering, Inc	Phone # (858) 5	87-2874	Fax # (858) 587-6749
wivey@iveyengineering.com	Contact Person: Willia	m lvey	
		License Type	Business Status
		В	Small
		C-20	Small
		C-36	Small
		М	Small
NOTE: Performs forensic engineering, building system d Specializes in HVAC, plumbing, fire and life safety refrigeration, building code analysis.			

Junker	Engineering Group	Phone #	(619) 60	06-5058	Fax	#
dan@ju	unkereng.com	Contact Person:	Daniel	Aaron Junker		
				License Type		Business Status
				CSD-30		Small
NOTE:	Full service consulting structural engineering services of buildings.	on a wide range of	f			
Kelsey	Structural APC	Phone #	(619) 92	20-1262	Fax	#
gkelsey	@kelseystructural.com	Contact Person:	Guy Ke	elsey		
				License Type		Business Status
				CSD-30		Emerging
				CSD-12		Emerging
NOTE:	Structural Engineering Design Services					
Kettler	Leweck Engineering	Phone #	(619) 26	59-3444	Fax	# (619) 269-3459
Lisa@k	ettlerleweck.com	Contact Person:	Lisa Le	weck		
				License Type		Business Status
				CSD-12		Small
				CSD-12		Small
NOTE:	Civil engineering consultant services including but not grading and improvement plans, drainage studies, WQ land development and public works related document	TR, SWPPP, and o	_			
Libby E	ngineers Inc. DBA Martin & Libby	Phone #	(619) 28	30-9307	Fax	# (619) 284-3533
jlibby@	Plibby-lei.com	Contact Person:	Jean M	1. Libby		
				License Type		Business Status
				CSD-12		Emerging
				LA		Emerging
NOTE:	Structural engineering services including, design, analy specifications and construction estimating	sis, plan preparat	ion,			
Lopez E	Engineering, Inc. DBA Electrical Engineering Consulting	Phone #	(619) 27	75-5658	Fax	# (619) 275-1929
jjlopez(@lopezengineering.com	Contact Person:	John J.	Lopez		
				License Type		Business Status
				E		Small
NOTE:	LEI is a consulting electrical engineering firm founded is creative solutions to complex problems. LEI has success consulted on sophisticated projects in sensitive and high environments	sfully designed ar				

Los Eng	gineering, Inc.	Phone # (619) 89	90-1253	Fax # (619) 374-7247
Justin@	Plosengineering.com	Contact Person: Justin	Rasas	
			License Type	Business Status
			CSD-12	Emerging
			Т	Emerging
NOTE:	Professional Services			
Lugo E	ngineering, Inc.	Phone # (858) 94	43-1321	Fax #
Lugoen	gineering@san.rr.com	Contact Person: Adolp	h Lugo	
			License Type	Business Status
			CSD-12	Small
NOTE:	Civil Engineering, Drainage and Flood control engir Professional Services	neering services,		
Mann.l	King: Engineers Inc. DBA DHK Engineers	Phone # (760) 74	47-9553	Fax # (760) 747-9553
Dhkeng	g1@sbcglobal.net	Contact Person: Donal	d H. King	
			License Type	Business Status
			CSD-14	Emerging
			CSD-12	Emerging
			М	Emerging
NOTE:	Consulting Services: Energy, Odor Control, Air Qua Noise	ality, Mechanical HVAC,		
Mark T	homas and Associates, Inc. DBA MTA Electrical Engi	ineers Phone # (760) 65	58-6098	Fax #
mark@	mtaee.com	Contact Person: Mark	Steven Thomas	
			License Type	Business Status
			C-10	Small
NOTE:	Our Electrical Engineering Services include Short C Coordination Studies, Arc Flash Analysis and Labeli Fault Current Analysis, Single Line Development, P Power Quality Analysis and Harmonic	ing, Voltage Drop Studies,		
Massoi	n and Associates, Inc.	Phone # (760) 74	41-3570	Fax # (760) 741-1786
dj@ma	sson-assoc.com	Contact Person: Dougl	as Masson	
			License Type	Business Status
			CSD-12	Small
NOTE:	Civil Engineering and Land Surveying			

Michael R. Welch DBA Consulting Engineer	Phone # (858)	625-0167	Fax # (858) 625-0267
mwelch1@san.rr.com	Contact Person: Mich	nael R. Welch	
		License Type CSD-12	Business Status Emerging
NOTE: Wastewater, recycled water & water facilities permitting. Compliance with state/federal was potable water, ground & surface water, & pub Reservoir & groundwater studies.	stewater, recycled water,		
Mikhail Ogawa Engineering, Inc DBA MOE	Phone # (858)	987-4169	Fax #
13@mogawaeng.com	Contact Person: Mika	hail Ogawa	
		License Type CSD-12	Business Status Emerging
NOTE: MOE provides a variety of environmental and services for municipalities and utilities. Service stormwater programmatic and regulatory requiremanagement and construction management.	s focus on fulfillment of		
NOVA Engineering, Inc.	Phone # (619)	296-1010	Fax #
mcook@nova-eng.com	Contact Person: Mat	thew Cook	
		License Type	Business Status
		CSD-12	Small Small
NOTE: Civil Engineering, Construction Survey, Stormw	<i>v</i> ater	CSD-12 LS	Small Small
			2111211
O'Day Consultants, Inc.		LS 931-7700	Small
O'Day Consultants, Inc.	Phone # (760)	LS 931-7700	Small
NOTE: Civil Engineering, Construction Survey, StormwO'Day Consultants, Inc. pato@odayconsultants.com NOTE: Civil engineering, land surveying and mapping	Phone # (760)	LS 931-7700 ick N. O'Day License Type	Small Fax # (760) 931-8680 Business Status
O'Day Consultants, Inc. pato@odayconsultants.com NOTE: Civil engineering, land surveying and mapping	Phone # (760) Contact Person: Patri	US 931-7700 ick N. O'Day License Type CSD-12	Small Fax # (760) 931-8680 Business Status
O'Day Consultants, Inc. pato@odayconsultants.com	Phone # (760) Contact Person: Patri	LS 931-7700 ick N. O'Day License Type CSD-12	Small Fax # (760) 931-8680 Business Status Small
O'Day Consultants, Inc. pato@odayconsultants.com NOTE: Civil engineering, land surveying and mapping Orie2 Engineering, Inc.	Phone # (760) Contact Person: Patri Phone # (858)	LS 931-7700 ick N. O'Day License Type CSD-12	Small Fax # (760) 931-8680 Business Status Small
O'Day Consultants, Inc. pato@odayconsultants.com NOTE: Civil engineering, land surveying and mapping Orie2 Engineering, Inc.	Phone # (760) Contact Person: Patri Phone # (858)	LS 931-7700 ick N. O'Day License Type CSD-12 335-7843 ald R. Orie	Small Fax # (760) 931-8680 Business Status Small Fax #
O'Day Consultants, Inc. pato@odayconsultants.com NOTE: Civil engineering, land surveying and mapping Orie2 Engineering, Inc.	Phone # (760) Contact Person: Patri Phone # (858)	LS 931-7700 ick N. O'Day License Type CSD-12 335-7843 ald R. Orie License Type	Small Fax # (760) 931-8680 Business Status Small Fax # Business Status

Daradi	gm Environmental Inc	Phone # (619)	561-6906	Fax #
	gm Environmental, Inc			ι αλ π
steve@	paradigmh2o.com	Contact Person: Step		Duning and Chature
			License Type CSD-12	Business Status Small
NOTE:	Channel and Make Orality Facinessis and analysis	d stocks sie alemaine	C3D-12	Silidii
NOTE:	Stormwater and Water Quality Engineering, watershe modeling, and web-based tools.	d strategic planning,		
Patters	on Engineering, Inc.	Phone # (858)	605-0937	Fax # (858) 605-1414
Curtis@	Ppattersoneng.com	Contact Person: Curt	is Patterson	
			License Type	Business Status
			CSD-12	Emerging
			CSD-30	Emerging
NOTE:	Structural Engineering Services			
Paul Be	enton Architect, Inc. dba Alcorn & Benton Architects	Phone # (858)	459-0805	Fax #
paul@a	alcornbenton.com	Contact Person: Paul	Benton	
			License Type	Business Status
			CSD-12	Emerging
			ARC	Emerging
NOTE:	Architecture, Engineering, Civil Engineering, Master Pl Improvements	anning, Tenant		
Pedro	Orso-Delgado DBA Under Construction	Phone # (619)	598-2063	Fax #
porso@	Puconstrucione.com	Contact Person: Pedr	o Orso-Delgado	
			License Type	Business Status
			CSD-12	Emerging
NOTE:	Consulting Engineering Services			
Proteu	s Consulting	Phone # (858)	353-2805	Fax # (000) 000-0000
Soma@	consult-proteus.com	Contact Person: Som	a Bhadra	
			License Type	Business Status
			CSD-12	Emerging
NOTE:	Engineering and Management Consulting- water, was water projects	tewater, and recycled		
PW En	gineering	Phone # (858)	456-0577	Fax #
	pwe@gmail.com	Contact Person: Pete	Wong	
			License Type	Business Status
			CSD-12	Emerging
			CSD-12	Emerging
NOTE:	Environmental/Civil Engineering Consulting in all aspedesign, condition assessment of water and wastewater	-	332 22	9
	conveyance, disposal and reuse facilities			

		DI " /010		
Quality	Infrastructure Corporation	Phone # (619	9) 741-9400	Fax #
Kbradb	ury@qualityinfrastructure.com	Contact Person: Kir	rk F. Bradbury	
			License Type	Business Status
			CSD-12	Small
NOTE:	Civil Engineering Services focusing on Transportation	Engineering		
Rancho	Coastal Engineering & Surveying, Inc.	Phone # (760	0) 510-3152	Fax # (760) 510-3153
Nora@	rcesd.com	Contact Person: No	ora Logan	
			License Type	Business Status
			CSD-12	Emerging
			LS	Emerging
NOTE:	Civil/Structural Engineering & Land Surveying			
Reddy	Engineering Services, Inc DBA RE Services	Phone # (510	0) 409-2640	Fax #
vinay@	reddyengineering.com	Contact Person: Vir	nay Basi Reddy	
			License Type	Business Status
			CSD-12	Emerging
			LA	Emerging
NOTE:	Construction Management and Design			
RF Year	ger Engineering, Inc.	Phone # (619	9) 647-6265	Fax # (619) 561-0031
	er@RFYeager.com	Contact Person: Ric		
			License Type	
			CSD-12	Small
NOTE:	Corrosion Engineering Services			
River F	ocus, Inc.	Phone # (619	9) 212-7939	Fax #
	n@riverfocus.com	Contact Person: An		
Jgusiiia	menveriocus.com	Contact Person. An		Duciness Chatus
			CSD-12	Business Status Small
NOTE:	River Focus is a water resource engineering consulting owned small business that specializes in FEMA map remodeling, 2-D floodplain studies, hydrology, bridge so streambank protection	evisions, hydraulic		Jillan
Rizza E	ngineering, Inc.	Phone # (858	3) 939-9100	Fax #
	l.rizza@rizzaengineering.com	Contact Person: Mi	ichael Rizza	
			License Type	Business Status
			E	Emerging
NOTF:	Electrical Engineering and Lighting Design			

Sampo Engineering, Inc.	Phone # (760) 4	136-0660	Fax # (760) 436-0659		
vince@sampoengineering.com	Contact Person: Vince				
		License Type CSD-12 LS	Business Status Emerging Emerging		
NOTE: Civil engineering, surveying, mapp	ping and planning.				
San Dieguito Engineering, Inc.	Phone # (760) 7	753-5525	Fax # (760) 943-8236		
Aaguilar@sdeinc.com	Contact Person: Annie	e Aguilar			
		License Type CSD-12	Business Status Small		
NOTE: Civil Engineering, Stormwater Pre Planning, Subsurface Utility Engin	paration, Surveying, Mapping, Land eering				
Snyder Geologic, Inc	Phone # (858) 4	112-9848	Fax #		
scott@snydergeologic.com	Contact Person: Willia	am Scott Snyder	n Scott Snyder		
		License Type GEO	Business Status Small		
		CSD-22	Small		
NOTE: We provide environmental, grour services	ndwater, and stormwater consulting				
STC Traffic, Inc.	Phone # (760) 5	585-4212	Fax # (619) 342-8043		
marketing@stacktraffic.com	Contact Person: Jason	ı Stack			
		License Type T	Business Status Small		
Construction Management, Traffi	nsportation Systems, Rail Grade Crossings, c Signal Design, Signing and Striping, Traffic and Networks, Traffic Operations				
Stevens Cresto Engineering, Inc.	Phone # (858) 6	594-5660	Fax # (858) 694-5661		
llk@scengr.com	Contact Person: Mark	Stevens			
		License Type	Business Status		
		CSD-12	Small		
		CSD-12	Small		
		LS	Small		
NOTE: Civil Engineering, Land Planning, L	and Surveying				

The Bodhi Group, Inc.	Phone # (858) 51	3-1469 F	Fax # (858) 513-1609
Sree@thebodhigroup.com	Contact Person: Sreeku	mar Gopinath	
		License Type	Business Status
		CSD-12	Emerging
		Α	Emerging
		HAZ	Emerging
NOTE: Environmental and Geotechnical Consulting So	ervices		
Tory R. Walker Engineering, Inc.	Phone # (760) 41	4-9212 F	Fax #
tory@trwengineering.com	Contact Person: Tory R.	Walker	
		License Type	Business Status
		CSD-12	Small
NOTE: Water resources engineering services: waters management, river restoration, storm water r design, sedimentation and erosion, and permi	management, flood facilities		
Turrell Engineering, LLC	Phone # (760) 87	7-4192 F	ax #
TELLCmail@gmail.com	Contact Person: John Tu	urrell	
		License Type	Business Status
		CSD-12	Small
NOTE: Construction Management, Project Managem	ent, Civil Engineering		
Villa Civil, APC	Phone # (858) 92	2-4652 F	ax #
christy@villacivil.com	Contact Person: Christy	Villa	
		License Type CSD-12	Business Status Small
NOTE: Civil engineering, planning, design, construction management and funding support for water reprojects.			
West Coast Civil, Inc.	Phone # (858) 86	9-1332 F	Fax # (858) 761-0001
anthony@westcoastcivil.com	Contact Person: Anthor	ny Gonzalez	
		License Type	Business Status
		CSD-12	Small
NOTE: Civil Engineering services specializing in Land I Water-Waste Water Development, Public Imp			

Wise H	ome Ventures DBA Mizuta Traffic Consulting	Phone # (858)	752-8212	Fax #
mizuta	trafficconsulting@gmail.com	Contact Person: Ma	rc Mizuta	
			License Type	Business Status
			CSD-12	Small
			Т	Small
NOTE:	Transportation Planning and Traffic Engineering			
Zentih	Consultants	Phone # (619)	528-2240	Fax #
alagha(@zenith-consultants.com	Contact Person: Soh	aib Alagha	
			License Type	Business Status
			CSD-12	Emerging
			LS	Emerging
NOTE:	Professional engineering services, real estate developroject management services.	pment services and		
	541340 Drafting Services			
Beyaz 8	& Patel, Inc.	Phone # (858)	451-0374	Fax # (858) 271-9932
spatel@	g beyazpatel.com	Contact Person: Sub	hash Patel	
			License Type	Business Status
			CSD-30	Emerging
			CSD-12	Emerging
NOTE:	Design and construction related services of water,	astewater, transit,		
Chen R	yan Associates, Inc.	Phone # (619)	795-6086	Fax #
Mchen	@chenryanmobility.com	Contact Person: Mo	nique Chen	
			License Type	Business Status
			Т	Small
			Т	Small
			CSD-12	Small
			CSD-12	Small
NOTE:	Traffic engineering, design, and transportation plans	ning services		
Helens	chmidt Geotechnical, Inc.	Phone # (760)	579-0333	Fax # (760) 579-0230
engine	ering.hgi@sbcglobal.net	Contact Person: Star	nley Helenschmi	dt
			License Type	Business Status
			CSD-12	Emerging
			CSD-20	Emerging
NOTE:	Geotechnical hazard mitigation, subsurface investigation observation & testing, soil stabilization, foundation ageologic hazard mapping, & seismic design.			

Kettler	Leweck Engineering	Phone #	(619) 26	59-3444	Fax # (619) 269-3459
Lisa@k	ettlerleweck.com	Contact Person	Lisa Le	weck	
				License Type	Business Status
				CSD-12	Small
				CSD-12	Small
NOTE:	Civil engineering consultant services including but not grading and improvement plans, drainage studies, WC land development and public works related document	TR, SWPPP, and o	_		
Patters	on Engineering, Inc.	Phone #	(858) 60	05-0937	Fax # (858) 605-1414
Curtis@	Ppattersoneng.com	Contact Person	Curtis	Patterson	
				License Type	Business Status
				CSD-12	Emerging
				CSD-30	Emerging
NOTE:	Professional Services				
Terra V	Vest, Inc.	Phone #	(619) 48	38-3000	Fax # (619) 568-3475
roberto	o@terrawestinc.com	Contact Person	Rober	to Tessada	
				License Type Goods/Service	Business Status es Emerging
NOTE:	Consulting services for compliance with the Construction and regional water pollution control regulations for conservices include development of Water Pollution Contact (SWPP, WPCP, SWMP, etc)	nstruction sites.			
	and regional water pollution control regulations for co Services include development of Water Pollution Cont	nstruction sites.	n	Goods/Servic	
West C	and regional water pollution control regulations for co Services include development of Water Pollution Cont (SWPP, WPCP, SWMP, etc)	nstruction sites. rol Documentatic	on (858) 86	Goods/Servic	es Emerging
West C	and regional water pollution control regulations for co Services include development of Water Pollution Cont (SWPP, WPCP, SWMP, etc)	enstruction sites. Frol Documentation	on (858) 86	Goods/Servic	es Emerging
West C	and regional water pollution control regulations for co Services include development of Water Pollution Cont (SWPP, WPCP, SWMP, etc)	enstruction sites. Frol Documentation	on (858) 86	Goods/Servic 69-1332 ny Gonzalez	es Emerging Fax # (858) 761-0001
West C	and regional water pollution control regulations for co Services include development of Water Pollution Cont (SWPP, WPCP, SWMP, etc)	enstruction sites. Frol Documentation	on (858) 86	Goods/Service 69-1332 ny Gonzalez License Type	es Emerging Fax # (858) 761-0001 Business Status
West C	and regional water pollution control regulations for co Services include development of Water Pollution Cont (SWPP, WPCP, SWMP, etc)	enstruction sites. Frol Documentation	on (858) 86	Goods/Service 69-1332 ny Gonzalez License Type CSD-12	Fax # (858) 761-0001 Business Status Small
West C	and regional water pollution control regulations for co Services include development of Water Pollution Cont (SWPP, WPCP, SWMP, etc)	enstruction sites. Frol Documentation	on (858) 86	Goods/Service 69-1332 ny Gonzalez License Type CSD-12 CSD-12	Fax # (858) 761-0001 Business Status Small Small
West C	and regional water pollution control regulations for co Services include development of Water Pollution Cont (SWPP, WPCP, SWMP, etc)	Phone # Contact Person	(858) 86 : Antho	Goods/Service 69-1332 ny Gonzalez License Type CSD-12 CSD-12 CSD-12	Fax # (858) 761-0001 Business Status Small Small Small
West Canthon	and regional water pollution control regulations for conservices include development of Water Pollution Cont (SWPP, WPCP, SWMP, etc) Coast Civil, Inc. y@westcoastcivil.com Civil Engineering services specializing in Land Development of Water Pollutions Control of Water Pollution Control o	Phone # Contact Person	(858) 86 : Antho	Goods/Service 69-1332 ny Gonzalez License Type CSD-12 CSD-12 CSD-12	Fax # (858) 761-0001 Business Status Small Small Small
West Canthon	and regional water pollution control regulations for conservices include development of Water Pollution Cont (SWPP, WPCP, SWMP, etc) Coast Civil, Inc. y@westcoastcivil.com Civil Engineering services specializing in Land Development-Water-Waste Water Development, Public Improvement	Phone # Contact Person	(858) 86 : Antho	Goods/Service 69-1332 ny Gonzalez License Type CSD-12 CSD-12 CSD-12 CSD-12	Fax # (858) 761-0001 Business Status Small Small Small

Barnett Quality Control Services DBA Nova Services	Phone # (816) 28	9-0131 F	Fax #	
djbarnett@usa-nova.com	Contact Person:	Danny	J. Barnett, Jr.		
			License Type	В	Business Status
			Goods/Services	s S	imall
NOTE: Geotechnical engineering, materials testing, and spec	cial inspection servic	es			

Testing Services & Inspections, Inc. Phone # (619) 234-9904 Fax # (619) 234-4931 Contact Person: Juan R. Diaz tsi92113@yahoo.com **License Type Business Status** Goods/Services **Emerging** NOTE: Special Inspection Services and Materials Testing

541360 Geophysical Surveying and Mapping Services

Diane M	Nurbach DBA Murbach Geotech	Phone #	(619) 22	22-2044 F	Fax #	ŧ
dianemi	urbach@gmail.com	Contact Person:	Diane	Murbach		
				License Type		Business Status
				GEO		Emerging
				GEO		Emerging
NOTE:	Geological and Geotechnical Consulting					
Masson	and Associates, Inc.	Phone #	(760) 74	11-3570 F	Fax #	(760) 741-1786
dj@mas	sson-assoc.com	Contact Person:	Dougla	as Masson		
				License Type		Business Status
				CSD-12		Small
NOTE:	Civil Engineering and Land Surveying					
SubSurf	ace Surveys & Associates, Inc.	Phone #	(760) 47	76-0492 F	Fax #	ŧ
gherma	n@subsurfacesurveys.com	Contact Person:	Georg	e Harmon		
				License Type		Business Status
				CSD-21		Emerging
	SubSurface Surveys provides near-surface geophysical services	and utility locatin	g			

541370 Surveying and Mapping (except Geophysical) Services

Acculine Survey, Inc.	Phone # (858) 4	83-6665 Fax	(# (858) 483-6056
Acculinesurvey@sbcglobal.net	Contact Person: Rudy	Pacheco	
		License Type	Business Status
		LS	Small
NOTE: Professional Land Surveying Services			
Alta Land Surveying, Inc.	Phone # (619) 7	13-2582 Fax	(# (619) 579-2582
Miguel@altalandsurveying.com	Contact Person: Migue	el Martinez	
		License Type	Business Status
		LS	Emerging
NOTE: Land Surveying			

Berggren Land Surveying & Mapping, Inc. DBA Berggren & Associates	Phone # (858) 8	24-0034 F	Fax # (858) 824-0036
J.Berggren@prodigy.net	Contact Person: John F	R. Berggren	
		License Type	Business Status
		LS	Emerging
NOTE: Land Surveying and Mapping			
CL Surveying and Mapping, Inc.	Phone # (909) 4	84-4200 F	-ax #
dan@cl-survey.com	Contact Person: Lam L	e	
		License Type	Business Status
		LS	Emerging
		LS	Small
NOTE: Construction Staking, Land Surveying, Mapping, Boun Geospatial	dary Surveying,		
Coastal Land Solutions, Inc.	Phone # (760) 2	30-6025	-ax #
sean@coastal-land-solutions.com	Contact Person: Sean	C. Englert	
		License Type	Business Status
		LS	Emerging
NOTE: Land surveying services and mapping, land planning, e	engineering consulting		
Forefront Land Surveying, Inc.	Phone # (760) 7	38-8804 F	ax # (760) 519-3158
lleger.fls@gmail.com	Contact Person: Arlene	e Patricia Brewei	-
		License Type	Business Status
		LS	Emerging
NOTE: Consulting land surveying services.			
Fusion Engineering and Technology	Phone # (619) 7	36-2800 F	-ax #
contactus@fusionengtech.com	Contact Person: Chris	Schildmeier	
		License Type	Business Status
		CSD-12	Emerging
NOTE: Fusion Engineering and Technology provides profession	onal civil engineering		
services and information technology			
services and information technology GIS Surveyors, Inc.	Phone # (858) 6	79-1732 I	Fax # (858) 679-1733
	Phone # (858) 6 Contact Person: Paul L		Fax # (858) 679-1733
GIS Surveyors, Inc.	, ,		Fax # (858) 679-1733 Business Status
GIS Surveyors, Inc.	, ,	oska	

Golden	Triangle Land Surveying, Inc.	Phone #	(760) 7	758-7725	Fax # (760) 758-7726
willardl	ph@att.net	Contact Person	: Willia	am Hall	
NOTF:	Land Surveying			License Type LS	Business Status Emerging
		Dhana #	(610)	200 2444	Fav. # (C10) 200 2450
	Leweck Engineering	Phone #			Fax # (619) 269-3459
Lisa@k	ettlerleweck.com	Contact Person	: Lisa L		
				License Type	Business Status
				CSD-12	Small
				CSD-12	Small
NOTE:	Civil engineering consultant services including but not grading and improvement plans, drainage studies, WC land development and public works related document	QTR, SWPPP, and o	_		
NOVA I	Engineering, Inc.	Phone #	(619) 2	296-1010	Fax #
mcook	@nova-eng.com	Contact Person	: Matt	hew Cook	
				License Type	Business Status
				CSD-12	Small
				LS	Small
NOTE:	Civil Engineering, Construction Survey, Stormwater				
O'Day (Consultants, Inc.	Phone #	(760) 9	931-7700	Fax # (760) 931-8680
pato@d	odayconsultants.com	Contact Person	: Patri	ck N. O'Day	
	·			License Type	Business Status
				CSD-12	Small
NOTE:	Civil engineering, land surveying and mapping				
PanGIS	, Inc.	Phone #	(760) 6	583-8335	Fax # (760) 884-3763
	, oangis.com	Contact Person			
				License Type Goods/Service	Business Status es Emerging
NOTE:	GIS Mapping, Archaeology, Environmental Compliance History	e, Land Planning,			
Quartic	Solutions, LLC.	Phone #	(858) 2	272-7075	Fax # (858) 272-3491
	quarticsolutions.com	Contact Person	: Jodi I	Luostarinen	
				License Type	Business Status
				Goods/Service	
NOTF:	General Services				- 2

Rancho Coastal En	gineering & Surveying, Inc.	Phone #	(760) 5	10-3152	Fax # (760) 510-3153
Nora@rcesd.com	ggg,g,g.	Contact Person:			,
				License Type CSD-12 LS	Business Status Emerging Emerging
NOTE: Civil/Struct	cural Engineering & Land Surveying				
Red Tail Monitorin	g & Research, Inc.	Phone #	(760) 8	03-5694	Fax #
info@redtailenviro	nmental.com	Contact Person:	Clint	Linton	
				License Type Goods/Service	
	FICATION CREDIT WILL BE APPLIED TO NAT OGICAL AND PALEONTOLOGICAL MONITO ONLY	•			
Sampo Engineering	g, Inc.	Phone #	(760) 4	36-0660	Fax # (760) 436-0659
vince@sampoengii	neering.com	Contact Person:	Vince	nt Sampo	
				License Type CSD-12 LS	Business Status Emerging Emerging
NOTE: Civil engine	eering, surveying, mapping and planning.				
San Dieguito Engin	eering, Inc.	Phone #	(760) 7	753-5525	Fax # (760) 943-8236
Aaguilar@sdeinc.co	om	Contact Person:	Annie	e Aguilar	
				License Type	Business Status
				CSD-12	Small
	eering, Stormwater Preparation, Surveying, ubsurface Utility Engineering	Mapping, Land			
Southland Surveyir	ng, Inc.	Phone #	(858) 7	'92-5550	Fax # (858) 792-5576
company@southla	ndsurveying.com	Contact Person:	Scott	Fitch	
				License Type	
				LS	Small
NOTE: Land surve	ying, construction staking, topographic and	d aerial mapping			
Stevens Cresto Eng	gineering, Inc.	Phone #	(858) 6	94-5660	Fax # (858) 694-5661
Ilk@scengr.com		Contact Person:	Mark	Stevens	
				License Type CSD-12	Business Status Small
				CSD-12	Small
				LS	Small
NOTE: Civil Engine	eering, Land Planning, Land Surveying				

Terramark Surveying, Inc.	Phone #	(619) 71	.9-6835	Fax #
terramark.surveys@gmail.com	Contact Person:	Robert	t C. Shellman	
			License Type	Business Status
			LS	Small
NOTE: Land Surveying and Mapping				
West Coast Civil, Inc.	Phone #	(858) 86	59-1332	Fax # (858) 761-0001
anthony@westcoastcivil.com	Contact Person:	Antho	ny Gonzalez	
			License Type	Business Status
			CSD-12	Small
NOTE: Civil Engineering services specializing in Land Developm Water-Waste Water Development, Public Improvement		ng,		
Zentih Consultants	Phone #	(619) 52	28-2240	Fax #
alagha@zenith-consultants.com	Contact Person:	Sohaib	Alagha	
			License Type	Business Status
			CSD-12	Emerging
			LS	Emerging
NOTE: Engineering & Land Surveying Services				
541380 Testing Laboratories				
Allied Geotechnical Engineers, Inc.	Phone #	(619) 44	19-5900	Fax # (619) 449-5902
s_sutanto@alliedgeo.org	Contact Person:	Sani Su	utanto	
			License Type	Business Status
			CSD-12	Small
NOTE: Geotechnical Engineering Services (soil mechanics, geo geology, hydrogeology and geo-environmental)	logy, engineering			
Barnett Quality Control Services DBA Nova Services	Phone #	(816) 28	39-0131	Fax #
djbarnett@usa-nova.com	Contact Person:	Danny	J. Barnett, Jr.	
			License Type	Business Status
			Goods/Service	es Small

Limited	d Access Unlimited, Inc. DBA Pacific Drilling Co.	Phone # (619) 2	94-3682 Fax	# (619) 294-3283	
Tod@p	pacdrill.com	Contact Person: Tod W	/. Clark		
			License Type	Business Status	
			В	Small	
			C-57	Small	
NOTE:	Drilling for geotechnical/environmental soil/water/va	por sampling			
Terra \	West, Inc.	Phone # (619) 4	88-3000 Fax	# (619) 568-3475	
roberto	o@terrawestinc.com	Contact Person: Rober	to Tessada		
			License Type	Business Status	
			Goods/Services	Emerging	
NOTE:	Consulting services for compliance with the Construct	ion General Permit			
	and regional water pollution control regulations for co				
	Services include development of Water Pollution Conf (SWPP, WPCP, SWMP, etc)	trol Documentation			
	(SWIT, WICE, SWIVIII, CLC)				
Testing Services & Inspections, Inc. Phone # (619) 234-9904 Fax # (619) 234-4931					
tsi92113@yahoo.com Contact Person: Juan R. Diaz					
			License Type	Business Status	
			Goods/Services	Emerging	
NOTE:	Special Inspection Services and Materials Testing				
	541410 Interior Design Services				
Stormi	e Petoscia DBA SR Consulting	Phone # (858) 8	37-0353 Fax	# (858) 538-0625	
stormi	erp@gmail.com	Contact Person: Storm	ie Petoscia		
			License Type	Business Status	
			Goods/Services	Emerging	
NOTE:	Document management, technical editing, accounting	g support			
	541430 Graphic Design Services				
CityWorks People + Places, Inc. Phone # (619) 238-6009 Fax # (619) 238-6042					
lisa.mu	ırzic@cityworks.biz	Contact Person: Laura	Warner		
			License Type	Business Status	
			ARC	Emerging	
NOTE:	Communications, public outreach, architecture, plann	ing, and graphic design			

Phone # (619) 814-2370 Fax # (619) 814-2375 Cook & Schmid, LLC Jschmid@cookandschmid.com Contact Person: Jon Schmid **License Type Business Status** Goods/Services Small NOTE: Public relations, marketing, advertising, website, video, social media, app & collateral development, interactive technology, graphic design, branding, writing, presentations & planning, trade show booth development, multicultural outreach Fax # (858) 486-1410 Phone # (619) 253-4222 Linh Phan Wong DBA Phantastic Design Lwong@phantasticdesign.com Contact Person: Linh Phan Wong **License Type Business Status** Goods/Services Emerging NOTE: Graphic Design and printing Phone # (619) 800-6101 Fax # Terri Lowry DBA Thallo Design info@thallo.design Contact Person: Terri Lowry **License Type Business Status** Goods/Services **Emerging** NOTE: Graphic Design Studio focused on Branding & Advertising 541490 Other Specialized Design Services Noctiluca Lighting, LLC Phone # (858) 531-6813 Fax # info@noctilucalighting.com Contact Person: Diane Borys **License Type Business Status** Goods/Services **Emerging** NOTE: Architectural and Landscape Lighting Design and Consulting for Commercial and Residental Projects Phone # (858) 278-4503 Fax # (858) 278-4573 Visual Concepts Lighting, Inc. Contact Person: Kenneth M. Perez lperez@visualconcepts-inc.com **Business Status License Type** Goods/Services Emerging NOTE: Electrical Engineering, Lighting Design and Consultation **541511** Custom Computer Programming Services 227 InfoSec, Inc. Phone # (619) 962-6182 Fax # lamar.clapham@227infosec.com Contact Person: Lamar Clapham **License Type Business Status** Goods/Services Emerging NOTE: 227 InfoSec, Inc. is an IT services provider that specializes in cybersecurity testing/assessment, portable communications, and software development.

AscendN, LLC Phone # (619) 971-3576 Fax # travis.nault@ascendn.com Contact Person: Travis Nault **License Type Business Status** Goods/Services Small **NOTE:** SAP & IT Consulting Services Phone # (858) 353-5203 Fax # JH Tech, LLC jay@jhtechllc.com Contact Person: Jayanthy Haripriyan **Business Status License Type** Goods/Services **Emerging** NOTE: IT Consulting, Software Programming, Cloud Services, ITSM/ITIL, Program Management Phone # (650) 292-0331 Fax # LiteScape Technologies Inc. aleksey.feldman@litescape.com Contact Person: Aleksey Feldman **Business Status License Type** Goods/Services **Emerging** NOTE: Enterprise Software for Voice over IP devices and distributor of telephone enclosures, IP speakers, Secure control devices such as RFID/BIO readers. Phone # (619) 948-4066 Fax # Radinnova, Inc. sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli **Business Status License Type** Goods/Services **Emerging NOTE:** SAP Software Consulting Services Phone # (510) 402-7121 Fax # **ZVenture Consulting, LLC** Contact Person: Kavitha Sabaapathy kaviez@gmail.com **License Type Business Status** Α **Emerging** NOTE: Software consulting and Staffing services 541512 Computer Systems Design Services Phone # (619) 736-2800 Fax # **Fusion Engineering and Technology** contactus@fusionengtech.com Contact Person: Chris Schildmeier **Business Status License Type** CSD-12 **Emerging** NOTE: Fusion Engineering and Technology provides professional civil engineering services and information technology

info@imaginemediagroup.com Contact Person: Emil Arguelles License Type Goods/Services Emerging NOTE: IT Services, Network Engineering, Desktop Support, Software Development, Web Development Quartic Solutions, LLC. Phone # (858) 272-7075 Fax # (858) 272-34 Timo@quarticsolutions.com Contact Person: Jodi Luostarinen License Type Business Statt Goods/Services Emerging NOTE: General Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Statt Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji Anand License Type Business Statt Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # Kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statt	info@imaginemediagroup.com Contact Person: Contact Person: License Type Goods/Services Emerging						
License Type Goods/Services Emerging NOTE: IT Services, Network Engineering, Desktop Support, Software Development, Web Development Quartic Solutions, LLC. Phone # (858) 272-7075 Fax # (858) 272-34 Timo@quarticsolutions.com Contact Person: Jodi Luostarinen License Type Business State Goods/Services Emerging NOTE: General Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business State Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji Anand License Type Business State Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business State Goods/Services Emerging	NOTE: IT Services, Network Engineering, Desktop Support, Software Development, Web Development (Web Development (Web Development) Quartic Solutions, LLC. Phone # (858) 272-7075 Fax # (858) 272-349 Timo@quarticsolutions.com Contact Person: Jodi Luostarinen License Type Business Status Goods/Services Emerging NOTE: General Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji Anand License Type Business Status Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # Kavita Sabaapathy License Type Business Status Goods/Services Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Contact Person: Sobhanadri Vemulapalli License Type Business Status A Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging License Type Business Status A Emerging	Imagine Media Group, LLC. DBA IMG Networks	Phone # (619) 40	07-4180 Fax	# (619) 422-1060		
NOTE: IT Services, Network Engineering, Desktop Support, Software Development, Web Development Quartic Solutions, LLC. Phone # (858) 272-7075 Fax # (858) 272-34 Timo@quarticsolutions.com Contact Person: Jodi Luostarinen License Type Business State Goods/Services Emerging NOTE: General Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business State Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji Anand License Type Business State Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business State Goods/Services Emerging	NOTE: IT Services, Network Engineering, Desktop Support, Software Development, Web Development Quartic Solutions, LLC. Phone # (858) 272-7075 Fax # (858) 272-349 Timo@quarticsolutions.com Contact Person: Jodi Luostarinen License Type Goods/Services Emerging NOTE: General Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Business Status Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # Kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status Goods/Services Emerging NOTE: Software consulting and Staffing services Sobhanadri Vemulapalli License Type Business Status A Emerging NOTE: Software consulting and Staffing services Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging License Type Business Status A Emerging License Type Business Status A Emerging License Type Business Status A Emerging License Type Business Status Emerging License Type Business Status Emerging	info@imaginemediagroup.com	Contact Person: Emil Arguelles				
NOTE: IT Services, Network Engineering, Desktop Support, Software Development, Web Development Quartic Solutions, LLC.	NOTE: T Services, Network Engineering, Desktop Support, Software Development, Web Development Quartic Solutions, LLC. Phone # (858) 272-7075 Fax # (858) 272-349 Contact Person: Jodi Luostarinen License Type Goods/Services Emerging NOTE: General Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji Anand License Type Business Status Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # Contact Person: Kavitha Sabaapathy License Type Business Status Goods/Services Emerging NOTE: Software consulting and Staffing services ZVenture Consulting and Staffing services Software consulting and Staffing services Radinnova, Inc. Phone # (619) 948-4066 Fax # Contact Person: Sobhanadri Vemulapalli License Type Business Status Sobhanadri Vemulapalli				Business Status		
Web Development Quartic Solutions, LLC.	Quartic Solutions, LLC. Phone # (858) 272-7075 Fax # (858) 272-349 Contact Person: Jodi Luostarinen License Type Goods/Services Emerging NOTE: General Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanadri Vemulapalli License Type Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Software consulting and Staffing services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # Contact Person: Ciji Anand License Type Business Status Emerging NOTE: Software consulting and Staffing services ZVenture Consulting Anand Staffing services Software consulting and Staffing services Fatis 19 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Contact Person: Sobhanadri Vemulapalli License Type Business Status Sobhanadri Vemulapalli			Goods/Services	Emerging		
Timo@quarticsolutions.com Contact Person: Jodi Luostarinen License Type Goods/Services Emerging NOTE: General Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanadri Vemulapalli License Type Business Statu Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Business Statu Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu Kavitha Sabaapathy License Type Business Statu	Timo@quarticsolutions.com Contact Person: Jodi Luostarinen License Type Goods/Services Emerging NOTE: General Services Radinnova, Inc. Sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji Anand License Type Business Status Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # Kavita Sabaapathy License Type Business Status Goods/Services Emerging NOTE: Software consulting and Staffing services Software consulting and Staffing services Software consulting and Staffing services Fadinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging		ftware Development,				
License Type Goods/Services Emerging NOTE: General Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Business State Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business State Goods/Services Emerging	License Type Goods/Services Emerging	Quartic Solutions, LLC.	Phone # (858) 23	72-7075 Fax	# (858) 272-3491		
Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Statu Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Business Statu Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu	Radinnova, Inc. Sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Goods/Services Fenerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # Kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status A Emerging NOTE: Software consulting and Staffing services Sobhanv@radinnova, Inc. Phone # (619) 948-4066 Fax # Contact Person: Sobhandri Vemulapalli License Type Business Status A Emerging NOTE: Software consulting and Staffing services Sobhandri Vemulapalli License Type Business Status A Emerging NOTE: Software Consulting and Staffing services Sobhandri Vemulapalli License Type Business Status Emerging License Type Business Status Emerging Sobhandri Vemulapalli License Type Business Status Emerging	Timo@quarticsolutions.com	Contact Person: Jodi Lu	uostarinen			
NOTE: General Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Statu Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji Anand License Type Business Statu Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu	Radinnova, Inc. Radinnova, Inc. Radinnova, Inc. Radinnova, Inc. Robhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Goods/Services Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Radinnova, Inc. Radinnova, Inc. Software consulting and Staffing services Femerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Radinnova, License Type Business Status A Emerging NOTE: Software consulting and Staffing services Fals19 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging			License Type	Business Status		
Radinnova, Inc. sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu Ravitha Sabaapathy License Type Business Statu Ravitha Sabaapathy License Type Business Statu	Radinnova, Inc. sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Business Status Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Rhone # (510) 402-7121 Fax # Kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status A Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging			Goods/Services	Emerging		
Sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Business Statu Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu	Sobhanadri Vemulapalli License Type Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status Goods/Services Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging License Type Business Status Goods/Services Emerging	NOTE: General Services					
License Type Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Business Statu Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu	License Type Goods/Services Emerging NOTE: SAP Software Consulting Services Zora Analytics, LLC Phone # (248) 730-1370 Fax # Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status Goods/Services Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging	Radinnova, Inc.	Phone # (619) 94	48-4066 Fax	#		
NOTE: SAP Software Consulting Services Zora Analytics, LLC Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu	NOTE: SAP Software Consulting Services Zora Analytics, LLC Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Business Status Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Rhone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status A Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging	sobhanv@radinnova.com	Contact Person: Sobha	ınadri Vemulapalli			
Zora Analytics, LLC Phone # (248) 730-1370 Fax # Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Business Statu Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu	Zora Analytics, LLC Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # Kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status A Emerging NOTE: Software consulting and Staffing services F41519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanadri Vemulapalli License Type Business Status Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging				Business Status Emerging		
Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Raviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu	Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Raviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status A Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging	NOTE: SAP Software Consulting Services					
Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu	Ciji@zoraanalytics.com Contact Person: Ciji Anand License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status A Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging	Zora Analytics, LLC Phone # (248) 730-1370 Fax #					
License Type Goods/Services Emerging NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu	NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Raviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status Ravitha Sabaapathy License Type Business Status A Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhandri Vemulapalli License Type Business Status Contact Person: Sobhandri Vemulapalli License Type Business Status Goods/Services Emerging						
NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business State	NOTE: Provide Information Technology Consulting services ZVenture Consulting, LLC Raviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status A Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging				Business Status		
ZVenture Consulting, LLC Phone # (510) 402-7121 Fax # kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business State	ZVenture Consulting, LLC Rhone # (510) 402-7121 Fax # Raviez@gmail.com Contact Person: Kavitha Sabaapathy License Type A Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging			Goods/Services	Emerging		
kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Statu	kaviez@gmail.com Contact Person: Kavitha Sabaapathy License Type Business Status A Emerging NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging	NOTE: Provide Information Technology Consulting services					
License Type Business Statu	NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Contact Person: Goods/Services Emerging	ZVenture Consulting, LLC	Phone # (510) 40	02-7121 Fax	#		
,, , , , , , , , , , , , , , , , , , ,	NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging	kaviez@gmail.com	Contact Person: Kavith	na Sabaapathy			
	NOTE: Software consulting and Staffing services 541519 Other Computer Related Services Radinnova, Inc. Phone # (619) 948-4066 Fax # sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging			License Type	Business Status		
A Emerging	Sobhanv@radinnova.com Phone # (619) 948-4066 Fax # Sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging			Α	Emerging		
NOTE: Software consulting and Staffing services	Radinnova, Inc. Phone # (619) 948-4066 Fax # Sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging	NOTE: Software consulting and Staffing services					
541519 Other Computer Related Services	sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli License Type Business Status Goods/Services Emerging	541519 Other Computer Related Services					
Radinnova, Inc. Phone # (619) 948-4066 Fax #	License Type Business Status Goods/Services Emerging						
sobhanv@radinnova.com Contact Person: Sobhanadri Vemulapalli	Goods/Services Emerging	sobhanv@radinnova.com	Contact Person: Sobha	ınadri Vemulapalli			
License Type Business Statu				License Type	Business Status		
Goods/Services Emerging				Goods/Services	Emerging		
	NOTE: SAP Software Consulting Services	NOTE: SAP Software Consulting Services					

Talosys, Inc. Phone # (858) 286-7099 Fax #

ruby@talosys.io Contact Person: Ruby Sarda

License Type Business Status
No License Emerging

NOTE: TALOSYS provides wireless Internet of Things solutions for healthcare, cities, facilities management, industry, and agriculture. The systems are an integration of sensor hardware, embedded software, long-range radio frequency technology, cloud software, a

541600 Management, Scientific, and Technical Consulting Services

TGR Management Consulting, LLC Phone # (858) 224-2574 Fax #

tiffany@tgrmanagementconsulting.com Contact Person: Tiffany Gutraj Rosik

License Type Business Status
Goods/Services Emerging

NOTE: TGR Management Consulting provides strategic planning for technology portfolios as well as project management and systems analysis for the full implementation of business-critical systems. This includes technology consulting for CRM implementation, ERP im

541611 Administrative Management and General Management Consulting Services

Acrostic Phone # (619) 229-6090 Fax #

jwebber@acrosticservices.com Contact Person: Joe Webber

License Type Business Status

Goods/Services Small

NOTE: Construction management, project management, estimating, scheduling,

document control, project support, plan review, construction administration

Afsaneh Sunnie House DBA Sunnie House Strategies Phone # (619) 787-3777 Fax #

sunnie@shousestrategies.com Contact Person: Afasneh Sunnie House

License Type Business Status
CSD-12 Small

NOTE: Providing management solutions and strategic and business development

planning to help organizations optimize and grow.

Agiletee, Inc Phone # (619) 537-6219 Fax #

phuong@agiletee.com Contact Person: Phuong T. Zahirovic

License Type Business Status
Goods/Services Emerging

NOTE: Agiletee, Inc provides program and project management services. Our expertise includes project controls services, cost estimating, and scheduling

Phone # (858) 837-0749 Fax # Belcourt Engineering Group, LLC mbelcourtois@aol.com Contact Person: Mohamed Adjroud **License Type Business Status** Goods/Services Small NOTE: Professional Technical Services/Construction Management, Quality Control Management, Construction Inspections, Project Management Phone # (619) 527-1668 Fax # (619) 527-1698 Black IPO Wrstemley@aol.com Contact Person: Wendell Stemley **License Type Business Status** Goods/Services Small NOTE: Construction Manager, concrete and rebar Phone # (858) 243-9928 Fax # Civetta Design, LLC gina@civettadesign.com Contact Person: Regina Fischbach **Business Status License Type** Goods/Services Emerging NOTE: Utility electric distribution design, consulting Phone # (213) 716-6933 Fax # **Dixon Resources Unlimited** Contact Person: Julie Dixon julie@dixonresourcesunlimited.com **License Type Business Status** Goods/Services **Emerging** NOTE: Management consulting services, including but not limited to municipal parking, parking lots and garages. Phone # (760) 533-3500 Fax # Jeffrey Puzzullo Contact Person: Jeffrey Puzzullo jpuzzullo@puzzullo.com **License Type Business Status** Goods/Services **Emerging** NOTE: Project and Construction Management, Project Controls, CPM Scheduling and Cost Estimating Phone # (858) 538-8518 Fax # KDPM Consulting, Inc. Contact Person: Kimberly DeMartino kimberly.demartino@kdpmconsulting.com **License Type Business Status** Goods/Services **Emerging** NOTE: KDPM Consulting provide full-service Program/Project Management support services from project initiation to production and deployment. We manage small to large complex technical programs and execution to ensure adherence to budget, schedule, scope and qua

Phone # (760) 424-9334 Fax # Krystal L. Merical DBA KLM Project Insights Mericalkl@gmail.com Contact Person: Krystal L. Merical **License Type Business Status** Goods/Services **Emerging** NOTE: Project Controls (schedule and cost) services for projects and programs. Phone # (619) 501-2645 La Salle Solutions, Inc Fax # (619) 501-2645 Contact Person: Dennis R. La Salle, Sr.; Dennis La Salle II lasalle.calif@gmail.com **Business Status License Type** Goods/Services **Emerging** NOTE: Construction Management, Quality Control Management, Construction Inspections, Project Management Phone # (619) 546-7885 Fax # Nesso Strategies, Inc judy@nessostrategies.com Contact Person: Judith A Hissong **License Type Business Status** Goods/Services **Emerging** NOTE: We are a speaking, training, consulting and facilitation firm that specializes in communication and conflict management, leadership development, accountability, and diversity and inclusion. Phone # (760) 438-4354 Fax # (760) 438-4355 Novus Origo, Inc. paul.cevolani@novusorigo.com Contact Person: Paul Cevolani **Business Status License Type** Goods/Services **Emerging** NOTE: Human performance, professional training development, project management, change management and process improvement Orbital Project Management, LLC Phone # (559) 750-9340 Fax # jheffler@orbitalpm.com Contact Person: Jennifer Heffler **License Type Business Status** Goods/Services **Emerging** NOTE: Program and project management, PMO set-up services for engineering firms and utilities infrastructure upgrades. Overall Consulting, LLC Phone # (951) 258-9265 Fax # scarrico@overall-consulting.com Contact Person: Scott Carrico **License Type Business Status** Goods/Services Small NOTE: Scheduling and Planning Consulting Services for General Contractors for construction projects

Phone # (619) 453-1393 Fax # **Premier Consultant Services** tiffany@premierconserv.com Contact Person: Tiffany Hilborn **License Type Business Status** Goods/Services Small NOTE: Premier is a full-service project management, construction management, and administrative management firm specializing in augmenting the staffing need. We also offer compaction /asphalt testing & NDT/CWI testing. Pride Resource Partners, LLC Phone # (619) 255-9257 Fax # joe.maak@prideresourcepartners.com Contact Person: Joe Maak **License Type Business Status** В Small Α Small NOTE: Providing as needed construction project management, facilities planning and staff augmentation. Phone # (619) 905-5522 Fax # (888) 638-1504 SchneiderCM, Inc. Contact Person: Carl Schneider carl.schneider@schneidercm.net **License Type Business Status** Goods/Services Small NOTE: Construction management, project management, estimating, scheduling, document control, project support, plan review, construction administration Phone # (619) 933-4755 Fax # (619) 828-6880 US Access Consultants, Inc. corina@usaccessconsultants.com Contact Person: Corina Wilkes **License Type Business Status** CSD-01 **Emerging** NOTE: US Access Consultants, Inc., is an accessibility consulting firm located in La Mesa, California. 541612 Human Resources and Executive Search Consulting Services

Nesso Strategies, Inc

judy@nessostrategies.com

Contact Person:

License Type
Business Status
Goods/Services
Emerging

NOTE: We are a speaking, training, consulting and facilitation firm that specializes in communication and conflict management, leadership development, accountability, and diversity and inclusion.

541613 Marketing Consulting Services

Phone # (858) 635-8900 Fax # BrainShine, Inc. blaise@brainshine.com Contact Person: Blaise Nauyokas **License Type Business Status** Goods/Services **Emerging** NOTE: Brand Development and Marketing Agency CityWorks People + Places, Inc. Phone # (619) 238-6009 Fax # (619) 238-6042 Contact Person: Laura Warner lisa.murzic@cityworks.biz **License Type Business Status** ARC **Emerging** NOTE: Communications, public outreach, architecture, planning, and graphic design Phone # (619) 814-2370 Fax # (619) 814-2375 Cook & Schmid, LLC Jschmid@cookandschmid.com Contact Person: Jon Schmid **License Type Business Status** Goods/Services Small NOTE: Public relations, marketing, advertising, website, video, social media, app & collateral development, interactive technology, graphic design, branding, writing, presentations & planning, trade show booth development, multicultural outreach Phone # (858) 735-2922 Fax # (000) 000-0000 Gabriela Dow DBA Mora Dow Consulting gabriela@moradowconsulting.com Contact Person: Gabriela Dow **License Type Business Status** Goods/Services **Emerging** NOTE: San Diego-based consulting firm specializing in strategic planning, community relations, public affairs and business outreach. Civil engineering, program management, construction management and project controls also offered as part of comprehensive manage Phone # (619) 208-2499 Fax # Kristen M. Byrne DBA Byrne Communications Consulting kristen@byrne-comm.com Contact Person: Kristen M. Byrne **License Type Business Status** Goods/Services **Emerging** NOTE: Byrne Communications Consulting provides public affairs and strategic communications services, including public outreach and engagement, public relations and communications, government relations, workshop

planning/implementation, and facilitation

Positraction, Inc.

Phone # (844) 652-4400 Fax #

lynne@positraction.com Contact Person: Lynne Arciero

License Type Business Status

Goods/Services Emerging

NOTE: Strategic marketing services including design, photo, video, digital

marketing, events, public relations, website, social media

Reema Boccia DBA Two Rivers Strategies Phone # (619) 726-2179 Fax #

Reema@TwoRiversPR.com Contact Person: Reema Makani Boccia

License Type Business Status
Goods/Services Emerging

NOTE: Public Relations, Community Outreach, Technical and Creative Writing,

Proposal Writing

Team Phun, LLC Phone # (858) 598-5563 Fax #

sean@teamphun.com Contact Person: Sean Burns

License Type Business Status
Goods/Services Emerging

NOTE: We are a full service marketing agency combining products and services into wearable, print, and promotional products distributed via digital websites, and fulfilled through our warehouses.

541618 Other Management Consulting Services

EFS Engineering, Inc.

Phone # (619) 688-1495 Fax #

Skip@efs-engineering.com Contact Person: Eugene F. Shank

License Type Business Status
CSD-12 Emerging

NOTE: Professional engineering consulting services, including: assessment engineering & special district consulting, rate studies & impact fees,

planning & feasibility studies, and project management.

Premier Consultant Services Phone # (619) 453-1393 Fax #

tiffany@premierconserv.com Contact Person: Tiffany Hilborn

License Type Business Status
Goods/Services Small

NOTE: Premier is a full-service project management, construction management, and administrative management firm specializing in augmenting the staffing need. We also offer compaction /asphalt testing & NDT/CWI testing.

Phone # (619) 255-9257 Fax # Pride Resource Partners, LLC joe.maak@prideresourcepartners.com Contact Person: Joe Maak **License Type Business Status** В Small Small Α NOTE: Providing as needed construction project management, facilities planning and staff augmentation. Phone # (619) 905-5522 Fax # (888) 638-1504 SchneiderCM, Inc. Contact Person: Carl Schneider carl.schneider@schneidercm.net **License Type Business Status** Goods/Services Small NOTE: Construction management, project management, estimating, scheduling, document control, project support, plan review, construction administration 541620 Environmental Consulting Services Phone # (619) 449-5900 Fax # (619) 449-5902 Allied Geotechnical Engineers, Inc. s sutanto@alliedgeo.org Contact Person: Sani Sutanto **License Type Business Status** CSD-12 Small NOTE: Geotechnical Engineering Services (soil mechanics, geology, engineering geology, hydrogeology and geo-environmental) Balk Biological, Inc. Phone # (760) 672-4559 Fax # mbalk@balkbiological.com Contact Person: Michelle Balk **License Type Business Status** Goods/Services **Emerging** NOTE: Biological consulting services including vegetation community mapping, special-status plant and wildlife surveys, wetlands delineation and permitting, environmental document preparation, compliance monitoring during construction. Phone # (858) 922-8604 Fax # (858) 564-8893 Baranek Consulting Group, Inc. baranekconsulting@san.rr.com Contact Person: Kimberly C. Baranek **License Type Business Status** Goods/Services Small NOTE: CEQA NEPA, Environmental Studies, Technical Studies, Land Use,

Aesthetics/Visual Quality, Waste Management Plans, Environmental Permits

Black Sage Environmental, Inc. Phone # (619) 876-0745 Fax #								
jallen@blacksageenvironmental.com Contact Person: Jason W. Allen								
				License Type	Business Status			
				C-27	Emerging			
NOTE:	Natural Resource Management and Environmental Pr	otetction						
Blackha	Blackhawk Environmental, Inc. Phone # (619) 972-7932 Fax #							
Seth@blackhawkenv.com Contact Person: Seth Reimers								
				License Type Goods/Services	Business Status Small			
NOTE:	Environmental consulting services							
BLP En	gineers, Inc.	Phone # (76	60) 45	8-1016 F	ax # (619) 839-0346			
Blp.eng	g.inc@gmail.com	Contact Person: B	Boris P	astushenko				
				License Type	Business Status			
				CSD-12	Small			
NOTE:	Environmental engineering and planning services to nindustrial clients	nunicipal, federal and	i					
Busby Biological Services, Inc. Phone # (858) 999-2021 Fax # (000) 000-0000								
Busbybiological@gmail.com Contact Person: Melissa Busby								
				License Type	Business Status			
				Goods/Services	s Emerging			
NOTE:	Busby Biological Services, Inc. (BBS) is a San Diego-base consulting firm that provides high quality, objective nexpertise and innovative solutions to complex environ public- and private-sector clients	atural resource						
Christin	ne L. Harvey DBA Leopold Biological Services	Phone # (61	19) 24	9-2531 F	ax #			
Charvey@leopoldbiological.com Contact Person: Christine L. Harvey								
				License Type Goods/Services	Business Status Emerging			
NOTE:	Natural resource management and implementing CEC We provide endangered and special status species ne delineation, environmental permitting, environmenta and biological monitoring	st monitoring, wetlan						
Donald C. Williams DBA Compliance Monitoring Services Phone # (619) 276-5470 Fax # (000) 000-0000								
Clint_cms@hotmail.com Clint@san.rr.com Contact Person: Donald Clinton Williams								
				License Type	Business Status			
				GEO	Emerging			
NOTE:	Environmental, Groundwater and Geological Consulti	ng and Services						

FMF Pandion	Phone # (760) 40	05-6805 Fax	(#
sales@fmfpandion.com	Contact Person: Tomm	ny Wells	
		License Type Goods/Services	Business Status Emerging
NOTE: Environmental Consulting			
Helenschmidt Geotechnical, Inc.	Phone # (760) 57	79-0333 Fax	# (760) 579-0230
engineering.hgi@sbcglobal.net	Contact Person: Stanle	y Helenschmidt	
		License Type	Business Status
		CSD-12	Emerging
		CSD-20	Emerging
NOTE: Geotechnical hazard mitigation, subsurface investigation observation & testing, soil stabilization, foundation & geologic hazard mapping, & seismic design.	. •		
IO Environmental & Infrastructure, Inc.	Phone # (619) 28	80-3278 Fax	# (619) 677-5648
kathym@iosdv.com	Contact Person: Kathy	Monroe	
		License Type	Business Status
		Α	Small
		C-27	Small
		HAZ	Small
		ASB	Small
NOTE: Professional Services			
Laguna Mountain Environmental, Inc.	Phone # (858) 50	05-8164 Fax	# (858) 505-9658
Andrew@lagunaEnv.com	Contact Person: Andre	w R. Pigniolo	
		License Type	Business Status
		Goods/Services	Small
NOTE: SLBE CERTIFICATION CREDIT WILL BE APPLIED TO AR MONITORING ONLY	CHEOLOGICAL		
Loveless Linton, Inc DBA Loveless & Linton Consulting - Archaeological, Inc.	Phone # (619) 92	22-0718 Fax	(#
rebekah@loveless-linton.com	Contact Person: Rebek	ah Loveless	
		License Type	Business Status
		Goods/Services	Small
NOTE: Environmental mitigation and monitoring, specificall osteology and Native American	y archaeology, human		

Phone # (760) 747-9553 Fax # (760) 747-9553 Mann.King: Engineers Inc. DBA DHK Engineers Dhkeng1@sbcglobal.net Contact Person: Donald H. King **License Type Business Status** CSD-14 Emerging CSD-12 Emerging М **Emerging** NOTE: Consulting Services: Energy, Odor Control, Air Quality, Mechanical HVAC, Noise Phone # (619) 443-3811 Fax # (619) 443-3459 McGrath Holdings, Inc. DBA McGrath Consulting Mwm@mcswppp.com Contact Person: Michael McGrath **Business Status License Type** Goods/Services **Emerging NOTE:** Water Quality Consulting Merkel & Associates, Inc. Phone # (858) 560-5465 Fax # krogers@merkelinc.com Contact Person: Barbara Lynn Merkel **License Type Business Status** Goods/Services Small C-27 Small NOTE: Biological Consulting, Environmental Permitting, Habitat Restoration, **Ecological Management** Phone # (858) 987-4169 Fax # Mikhail Ogawa Engineering, Inc DBA MOE 13@mogawaeng.com Contact Person: Mikahail Ogawa **License Type Business Status** CSD-12 **Emerging** NOTE: MOE provides a variety of environmental and environmental engineering services for municipalities and utilities. Services focus on fulfillment of stormwater programmatic and regulatory requirements, capital project management and construction management. Phone # (425) 502-1920 Fax # Newport Environmental, LLC acharyap@newportenviron.com Contact Person: Parshuram Acharya **License Type Business Status** Goods/Services **Emerging** NOTE: Environmental and Biological Services, Wetland and Streams Assessment, Delineation, Botany and plant survey, Wildlife assessment and survey, Regulatory permitting, Vegetation survey & management, CEQA, NEPA, Nesting bird survey, Tree Assessment and invent

Phone # (760) 683-8335 Fax # (760) 884-3763 PanGIS, Inc. alice@pangis.com Contact Person: Alice Brewster **License Type Business Status** Goods/Services **Emerging** NOTE: GIS Mapping, Archaeology, Environmental Compliance, Land Planning, History Phone # (619) 564-6906 Fax # Paradigm Environmental, Inc. steve@paradigmh2o.com Contact Person: Stephen Carter **License Type Business Status** CSD-12 Small NOTE: Stormwater and Water Quality Engineering, watershed strategic planning, modeling, and web-based tools. Phone # (760) 803-5694 Fax # Red Tail Monitoring & Research, Inc. info@redtailenvironmental.com Contact Person: Clint Linton **License Type Business Status** Goods/Services **Emerging** NOTE: SLBE CERTIFICATION CREDIT WILL BE APPLIED TO NATIVE AMERICAN, ARCHAEOLOGICAL AND PALEONTOLOGICAL MONITORING, AND GIS SERVICES ONLY Phone # (619) 701-6798 Fax # **Rocks Biological Consulting** Melanie@rocksbio.com Contact Person: Melanie Rocks **License Type Business Status** Goods/Services **Emerging** NOTE: Biological consulting, including general biological surveys, habitat assessments, special-status species surveys, biological report preparation, wetland delineation, permitting, construction monitoring, restoration planning, etc Phone # (619) 991-8968 Fax # (619) 296-0164 Schaefer Ecological Solutions schaeferecology@cox.net Contact Person: Christina M. Schaefer **Business Status License Type** Goods/Services **Emerging** NOTE: A/E consulting services, environmental consulting, habitat restoration, regulatory permitting, biological assessments, resources management and conservation planning, expert testimony

Phone # (760) 239-9611 Fax # **Scout Environmental** ryan.pingree@scoutenv.com Contact Person: Ryan Pingree **License Type Business Status** Goods/Services **Emerging** NOTE: Environmental consulting services to include: National Environmental Policy Act (NEPA) compliance, California Environmental Quality Act compliance, Environmental Compliance Assessments, Environmental Engineering, **Environmental Condition of Property Assess** Phone # (858) 333-7202 Fax # Spindrift Archaeological Consulting arleen@spindriftarchaeology.com Contact Person: Arleen Garcia-Herbst **Business Status License Type** Goods/Services **Emerging** NOTE: Cultural Resources Compliance and Mitigation Monitoring Fax # (619) 568-3475 Phone # (619) 488-3000 Terra West, Inc. roberto@terrawestinc.com Contact Person: Roberto Tessada **License Type Business Status** Goods/Services **Emerging** NOTE: Consulting services for compliance with the Construction General Permit and regional water pollution control regulations for construction sites. Services include development of Water Pollution Control Documentation (SWPP, WPCP, SWMP, etc) Phone # (858) 513-1469 Fax # (858) 513-1609 The Bodhi Group, Inc. Sree@thebodhigroup.com Contact Person: Sreekumar Gopinath **License Type Business Status** CSD-12 **Emerging** Α **Emerging** HAZ **Emerging** NOTE: Phone # (858) 578-9064 Fax # (858) 578-3646 Tierra Environmental Services, Inc. Contact Person: Dr. Michael Baksh Tierraenv@aol.com **Business Status License Type** Goods/Services **Emerging** NOTE: Goods, Materials Services, Cultural Resources, Consulting Services Phone # (619) 200-1577 Fax # (619) 265-7995 TTG Environmental & Associates, Corp. Contact Person: Teresa Wilkinson ttgenvironmental@gmail.com **Business Status License Type** Goods/Services Small NOTE: Environmental consulting services

Urbana Preservation & Planning, LLC Phone # (619) 543-0693 Fax # (800) 880-4434

Wendy@urbanapreservation.com Contact Person: Wendy L. Tinsley Becker

License Type Business Status

Goods/Services Small

NOTE: Consulting firm offering specialized urban planning, historic preservation, history and architectural history services throughout the western United States.

Whitson Contracting & Management, Inc. Phone # (858) 673-0966 Fax # (858) 487-8355

Mitch@whitsoncm.com Contact Person: Mitchel James Whitson

License Type Business Status
A Small

NOTE: General Contractor approved to provide services for naics codes 237110 and 541620 only.

541690 Other Scientific and Technical Consulting Services

Blackhawk Environmental, Inc. Phone # (619) 972-7932 Fax #

Seth@blackhawkenv.com Contact Person: Seth Reimers

License Type Business Status
Goods/Services Small

NOTE: Environmental consulting services

Busby Biological Services, Inc. Phone # (858) 999-2021 Fax # (000) 000-0000

Busbybiological@gmail.com Contact Person: Melissa Busby

License Type Business Status
Goods/Services Emerging

NOTE: Busby Biological Services, Inc. (BBS) is a San Diego-based environmental consulting firm that provides high quality, objective natural resource expertise and innovative solutions to complex environmental issues for public- and private-sector clients

Christine L. Harvey DBA Leopold Biological Services Phone # (619) 249-2531 Fax #

Charvey@leopoldbiological.com Contact Person: Christine L. Harvey

License Type Business Status
Goods/Services Emerging

NOTE: Natural resource management and implementing CEQA/NEPA compliance. We provide endangered and special status species nest monitoring, wetland delineation, environmental permitting, environmental document support and biological monitoring

GC Gre	en, Incorporated	Phone # (855) 42	24-8387 Fax	#
Liz@gcg	green.com	Contact Person: Elizabe	eth Perez	
			License Type	Business Status
			Goods/Services	Small
NOTE:	GC Green is a "Veteran-Powered" certified Woman, N Service-Disabled Veteran owned company. Our consu construction services are focused on clean energy, res	Iting services and		
Marine	Taxonomic Services, Ltd.	Phone # (858) 23	32-1958 Fax	#
seth@c	onsultmts.com	Contact Person: Seth Jo	ones	
			License Type	Business Status
			Goods/Services	Small
NOTE:	Environmental consulting services			
Schaefe	er Ecological Solutions	Phone # (619) 99	91-8968 Fax	# (619) 296-0164
schaefe	recology@cox.net	Contact Person: Christi	na M. Schaefer	
			License Type	Business Status
			Goods/Services	Emerging
NOTE:	A/E consulting services, environmental consulting, hal regulatory permitting, biological assessments, resource conservation planning, expert testimony			
Snyder	Geologic, Inc	Phone # (858) 41	12-9848 Fax	#
scott@s	snydergeologic.com	Contact Person: Willian	n Scott Snyder	
			License Type	Business Status
			GEO	Small
			CSD-22	Small
NOTE:	We provide environmental, groundwater, and stormw services	rater consulting		
Southw	est Hydro Analytics, Inc	Phone # (619) 60	06-7176 Fax	#
epadilla	@shydro.com	Contact Person: Emma	nuel Padilla	
			License Type	Business Status
			Goods/Services	Emerging
NOTE:	Water Resources Consulting Including Stormwater Ma Scientific Services	nagement and		

541720 Research and Development in the Social Sciences and Humanities

Jose Aguilar DBA Meridian Archeological Services Research Phone # (619) 755-9625 Fax #

dos_calacas@hotmail.com Contact Person: Jose Aguilar

License Type Business Status
Goods/Services Emerging

NOTE: SLBE CERTIFICATION CREDIT WILL BE APPLIED TO ARCHAEOLOGICAL

MONITORING ONLY Cultural resource management, archaeological surveys,

monitoring, and excavation

Loveless Linton, Inc DBA Loveless & Linton Consulting - Phone # (619) 922-0718 Fax #

Archaeological, Inc.

rebekah@loveless-linton.com Contact Person: Rebekah Loveless

License Type Business Status
Goods/Services Small

NOTE: Environmental mitigation and monitoring, specifically archaeology, human

osteology and Native American

NWB Environmental Services, LLC Phone # (619) 546-5196 Fax #

mtaylor@nwbenvironmental.com Contact Person: Michael Taylor

License Type Business Status

Goods/Services Small

NOTE:

Red Tail Monitoring & Research, Inc.

Phone # (760) 803-5694

Fax #

info@redtailenvironmental.com Contact Person: Clint Linton

License Type Business Status
Goods/Services Emerging

NOTE: SLBE CERTIFICATION CREDIT WILL BE APPLIED TO NATIVE AMERICAN,

ARCHAEOLOGICAL AND PALEONTOLOGICAL MONITORING, AND GIS

SERVICES ONLY

541810 Advertising Agencies

BrainShine, Inc. Phone # (858) 635-8900 Fax #

blaise@brainshine.com Contact Person: Blaise Nauyokas

License Type Business Status
Goods/Services Emerging

NOTE: Brand Development and Marketing Agency

CityWorks People + Places, Inc. Phone # (619) 238-6009 Fax # (619) 238-6042

lisa.murzic@cityworks.biz Contact Person: Laura Warner

ARC Emerging

NOTE: Communications, public outreach, architecture, planning, and graphic design

Cook & Schmid, LLC Phone # (619) 814-2370 Fax # (619) 814-2375

Jschmid@cookandschmid.com Contact Person: Jon Schmid

License Type Business Status
Goods/Services Small

NOTE: Public relations, marketing, advertising, website, video, social media, app & collateral development, interactive technology, graphic design, branding, writing, presentations & planning, trade show booth development, multicultural outreach

541820 Public Relations Agencies

Action Research Phone # (760) 722-4000 Fax # (760) 722-4005

tabanico@actionresearch-inc.com Contact Person: Jennifer J. Tabanico

License Type Business Status
Goods/Services Emerging

NOTE: Survey development, focus groups, outreach campaigns, message development, behavior change strategies, program evaluation, statistical analysis

CityWorks People + Places, Inc. Phone # (619) 238-6009 Fax # (619) 238-6042

lisa.murzic@cityworks.biz Contact Person: Laura Warner

License Type Business Status
ARC Emerging

NOTE: Communications, public outreach, architecture, planning, and graphic design

Cook & Schmid, LLC Phone # (619) 814-2370 Fax # (619) 814-2375

Jschmid@cookandschmid.com Contact Person: Jon Schmid

License Type Business Status
Goods/Services Small

NOTE: Public relations, marketing, advertising, website, video, social media, app & collateral development, interactive technology, graphic design, branding, writing, presentations & planning, trade show booth development, multicultural outreach

Douglas Matheson DBA Douglas Matheson & Co Phone # (760) 431-0652 Fax #

dm@mathesonco.com Contact Person: Douglas Matheson

License Type Business Status
Goods/Services Emerging

NOTE: Public Relations, Real Estate

Focuscom, Inc Phone # (619) 233-7778 Fax #

lisa.hom@focuscominc.com Contact Person: Danny Hom

License Type Business Status
Goods/Services Emerging

NOTE: Public Relations/Governmental Affairs/IT Management

Phone # (858) 735-2922 Fax # (000) 000-0000 Gabriela Dow DBA Mora Dow Consulting Contact Person: Gabriela Dow gabriela@moradowconsulting.com **License Type Business Status** Goods/Services **Emerging** NOTE: Public relations, marketing, communications, business development, and community outreach consulting services. Phone # (619) 208-2499 Fax # Kristen M. Byrne DBA Byrne Communications Consulting kristen@byrne-comm.com Contact Person: Kristen M. Byrne **License Type Business Status** Goods/Services **Emerging** NOTE: Byrne Communications Consulting provides public affairs and strategic communications services, including public outreach and engagement, public relations and communications, government relations, workshop planning/implementation, and facilitation Phone # (858) 353-5489 Fax # (858) 587-1932 **Nettleton Strategies LLC DBA Nettleton Strategies** info@nettstrategies.com Contact Person: Carl Nettleton **License Type Business Status** Goods/Services Small NOTE: facilitation, analysis, writing, communications, public affairs, public relations Phone # (619) 794-6406 Fax # (858) 384-2681 Paula Roberts DBA Aqua Community Relations Group paula@humanability.biz Contact Person: Paula Roberts **License Type Business Status** Goods/Services **Emerging** NOTE: Community relations, exclusive community liaison, public outreach, facilitation, websites, press relations, flyers and brochures, meetings, workshops, events Phone # (844) 652-4400 Fax # Positraction, Inc. lynne@positraction.com Contact Person: Lynne Arciero **License Type Business Status** Goods/Services **Emerging** NOTE: Strategic marketing services including design, photo, video, digital marketing, events, public relations, website, social media Phone # (619) 726-2179 Fax # Reema Boccia DBA Two Rivers Strategies Reema@TwoRiversPR.com Contact Person: Reema Makani Boccia **License Type Business Status** Goods/Services **Emerging** NOTE: Public Relations, Community Outreach, Technical and Creative Writing, **Proposal Writing**

Phone # (619) 301-3573 Fax # Ronald E. Lacey DBA Lacey Consulting rlaceyconsult@yahoo.com Contact Person: Ronald E. Lacey **License Type Business Status** Goods/Services **Emerging** NOTE: Lacey Consulting provides Public Relations, Community Outreach, Media and Marketing Services Phone # (619) 517-4744 Fax # (619) 334-4156 Vic Salazar Enterprises, LLC DBA Vic Salazar Communications Info@vicsalazar.com Contact Person: Victor Salazar **License Type Business Status** Goods/Services **Emerging** NOTE: Public Relations, Media Training, Marketing, Advertising, Video Production, **Event Production** Phone # (619) 417-5993 Fax # Yen C. Tu Consulting Contact Person: Yen C. Tu yentu2@gmail.com **Business Status License Type** Goods/Services **Emerging** NOTE: Public relations and community outreach 541910 Marketing Research and Public Opinion Polling Fax # (760) 722-4005 Phone # (760) 722-4000 **Action Research**

Action Research

tabanico@actionresearch-inc.com

Contact Person:

License Type

Business Status

Goods/Services

Emerging

NOTE:

Survey development, focus groups, outreach campaigns, message
development, behavior change strategies, program evaluation, statistical
analysis

541921 Photography Studios, Portrait

R. Christopher Hinman DBA Video Fact Documentation Services Phone # (619) 889-8368 Fax # (619) 442-0045

Chris@videofact.net Contact Person: R. Christopher Hinman

License Type Business Status

Goods/Services Emerging

NOTE: Pre-Post construction documentation by audio video or photography.

541922 Commercial Photography

Birds Eye Aerial Drones, LLC DBA BEAD

Phone # (805) 890-1991

Scott Painter

License Type
Business Status
Goods/Services

NOTE: Unmanned Aerial Data Collection Services

Phone # (760) 621-3930 Fax # Chris Marquart DBA Code 3 Media chris@mediamarg.com Contact Person: Chris Marquart **License Type Business Status** Goods/Services **Emerging** NOTE: Aerial and Ground Photo, Video, Data, Reconnaissance, 2D/3D mapping R. Christopher Hinman DBA Video Fact Documentation Services Phone # (619) 889-8368 Fax # (619) 442-0045 Chris@videofact.net Contact Person: R. Christopher Hinman **License Type Business Status** Goods/Services **Emerging** NOTE: Pre-Post construction documentation by audio video or photography. 541990 All Other Professional, Scientific, and Technical Services Phone # (760) 722-4000 Fax # (760) 722-4005 **Action Research** tabanico@actionresearch-inc.com Contact Person: Jennifer J. Tabanico **Business Status License Type** Goods/Services **Emerging** NOTE: Survey development, focus groups, outreach campaigns, message development, behavior change strategies, program evaluation, statistical analysis Phone # (858) 689-4000 Fax # (858) 689-4035 Affordable Drain Service, Inc. DBA Afforable Pipeline Services shenson@affordabledrain.com Contact Person: Craig S. Post **License Type Business Status** Α Small NOTE: General Contractor-eligible for ALL subcontracting opportunities, eligible as a prime contractor for \$50k & below until receipt of bond letter. Clearing Drains, Camera inspection, CCTV Inspection, Jetting work Phone # (760) 758-1562 Fax # (760) 560-1662 Clark Land Resources, Inc. info@clarklandresouces.com Contact Person: Linda L. Clark / Fred W. Clark, Sr **License Type Business Status** Goods/Services Small NOTE: Clark Land Resources provides property acquisition, right-of-way and land management consulting services. Phone # (858) 382-4348 Fax # Lewis D. Michaelson DBA Participation by Design Imichaelson@sbcglobal.net Contact Person: Lewis D. Michaelson **License Type Business Status** Goods/Services **Emerging** NOTE: Mediation, facilitation, public participation, strategic planning and training services

Phone # (760) 788-1530 Fax # Rancho Land Co. DBA Rancho Land Services Tlynch@rancholandco.com Contact Person: Tiffany Lynch **License Type Business Status** LS **Emerging** NOTE: Land Surveying, mapping, scanning, land consulting 561110 Office Administrative Services Stormie Petoscia DBA SR Consulting Phone # (858) 837-0353 Fax # (858) 538-0625 stormierp@gmail.com Contact Person: Stormie Petoscia **Business Status License Type** Goods/Services **Emerging** NOTE: Document management, technical editing, accounting support 561320 Temporary Help Services Phone # (760) 547-5018 Fax # (760) 495-0349 Dolphin Island, Inc. DBA Island Staffing Eiconrad@islandstaffing.us Contact Person: E.J. Conrad **License Type Business Status** Goods/Services **Emerging** NOTE: IT & Engineering Staffing Agency, Goods/Material Services Phone # (619) 602-2535 Fax # Nexiya, Inc. Contact Person: Nadia Eghaneyan nadia@nexiya.com **Business Status License Type** Goods/Services Emerging NOTE: Nexiva is a woman-owned business providing a complete range of staffing and recruiting services. 561439 Other Business Service Centers (including Copy Shops) Phone # (858) 549-5380 Fax # (858) 549-5379 Control C, Inc. DBA Replica Printing Services Ryan@replicaprinting.com Contact Person: Ryan Stevens **License Type Business Status** Goods/Services **Emerging** NOTE: Digital printing, copying, scanning, reprographic and finishing services (i.e. binding, lamination, and mounting) **561612** Security Guards and Patrol Services Phone # (619) 368-3119 Fax # BSE Security Service, Inc m.blue@bsesecurityservice.com Contact Person: Marlon Blue **License Type Business Status**

NOTE: Armed and Unarmed Security Patrol

Small

Goods/Services

Phone # (619) 229-6100 Fax # (619) 229-6106 Locator Services Inc. DBA Able Patrol and Guard george@ablepatrolandguard.com Contact Person: George Grauer **License Type Business Status** Goods/Services Small NOTE: Security guard and patrol services Fax # RMG Security, Inc. dba ASAP Security Phone # (833) 272-7247 info@asapsecurity.org Contact Person: Raafat Kalliny **Business Status License Type** Goods/Services **Emerging** NOTE: Armed & Unarmed security officers and patrol services. Phone # (619) 550-1534 Fax # Six Maritime, Inc. Contact Person: Joseph Allen joseph@sixmaritime.com **Business Status License Type** Goods/Services **Emerging** NOTE: Security Services, training and consultation for land and water based environments/sites. 561621 Security Systems Services (except Locksmiths) Phone # (619) 871-4337 Fax # Brizo, Inc wturner@brizoinc.com Contact Person: Wendy Turner **License Type Business Status** В **Emerging** NOTE: Consulting - Public Safety and Security Phone # (760) 942-0688 Fax # Rancho Santa Fe Security Systems, Inc. jboever@rsfsecurity.com Contact Person: Denise Korenek **License Type Business Status** Goods/Services Small NOTE: Selling security alarm systems, such as burglar and fire alarms, along with installation, repair, and monitoring services. 561720 Janitorial Services Phone # (619) 888-0520 Fax # (949) 701-1771 California Office Cleaning, Inc. calofficecleaning@gmail.com Contact Person: Dustin Landeis **License Type Business Status** Goods/Services **Emerging** NOTE: California Office Cleaning, Inc. is a commercial cleaning company servicing all of San Diego County while specializing in recurring cleaning services for

city and government buildings, office buildings, homeowners association

complexes, dental and medical

Phone # (858) 275-4606 Fax # Takeuchi Commercial Cleaning Services, LLC DBA We Clean San Diego shizue@wecleansandiego.com Contact Person: Shizue Teshima **License Type Business Status** Goods/Services Small NOTE: Full service janitorial provider and floor restoration specialist for government and commercial entities. 561730 Landscaping Services Phone # (760) 672-8059 Fax # (858) 433-7215 A.B. Hashmi, Inc. info@abhashmi.com Contact Person: Ahmad B. Hashmi **License Type Business Status** Α **Emerging** C-27 **Emerging** NOTE: Engineering & Landscaping Contractor. Concrete flatwork, underground utilities, paving, drainage, landscaping & irrigation Phone # (619) 876-0745 Fax # Black Sage Environmental, Inc. Contact Person: Jason W. Allen jallen@blacksageenvironmental.com **Business Status License Type** C-27 **Emerging** NOTE: Natural Resource Management and Environmental Protetction Phone # (858) 722-7164 Fax # Cielo Azul, Inc DBA Cielo Azul Landscape Maintenance mrblue13@aol.com Contact Person: Pedro (Pete) Navarro **License Type Business Status** C-27 **Emerging** NOTE: Landscape Maintenance Phone # (760) 436-6804 Fax # (760) 436-8147 Coast Landscaping, Inc. tyler@coastlandscaping.com Contact Person: Tyler Mason **License Type Business Status** C-27 Small NOTE: Eligible for ALL subcontracting opportunities, eligible as a prime contractor for \$50k & below until receipt of bond letter. Phone # (619) 847-4225 Coastal Tree Care, Inc. Fax # **Contact Person:** Joseph Duane Eves arborist@coastaltreecare.com

NOTE: Tree pruning, lacing, height reduction, removals, stump grinding, planting,

License Type

D-49

Business Status

Emerging

D&D Wildlife Habitat Restoration, Inc.	Phone # (619)	667-3707	Fax # (619) 667-3929
douglasm@habitatsrestoration.com	Contact Person: Dou	ıglas W. McKinne	y
		License Type	Business Status
		C-27	Emerging
NOTE: Landscape construction and maintenance			
Franco Barnaba DBA Contemporary Design Landscape	Phone # (760)	480-9738	Fax # (760) 761-3582
fbarnaba@hotmail.com	Contact Person: Fran	nco Barnaba	
		License Type	Business Status
		C-27	Small
NOTE: Landscape maintenance			
Good Earth Living Architecture, Inc. DBA GreensScaped Build	dings Phone # (858)	576-9300	Fax # (858) 576-9398
jim@goodearthplants.com	Contact Person: Jam	es Mumford	
		License Type	Business Status
		C-27	Emerging
NOTE: Design & install living walls and green roofs			
			Fav # (760) 735 0351
Habitat West, Inc.	Phone # (760)	735-9378	rax # (700) 735-9351
Habitat West, Inc. ghurst@habitatwest.com	Phone # (760) Contact Person: Geo		Fax # (760) 735-9351
		rgia L. Hurst	
	Contact Person: Geo	orgia L. Hurst License Type	Business Status
NOTE: Native Habitat Restoration Creation and Enhancement Herbicide Application, Native Habitat Planting and So	Contact Person: Geo	License Type C-27	Business Status
NOTE: Native Habitat Restoration Creation and Enhancement Herbicide Application, Native Habitat Planting and Son Systems, Plant Salvaging	Contact Person: Geo	License Type C-27 280-3278	Business Status Small
NOTE: Native Habitat Restoration Creation and Enhancement Herbicide Application, Native Habitat Planting and Socystems, Plant Salvaging IO Environmental & Infrastructure, Inc.	Contact Person: Geo	License Type C-27 280-3278	Business Status Small Fax # (619) 677-5648
NOTE: Native Habitat Restoration Creation and Enhancement Herbicide Application, Native Habitat Planting and Socystems, Plant Salvaging IO Environmental & Infrastructure, Inc.	Contact Person: Geo	License Type C-27 280-3278 ny Monroe	Business Status Small Fax # (619) 677-5648
NOTE: Native Habitat Restoration Creation and Enhancement Herbicide Application, Native Habitat Planting and Socystems, Plant Salvaging IO Environmental & Infrastructure, Inc.	Contact Person: Geo	License Type C-27 280-3278 ny Monroe License Type	Business Status Small Fax # (619) 677-5648 Business Status
NOTE: Native Habitat Restoration Creation and Enhancement Herbicide Application, Native Habitat Planting and Socystems, Plant Salvaging IO Environmental & Infrastructure, Inc.	Contact Person: Geo	License Type C-27 280-3278 Type Monroe License Type A	Business Status Small Fax # (619) 677-5648 Business Status Small
NOTE: Native Habitat Restoration Creation and Enhancement Herbicide Application, Native Habitat Planting and Socystems, Plant Salvaging IO Environmental & Infrastructure, Inc.	Contact Person: Geo	License Type C-27 280-3278 Type Monroe License Type A C-27	Business Status Small Fax # (619) 677-5648 Business Status Small Small

		DI (7.60)	422.0207	
Kevcor		Phone # (760)		ax #
kev.kut	tina@kevcon.us	Contact Person: Kevi	n Kutina	
			License Type	Business Status
			A	Small
			В	Small
			C-27	Small
NOTE:	Specializing in government contracting since 1988. Me national cemeteries, construction, hazardous material			
LC Tree	e Service, Inc	Phone # (619)	677-5777 Fa	ax #
larry@	lctrees.com	Contact Person: Larr	y Coalson	
			License Type	Business Status
			C-61	Small
NOTE:	General tree service including tree trimming, tree rem land clearing, hedge trimming, and arborist consultation			
Makele	ele Systems Landscape & Maintenance, Inc.	Phone # (760)	208-8749 Fa	ax #
makele	ele@makelelesystems.com	Contact Person: Jose	Cardenas	
			License Type	Business Status
			C-27	Emerging
NOTE:	Landscape Maintenance and Landscape Construction			
Merino	o Landscape, Inc	Phone # (619)	348-9932 Fa	ax #
chris@	merinolandscape.com	Contact Person: Chri	stopher Merino	
			License Type	Business Status
			C-27	Small
NOTE:	Landscape and Irrigation			
San Die	ego Native Landscapes, Inc.	Phone # (619)	857-4777 Fa	ax #
sdnativ	velandscape@gmail.com	Contact Person: Jose	Santana	
			License Type	Business Status
			C-27	Emerging
NOTE:	Landscaping			
Terra G	Group Landscape, LLC	Phone # (619)	708-5971 Fa	ax #
	aterragrouplandscape.com	Contact Person: Abn		
			License Type	Business Status
			C-27	Emerging
NOTE:	Landscaping			
	r U			

Phone # (760) 749-2247 Fax # (855) 231-5614 Tierra Data, Inc. cynthia@tierradata.com Contact Person: Cynthia Booth **License Type Business Status** C-27 Small NOTE: Natural resources/environmental consulting, restoration, surveys, marine & terrestrial assessments and GIS mapping. Phone # (623) 810-0028 Fax # United General Construction, Inc. crismason@ugcco.net Contact Person: Cristen (Cris) Mason **License Type Business Status** Α Small NOTE: Construction, Fence, Asphalt, Concrete Phone # (760) 720-1459 Fax # (760) 720-7211 Western Gardens Landscaping, Inc. Greg@westerngardens.net Contact Person: Greg Vasilieff **Business Status License Type** C-27 Small NOTE: Landscape/Irrigation Construction and Maintenance Phone # (760) 650-3120 Fax # (760) 801-1816 Westturf Landscape Management, Inc info@westturf.com Contact Person: Sergio Guerra Graham **License Type Business Status** C-27 Emerging **NOTE:** Landscape Management 561740 Carpet and Upholstery Cleaning Services Phone # (858) 348-8118 Fax # Excellence Professional Cleaning, Inc DBA Handsome Carpet Cleaners Contact Person: Julio A. Renteria julio@excellencepc.com **License Type Business Status** Goods/Services **Emerging** NOTE: Facility Maintenance, Janitorial Services, Carpet Cleaning, Floor Care, **Pressure Washing** 561790 Other Services to Buildings and Dwellings Fax # Phone # (858) 348-8118 Excellence Professional Cleaning, Inc DBA Handsome Carpet Cleaners Contact Person: Julio A. Renteria julio@excellencepc.com **License Type Business Status** Goods/Services **Emerging** NOTE: Facility Maintenance, Janitorial Services, Carpet Cleaning, Floor Care, **Pressure Washing**

Two Oaks Sweeping LLC DBA Day & Night Power Sweeping

warren@sandiegosweeper.com

Contact Person:

Warren Levy

License Type
Goods/Services

Business Status
Goods/Services

Emerging

561990 All Other Support Services

Phone # (619) 299-5100 Fax # (619) 542-0763 Acme Safety & Supply Corp. Candace@acmesafetysupply.com Contact Person: Candace Friedman **Business Status License Type** C-31 Small D-42 Small NOTE: Rental sales & service of traffic safety materials Phone # (858) 793-4465 Fax # (858) 793-4495 Cecilia's Safety Services, Inc. accounting@ceciliassafetyservice.com Contact Person: Cecilia Katheleen Ostlund **License Type Business Status** C-31 Small D-42 Small NOTE: Traffic Control company providing traffic control plans, rental equipment and labor throughout San Diego County. Phone # (760) 476-0492 Fax # SubSurface Surveys & Associates, Inc. gherman@subsurfacesurveys.com Contact Person: George Harmon **Business Status License Type** CSD-21 **Emerging** NOTE: SubSurface Surveys provides near-surface geophysical and utility locating

562112 Hazardous Waste Collection

services

Bio1, LLC Phone # (858) 939-9985 Fax #

javed@bio1sd.com Contact Person: Asheef (Javed) Khan

License Type Business Status
Goods/Services Emerging

NOTE: Cleanup of biohazard (blood and body fluid), human and animal waste, hoarding, and homeless camps

EFR Environmental Services, Inc. Phone # (619) 722-6781 Fax # (619) 566-4006

accounting@efrenvirosd.com Contact Person: Laura Harris

License Type

A Small

B Small

HAZ Small

NOTE: Full Service HazMat Contractor; Transportation of Haz & Non-Haz Waste; Site Excavations & Cleanups; Tank Cleaning, Removal and Disposal; Emergency Response; Demolition; Asbestos Transportation; Drum Services

imergency response, being miletin, rispested transportation, bra

562211 Hazardous Waste Treatment and Disposal

Bio1, LLC Phone # (858) 939-9985 Fax #

javed@bio1sd.com Contact Person: Asheef (Javed) Khan

License Type Business Status

Goods/Services Emerging

NOTE: Cleanup of biohazard (blood and body fluid), human and animal waste, hoarding, and homeless camps

562910 Remediation Services

I	O Environmental & Infrastructure, Inc.	Phone # (619) 23	30-3278	Fax # (619) 677-5648
k	athym@iosdv.com	Contact Person: Kathy	Monroe	
			License Type	Business Status
			Α	Small
			C-27	Small
			HAZ	Small
			ASB	Small
ľ	NOTE: Professional Services			

Soclaris Contracting Phone # (619) 465-3438 Fax # (619) 374-7138

Soclaris@sbcglobal.net Contact Person: Sonny Rosenal

A Small
HAZ Small

NOTE: UST/AST removals, installs and repairs. Air/soil monitoring, soil remediation, hazardous & non-hazardous waste disposal; BROKER CREDIT ONLY FOR HAZARDOUS WASTE BINS

The Bodhi Group, Inc.	Phone # ((858) 513-1469		Fax # (858) 513-1609
Sree@thebodhigroup.com	Contact Person:	Sreeku	ımar Gopinath	
			License Type	Business Status
			CSD-12	Emerging
			Α	Emerging
			HAZ	Emerging
NOTE: Environmental and Geotechnical Consulting Services				
Environmental and deotechnical consulting services				

562998 All Other Miscellaneous Waste Management Services

Afforda	able Drain Service, Inc. DBA Afforable Pipeline Services	Phone #	(858) 6	89-4000	Fax # (858) 689-4035
shenso	n@affordabledrain.com	Contact Person	: Craig	S. Post	
				License Type	Business Status
				Α	Small
NOTE:	General Contractor-eligible for ALL subcontracting opposition a prime contractor for \$50k & below until receipt of b Drains, Camera inspection, CCTV Inspection, Jetting w				
EFR En	vironmental Services, Inc.	Phone #	(619) 7	22-6781	Fax # (619) 566-4006

accounting@efrenvirosd.com	Contact Person: Laura	Harris	
		License Type	Business Status
		Α	Small
		В	Small
		HAZ	Small

NOTE: Full Service HazMat Contractor; Transportation of Haz & Non-Haz Waste; Site Excavations & Cleanups; Tank Cleaning, Removal and Disposal; Emergency Response; Demolition; Asbestos Transportation; Drum Services

611430 Professional and Management Development Training

Jefferson South Solutions, LLC	Phone # (858) 23	85-0811 Fax	#			
dan.raphael@jeffersonsouth.com	Contact Person: Danie	niel Charles Raphael				
		License Type	Business Status			
		Goods/Services	Small			
NOTE: Business Consulting, Training and Workshops, Pro	gram support					
Novus Origo, Inc.	Phone # (760) 43	38-4354 Fax	# (760) 438-4355			
paul.cevolani@novusorigo.com	Contact Person: Paul C	Cevolani				
		License Type	Business Status			
		Goods/Services	Emerging			
NOTE: Human performance, professional training development and process in						

Phone # (619) 354-8326 Fax # Ziksana Consulting akshay@ziksanaconsulting.com Contact Person: Akshay Sateesh **License Type Business Status** Goods/Services Emerging NOTE: Professional Development Firm that deliver creative workshops, executive coaching, and organizational consulting to leaders and employees.

711320 Promoters of Performing Arts, Sports, and Similar Events without Facilities

Phone # (760) 715-2377 Fax # **Darryl Clark DBA Hangtime Sports**

hangtimesports@hotmail.com Contact Person: Darryl Clark

> **License Type Business Status** Goods/Services **Emerging**

NOTE: Providing officials, scorekeepers, and statisticians for amateur and high school games

712120 Historical Sites

Phone # (619) 546-5196 Fax # NWB Environmental Services, LLC

mtaylor@nwbenvironmental.com Contact Person: Michael Taylor

> **License Type Business Status** Goods/Services Small

NOTE:

812930 Parking Lots and Garages

Phone # (213) 716-6933 Fax # **Dixon Resources Unlimited**

Contact Person: Julie Dixon julie@dixonresourcesunlimited.com

> **License Type Business Status** Goods/Services **Emerging**

> > Fax # (888) 349-4543

NOTE: Management consulting services, including but not limited to municipal parking, parking lots and garages.

Phone # (619) 233-7275 Preferred Valet Parking, LLC

nick@preferredvaletparking.com Contact Person: Nicholas Paul Bernal

> **License Type Business Status** No License **Emerging**

NOTE: Parking Management, Valet Parking, Traffic Control Services, Parking Lots

813319 Other Social Advocacy Organizations

Brizo, Inc Phone # (619) 871-4337 Fax #

wturner@brizoinc.com Contact Person: Wendy Turner

> **License Type Business Status** В **Emerging**

NOTE: Consulting - Public Safety and Security



March 30, 2022 Email Blast to Firms for April 12, 2022 Bid Date

(/)

Q Search for people or companies





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Files (/proje

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Mark Unread

Invitation to Bid

From:	AV Ariel Vaca of Sukut Construction	Mar 30, 2022	Attachments
To:	▶ 22-057: General Info (100)	Expand all	Ad-Fax- Organics Proces (126 KB)
Good a	afternoon,		
SLBE- certifi	a Design-Build RFP for the City of San Die ELBE mandatory goal. Based on the City o ed SLBE-ELBE list, Sukut would like to invor this project.		
	te is April 12, 2022 at 12PM. Please contac 957-2018, or estimating@sukut.com, with rns.		

1 of 1 4/27/2022, 10:34 AM





Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser,
Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric,
Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe,
Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt,
Steel Structures, Temporary Rail (Type K), Welding Contractor

SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

BID DATE: April 12, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC 4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003

Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC An Equal Opportunity Employer

PLEASE EMAIL YOUR RESPONSE TO SMALL BUSINESS EXCHANGE AT RVIVANCO@SBEINC.COM

COMPANY NAME: PHONE/FAX:

YES, we will be bidding SLBE ELBE

NO, we will not be bidding

Areas of Expertise

Contractor Licence: DIR Registration #

To opt out of receiving further faxes, call 800-800-8534 or (415) 778-6250 or email sbe@sbeinc.com

	Α	В	С	D	E	F	G	Н
1	Campaign	Company Name	Email	Opened	Link Clicked	Unsubscribe	Bounced	Date Sent
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
2	Organics Processing Facility, San Diego, CA	YBS Concrete Inc	Ybsconcrete@yahoo.com	Yes	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
3	Organics Processing Facility, San Diego, CA	BLACK IPO	wrstemley@aol.com	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
4	Organics Processing Facility, San Diego, CA	Saturn Electric Inc	tim@saturnelectric.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
5	Organics Processing Facility, San Diego, CA	SJ ELECTRIC CO	sjelectric@cox.net	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
6	Organics Processing Facility, San Diego, CA	San Diego Native Landscape Inc	sdnativelandscape@gmail.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
7	Organics Processing Facility, San Diego, CA	RP General Construction DBA RP	rpgeneralconst@yahoo.com	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
8	Organics Processing Facility, San Diego, CA	CLARK TELECOM AND ELECTRIC	reggie@cte-ca.com	Yes	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
9	Organics Processing Facility, San Diego, CA	REC TRUCKING INC	RECtrucking.inc@gmail.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
10	Organics Processing Facility, San Diego, CA	Quality Construction & Enginee	qualitycengineering@gmail.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
11	Organics Processing Facility, San Diego, CA	Precision Striping Inc	precisionstripingsd@gmail.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
12	Organics Processing Facility, San Diego, CA	HANKINS CONSTRUCION INC	Pavnldy@hankinsconstruction.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
13	Organics Processing Facility, San Diego, CA	Entenman Development Group INC	office@entenmangroup.com	No	No	No		3/31/22 16:37
1	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
14	Organics Processing Facility, San Diego, CA	New Century Construction Inc	newcenturyconstruction@yahoo.com	Yes	No	No		3/31/22 16:37
1	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
15	Organics Processing Facility, San Diego, CA	Crown Concrete Constructors IN	mwccoast@aol.com	No	No	No		3/31/22 16:37
1,0	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
16	Organics Processing Facility, San Diego, CA	Cielo Azul Inc DBA Cielo Azul	mrblue13@aol.com	No	No	No		3/31/22 16:37
1,7	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	<u> </u>		 				0/04/00 46 07
17	Organics Processing Facility, San Diego, CA	M-rae engineering incorporated	mraeengineering@gmail.com	No	No	No		3/31/22 16:37
10	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	NA Cardin County on a INIC alls a NAC Cou	and the Control of th		NI-	 NI =		2/24/22 46:27
18	Organics Processing Facility, San Diego, CA	M Carlin Systems INC dba MC Sy	mcarlin@m-c-systems.com	No	No	No		3/31/22 16:37
19	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	A CNAF CAFETY & CURRLY CORR		N ₁ -	N.	N.	Vaa	2/24/22 46.27
19	Organics Processing Facility, San Diego, CA	ACME SAFETY & SUPPLY CORP	marys@acmesafetysupply.com	No	No	No	Yes	3/31/22 16:37
20	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	NACIONE CONTRACTOR AND AND AND	Makalala @Makalala Custassa assa	N ₁ -	N.	N.	Vaa	2/24/22 46.27
20	Organics Processing Facility, San Diego, CA ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	Makelele Systems Landscape and	Makelele@MakeleleSystems.com	No	No	No	Yes	3/31/22 16:37
21	1	Pluo Swall Construction Manage	lv@hluoswollem.com	No	No	No		2/21/22 16:27
21	Organics Processing Facility, San Diego, CA ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	Blue Swell Construction Manage	lv@blueswellcm.com	No	No	No		3/31/22 16:37
22	Organics Processing Facility, San Diego, CA	LC Tree Service Inc	larry@lctrees.com	No	No	No		2/21/22 16:27
22	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	LC TIEE SELVICE THE	iany wichees.com	No	No	No		3/31/22 16:37
23	1	SUTHERLIN CONTRACTING INC	ksuthe/187@aol.com	No	No	No		2/21/22 16:27
_23	Organics Processing Facility, San Diego, CA	SOT HERLIN CONTRACTING INC	ksuthe4187@aol.com	No	No	No]	3/31/22 16:37

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	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
24	Organics Processing Facility, San Diego, CA	KIRK PAVING INC	kirkpaving@cox.net	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -		. 9					
25	Organics Processing Facility, San Diego, CA	KEVCONINC	kev.kutina@kevcon.us	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
26	Organics Processing Facility, San Diego, CA	Western State Builders INC	julian@westernstatebuilder.com	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
27	Organics Processing Facility, San Diego, CA	Montano Pipeline Inc	jose@montanopipeline.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
28	Organics Processing Facility, San Diego, CA	Jose Rolon dba DeRollo Pipelin	jose@derollopipeline.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
29	Organics Processing Facility, San Diego, CA	MILLER PAVING CORP	john@millerpavingcorp.com	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
30	Organics Processing Facility, San Diego, CA	J&E SoCal Supply	jmitchell@jesocalsupply.com	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
31	Organics Processing Facility, San Diego, CA	Black Sage Environmental LLC	jallen@blacksageenvironmental.com	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
32		Westturf Landscape Management	info@westturf.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
33		Siege Electric INC	info@siege-electric.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
34	Organics Processing Facility, San Diego, CA	Phoenix Renewable Services LL	info@phoenixrs.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
35		COAST LANDSCAPING INC	info@coastlandscaping.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
36		3Sixty Innovation inc	info@3sixtyinnovation.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
37	Organics Processing Facility, San Diego, CA	WESTERN FENCE & SUPPLY DBA PIL	greg@westerngardens.net	No	No	No	Yes	3/31/22 16:37
20	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
	<u> </u>	Cross Construction Inc	greg@crossconstruction.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -				.	.	<u> </u>	0/04/02 15 5
39	Organics Processing Facility, San Diego, CA	HABITAT WEST INC	ghurst@habitatwest.com	No	No	No	Yes	3/31/22 16:37
40	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	CLIDCLIDE ACE CLIDVEVC 9 ACCOCLATE	gharman@subsurfags.ur.sus	No	No	No		2/24/22 46:27
40		SUBSURFACE SURVEYS & ASSOCIATE	gherman@subsurfacesurveys.com	No	No	No		3/31/22 16:37
/11	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	E & C ELECTRICAL ININOVATIONS	CEDBY @ ECEL ECTRICALIANIO VATIONS COAA	No	No	No		2/21/22 16:27
41	Organics Processing Facility, San Diego, CA ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	E & G ELECTRICAL INNOVATIONS	GERRY@EGELECTRICALINNOVATIONS.COM	No	No	No		3/31/22 16:37
/ /2	Organics Processing Facility, San Diego, CA	IN-LINE FENCE AND RAILING CO I	GARVAINIUNERALL COM	No	No	No	Vos	2/21/22 16:27
42	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	IN-LINE FEINCE AIND KAILING CO I	GARY@INLINERAIL.COM	No	No	No	Yes	3/31/22 16:37
43	Organics Processing Facility, San Diego, CA	Valley Construction Management	galina.mochel@valleycm.com	Yes	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	valley construction wanagement	Bamia. Modiele valle y Chi. Com	163	INU	INU	 	3/31/22 10.3/
	• •	FRANK AND SON PAVING INC	franknsonpaving@yahoo.com	No	No	No		3/31/22 16:37
~ ~	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	I DAIN AND SON FAVING INC	Trankinsonpaving@yanoo.com	INO	140	INO		3/31/22 10.3/
, ,	•	BONITA PIPELINE INC	frank@bonitapipeline.com	No	No	No		3/31/22 16:37

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	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
46	Organics Processing Facility, San Diego, CA	CONTEMPORARY DESIGN LANDSCAPIN	fbarnaba@hotmail.com	Yes	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
47	Organics Processing Facility, San Diego, CA	FALCON CONSTRUCTION CO	falconconstruction2002@gmail.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
48	Organics Processing Facility, San Diego, CA	UNDERGROUND UTILITIES INC	estimating@uuisd.com	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
49	Organics Processing Facility, San Diego, CA	Payco Specialties Inc	estimating@payco.biz	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
50	Organics Processing Facility, San Diego, CA	MONTGOMERY CONSTRUCTION SERVIC	estimating@montcsi.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
51	Organics Processing Facility, San Diego, CA	HSCCINC	estimating@hsccbuilders.com	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
52	Organics Processing Facility, San Diego, CA	Sattler Solar INC	erik@sattlersolar.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
53	Organics Processing Facility, San Diego, CA	ALVAREZ AND SHAW INC	Dshaw@alvarezandshaw.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
54	Organics Processing Facility, San Diego, CA	R. MONTANEZ CONTRACTING INC	drdemo@drdemo.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
55	Organics Processing Facility, San Diego, CA	CYBER PROFESSIONAL SOLUTIONS C	douglasm@habitatsrestoration.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
56	Organics Processing Facility, San Diego, CA	Xpedient Communications Inc	dougc@xpdcom.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
57	Organics Processing Facility, San Diego, CA	Southwest Signal Service	dlebeau@southwestsignal.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
58	Organics Processing Facility, San Diego, CA	IO Environmental & Infrastru	dennisi@iosdv.com	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
59	Organics Processing Facility, San Diego, CA	UNITED GENERAL CONSTRUCTION IN	crismason@ugcco.net	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
60	Organics Processing Facility, San Diego, CA	Piperin Corp	craig@piperincorp.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
61	Organics Processing Facility, San Diego, CA	Cityscape Services LLC	cityscapecostcontrol@gmail.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -			1. .	.	[0/04/25 : 5 -
62	Organics Processing Facility, San Diego, CA	Christopher Sparks	chris@oceanpaving.com	No	No	No	ļ	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	l.,		1. .	.	.		0/04/05 : 5 5=
63	Organics Processing Facility, San Diego, CA	Merino Landscape	chris@merinolandscape.com	No	No	No	-	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -			 	 			2/24/22 45 5=
64	Organics Processing Facility, San Diego, CA	Chris Marquart DBA Code 3 Medi	chris@mediamarq.com	No	No	No		3/31/22 16:37
6.	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	TIERRA DATA INC	shalaaa Shiama daha as	No.	l _{NI} -	No		2/24/22 46:27
65	Organics Processing Facility, San Diego, CA	TIERRA DATA INC	chelsea@tierradata.com	No	No	No		3/31/22 16:37
66	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	Bussels on Floatric INC DDA C	huaaahanalaatiia	Ne	l _{NI} -	No		2/24/22 46 27
66	Organics Processing Facility, San Diego, CA	Buescher Electric INC DBA Serv	buescherelectric@gmail.com	No	No	No		3/31/22 16:37
67	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -	LLIVAY Engine oring INC	have a Churcher com	No.	l _{NI} -	No		2/24/22 46:27
67	Organics Processing Facility, San Diego, CA	H+W Engineering INC	bryan@hwengr.com	No	No	No	<u> </u>	3/31/22 16:37

	А	В	С	D	Е	F	G	Н
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
68	Organics Processing Facility, San Diego, CA	DLG CONTRACTORS	BRYAN.DLGCONTRACTORS@GMAIL.COM	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							!
69	Organics Processing Facility, San Diego, CA	WG CONSTRUCTION INC	bill@wgconstructioninc.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
70	Organics Processing Facility, San Diego, CA	BERNAL BUILDERS INC BernalBuildersinc@gmail.com	No	No	No		3/31/22 16:37	
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
71	Organics Processing Facility, San Diego, CA	BC3 Equipment Inc	bc3equipment@gmail.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
72	Organics Processing Facility, San Diego, CA	ZASUETA CONTRACTING INC	azplaygrounds@cox.net	No	No	No	Yes	3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
73	Organics Processing Facility, San Diego, CA	KENDRICK EXCAVATING INC	audrey@kendrick-sd.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
74	Organics Processing Facility, San Diego, CA	Coastal Tree Care INC	arborist@coastaltreecare.com	Yes	Yes	Yes		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
75	Organics Processing Facility, San Diego, CA	SPECIFIED PAINTING SYSTEMS	aernst@specscivilsolutions.com	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
76	Organics Processing Facility, San Diego, CA	ACCURATE ASPHALT & CONCRETE IN	ADMIN@ACCURATE-AC.COM	No	No	No		3/31/22 16:37
	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 -							
77	Organics Processing Facility, San Diego, CA	Terra Group Landscape L.L.C.	abner@terragrouplandscape.com	No	No	No		3/31/22 16:37

A7c. Bid Date 4-12-2022 Fax Reports

	А	В	С	D	Е	F
1	DATE	FAX TO	COMPANY NAME	SUBJECT	STATUS	REF#
2	3/31/22 14:50	18587934495	Cecilia's Safety Services INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
3	3/31/22 14:49	18587241198	SPECS Civil Solutions Inc DBA	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
4	3/31/22 14:49	17609290418	Clarvan Inc DBA Industrial Ma	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
5	3/31/22 14:49	17604368147	COAST LANDSCAPING INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
6	3/31/22 14:50	17607207211	WESTERN GARDENS LANDSCAPING IN	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
7	3/31/22 14:50	17607359351	HABITAT WEST INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
8	3/31/22 14:50	16195420763	ACME SAFETY & SUPPLY CORP	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
9	3/31/22 14:49	16196775648	IO Environmental & Infrastruct	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
10	3/31/22 14:49	17604760493	SUBSURFACE SURVEYS & ASSOCIATE	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
11	3/31/22 14:49	16195503641	BLACK SAGE ENVIRONMENTAL INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
12	3/31/22 14:48	18589645335	Xpedient Communication INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
13	3/31/22 14:47	17605602002	Cross Construction Inc	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
14	3/31/22 14:47	16196511392	Buescher Electric INC DBA Serv	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
15	3/31/22 14:48	16196842611	M Carlin Systems INC dba MC Sy	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
16	3/31/22 14:48	16198222540	ACCURATE ASPHALT & CONCRETE IN	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
17	3/31/22 14:47	16193341880	Maxim Construction Co Inc	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
18	3/31/22 14:48	17604716178	Dick Miller INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
19	3/31/22 14:47	17605984107	Low Voltage Fire INC DBA Low V	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
20	3/31/22 14:48	16195468482	MONTGOMERY CONSTRUCTION SERVIC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
21	3/31/22 14:48	16199246256	HSCC INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
22	3/31/22 14:47	16195791993	SUTHERLIN CONTRACTING INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
23	3/31/22 14:47	17607891915	IN-LINE FENCE & RAILING CO INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
24	3/31/22 14:47	16199380767	Kirk Paving Inc	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
25	3/31/22 14:48	18584083414	Valley CM Inc DBA Valley Const	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
26	3/31/22 14:47	16194879195	AHRENS MECHANICAL	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
27	3/31/22 14:47	16194271620	PAYCO SPECIALTIES INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			Frank and Son Paving INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			MILLER PAVING CORP	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			3Sixty Innovation inc	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			SATURN ELECTRIC INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			SOUTHWEST TRAFFIC SIGNAL SERVI	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
	· ·		ZASUETA CONTRACTING INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
34	3/31/22 14:47	18584530745	Transtar Pipeline INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			KENDRICK EXCAVATING INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			CONCRETE BUILDING SYSTEMS CONS	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			QSB CONSTRUCTION	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			UNDERGROUND UTILITIES INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			BONITA PIPELINE INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			Quality Construction & Enginee	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO 4442
			D&D Wildlife Habitat Restorati	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
42	3/31/22 14:49	18552315614	TIERRA DATA INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442

	Α	В	С	D	Е	F
43	3/31/22 14:49	17608011816	Westturf Landscape Management	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
44	3/31/22 14:49	17607613582	Franco Barnaba DBA Contemporar	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
45	3/31/22 14:49	18585769398	Good Earth Living Architecture	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
46	3/31/22 14:48	16195617686	CTE INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
47	3/31/22 14:47	16193766591	David H. Knight DBA Knight Pow	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
48	3/31/22 14:47	16194542484	Alvarez and Shaw Inc	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
49	3/31/22 14:47	16194227564	R. Montanez Contracting INC DB	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
50	3/31/22 14:47	17606238725	Jose Rolon dba DeRollo Pipelin	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
51	3/31/22 14:47	16199555381	Moor Electric INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
52	3/31/22 14:47	17604709550	AXL Group INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
53	3/31/22 14:47	17606213930	Chris Marquart DBA Code 3 Medi	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
54	3/31/22 14:47	16192583515	BERT W SALAS INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
55	3/31/22 14:47	16199464654	REC Trucking INC dba AR Concre	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
56	3/31/22 14:47	16192070008	YBS Construction Engineering	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
57	3/31/22 14:47	16197497186	WG CONSTRUCTION INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
58	3/31/22 14:47	17607882153	Hankins Construction Inc	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
59	3/31/22 14:47	16195271698	BLACK IPO	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
60	3/31/22 14:47	18589257337	FALCON CONSTRUCTION CO	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
61	3/31/22 14:47	18584878355	WHITSON CONTRACTING & MANAGEME	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
62	3/31/22 14:47	16195939591	SALZANO ENGINEERING INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
63	3/31/22 14:47	16193903311	NEW CENTURY CONSTRUCTION INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
64	3/31/22 14:47	18584337215	AB HASHMI INC	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
65	3/31/22 14:47	17603057253	PIPERIN CORP	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442
66	3/31/22 14:47	16199233828	Accent Engineering And Constru	ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO 4442

A7a. Bid Date 4-29 Sukut Email broadcast

April 12, 2022 Email Blast to Firms for April 29, 2022 Bid Date

Q Search for people or companies Back to Projects(/projects/active) Organics Processing Facility Bid Packages (/projects/6255df507f61c000c2def7f7/bid-packages) Messages (/projects/6255df507f61c000c2def7f7/messages) Files (/projects/62 ← Back to Messages(/projects/6255df507f61c000c2def7f7/messages) Mark Unread Re-Advertisement w/ NDA From: AV Ariel Vaca of Sukut Construction Apr 12, 2022 **Attachments** To: Expand all ▶ 22-057: General Info (129) ▶ Intake Facility Building (10) Sukut NDA.pdf (/_/downl... (129 KB) Misting System for the Intake ... (3) ▶ Biofilter System for the Intake... (2) ▶ 3: Conveying Systems (5) ▶ Fire Sprinkler System for the I... (7) ▶ Rebar (5) ▶ AC Paving (5) ➤ Surveying (4) ➤ Basin Liner (2) ➤ Fences & Gates (1) ➤ Concrete (5) ➤ Building Protection System (1) Good afternoon, Due to this project being a Design-Build proposal, Sukut has readvertised this with a required NDA to be submitted. Please let us know if you are a City of San Diego Certified SLBE-ELBE interested in bidding this project, and our Estimating team will be in touch with more specifics. Please contact estimating@sukut.com with questions or concerns. Type your reply here... **B** *I* <u>U</u> ½≡ **:**≡

1 of 1 4/28/2022, 8:57 AM





Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser,
Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric,
Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe,
Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt,
Steel Structures, Temporary Rail (Type K), Welding Contractor

SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

REVISED BID DATE: April 29, 2022 at 12:00 p.m.
All Quotes Due Prior

Sukut Construction, LLC 4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003

Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC An Equal Opportunity Employer

PLEASE EMAIL YOUR RESPONSE TO SMALL BUSINESS EXCHANGE AT RVIVANCO@SBEINC.COM

COMPANY NAME: PHONE/FAX:

YES, we will be bidding SLBE ELBE

NO, we will not be bidding

Areas of Expertise

Contractor Licence: DIR Registration #

To opt out of receiving further faxes, call 800-800-8534 or (415) 778-6250 or email sbe@sbeinc.com

	Α	В	С	D	Е	F	G	Н
1		Company Name	Email	Opened	Link Clicked	Unsubscribe	Bounced	Date Sent
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
2	Organics Processing Facility, San Diego, CA	YBS Concrete Inc	Ybsconcrete@yahoo.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
3		BLACK IPO	wrstemley@aol.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
4		Saturn Electric Inc	tim@saturnelectric.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
5	Organics Processing Facility, San Diego, CA	San Diego Native Landscape Inc	sdnativelandscape@gmail.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
6	Organics Processing Facility, San Diego, CA	RP General Construction DBA RP	rpgeneralconst@yahoo.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
7	Organics Processing Facility, San Diego, CA	CLARK TELECOM AND ELECTRIC	reggie@cte-ca.com	Yes	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
8	Organics Processing Facility, San Diego, CA	REC TRUCKING INC	RECtrucking.inc@gmail.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
9	Organics Processing Facility, San Diego, CA	Quality Construction & Enginee	qualitycengineering@gmail.com		No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
10	Organics Processing Facility, San Diego, CA	Precision Striping Inc	precisionstripingsd@gmail.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
11	Organics Processing Facility, San Diego, CA	HANKINS CONSTRUCION INC	Pavnldy@hankinsconstruction.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
12	Organics Processing Facility, San Diego, CA	Entenman Development Group INC	office@entenmangroup.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
13	Organics Processing Facility, San Diego, CA	New Century Construction Inc	newcenturyconstruction@yahoo.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
14	Organics Processing Facility, San Diego, CA	Crown Concrete Constructors IN	mwccoast@aol.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
15	Organics Processing Facility, San Diego, CA	Cielo Azul Inc DBA Cielo Azul	mrblue13@aol.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
16	Organics Processing Facility, San Diego, CA	M-rae engineering incorporated	mraeengineering@gmail.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
17	Organics Processing Facility, San Diego, CA	M Carlin Systems INC dba MC Sy	mcarlin@m-c-systems.com	Yes	Yes	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
18	Organics Processing Facility, San Diego, CA	ACME SAFETY & SUPPLY CORP	marys@acmesafetysupply.com	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
19	Organics Processing Facility, San Diego, CA	Makelele Systems Landscape and	Makelele@MakeleleSystems.com	No	No	No	Yes	4/6/22 12:01

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	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
20	Organics Processing Facility, San Diego, CA	Blue Swell Construction Manage	lv@blueswellcm.com	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
21	Organics Processing Facility, San Diego, CA	LC Tree Service Inc	larry@lctrees.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
22	Organics Processing Facility, San Diego, CA	SUTHERLIN CONTRACTING INC	ksuthe 4187@aol.com	Yes	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
23	Organics Processing Facility, San Diego, CA	KIRK PAVING INC	kirkpaving@cox.net	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
24	Organics Processing Facility, San Diego, CA	KEVCON INC	kev.kutina@kevcon.us	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
25	Organics Processing Facility, San Diego, CA	Western State Builders INC	julian@westernstatebuilder.com	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
26	Organics Processing Facility, San Diego, CA	Montano Pipeline Inc	jose@montanopipeline.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
27	Organics Processing Facility, San Diego, CA	Jose Rolon dba DeRollo Pipelin	jose@derollopipeline.com	Yes	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
28	Organics Processing Facility, San Diego, CA	MILLER PAVING CORP	john@millerpavingcorp.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
29	Organics Processing Facility, San Diego, CA	J&E SoCal Supply	jmitchell@jesocalsupply.com	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
30	Organics Processing Facility, San Diego, CA	Westturf Landscape Management	info@westturf.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
31	Organics Processing Facility, San Diego, CA	Siege Electric INC	info@siege-electric.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
32	Organics Processing Facility, San Diego, CA	Phoenix Renewable Services LL	info@phoenixrs.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
33	Organics Processing Facility, San Diego, CA	COAST LANDSCAPING INC	info@coastlandscaping.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
34	Organics Processing Facility, San Diego, CA	3Sixty Innovation inc	info@3sixtyinnovation.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
35	Organics Processing Facility, San Diego, CA	WESTERN FENCE & SUPPLY DBA PIL	greg@westerngardens.net	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
36	Organics Processing Facility, San Diego, CA	Cross Construction Inc	greg@crossconstruction.com	No	No	No	1	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
37	<u> </u>	HABITAT WEST INC	ghurst@habitatwest.com	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							1
38	Organics Processing Facility, San Diego, CA	SUBSURFACE SURVEYS & ASSOCIATE	gherman@subsurfacesurveys.com	No	No	No		4/6/22 12:01

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	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
39	Organics Processing Facility, San Diego, CA	E & G ELECTRICAL INNOVATIONS	GERRY@EGELECTRICALINNOVATIONS.COM	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
40	Organics Processing Facility, San Diego, CA	IN-LINE FENCE AND RAILING CO I	GARY@INLINERAIL.COM	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
41	Organics Processing Facility, San Diego, CA	Valley Construction Management	galina.mochel@valleycm.com	Yes	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
42	Organics Processing Facility, San Diego, CA	FRANK AND SON PAVING INC	franknsonpaving@yahoo.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
43	Organics Processing Facility, San Diego, CA	BONITA PIPELINE INC	frank@bonitapipeline.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
44	Organics Processing Facility, San Diego, CA	CONTEMPORARY DESIGN LANDSCAPIN	fbarnaba@hotmail.com	Yes	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
45	Organics Processing Facility, San Diego, CA	FALCON CONSTRUCTION CO	falconconstruction2002@gmail.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
46	Organics Processing Facility, San Diego, CA	UNDERGROUND UTILITIES INC	estimating@uuisd.com	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
47	Organics Processing Facility, San Diego, CA	Payco Specialties Inc	estimating@payco.biz	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
48	Organics Processing Facility, San Diego, CA	MONTGOMERY CONSTRUCTION SERVIC	estimating@montcsi.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
49	Organics Processing Facility, San Diego, CA	HSCC INC	estimating@hsccbuilders.com	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
50	Organics Processing Facility, San Diego, CA	Sattler Solar INC	erik@sattlersolar.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
51	Organics Processing Facility, San Diego, CA	ALVAREZ AND SHAW INC	Dshaw@alvarezandshaw.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
52	Organics Processing Facility, San Diego, CA	R. MONTANEZ CONTRACTING INC	drdemo@drdemo.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
53	Organics Processing Facility, San Diego, CA	CYBER PROFESSIONAL SOLUTIONS C	douglasm@habitatsrestoration.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
54	Organics Processing Facility, San Diego, CA	Xpedient Communications Inc	dougc@xpdcom.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
55	Organics Processing Facility, San Diego, CA	Southwest Signal Service	dlebeau@southwestsignal.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
56	Organics Processing Facility, San Diego, CA	IO Environmental & Infrastru	dennisi@iosdv.com	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
57	Organics Processing Facility, San Diego, CA	UNITED GENERAL CONSTRUCTION IN	crismason@ugcco.net	No	No	No		4/6/22 12:01

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	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
58	Organics Processing Facility, San Diego, CA	Piperin Corp	craig@piperincorp.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
59	Organics Processing Facility, San Diego, CA	Cityscape Services LLC	cityscapecostcontrol@gmail.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
60	Organics Processing Facility, San Diego, CA	Christopher Sparks	chris@oceanpaving.com	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
61	Organics Processing Facility, San Diego, CA	Merino Landscape	chris@merinolandscape.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
62	Organics Processing Facility, San Diego, CA	Chris Marquart DBA Code 3 Medi	chris@mediamarq.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
63	Organics Processing Facility, San Diego, CA	TIERRA DATA INC	chelsea@tierradata.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
64	Organics Processing Facility, San Diego, CA	Buescher Electric INC DBA Serv	buescherelectric@gmail.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
65	Organics Processing Facility, San Diego, CA	H+W Engineering INC	bryan@hwengr.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
66	Organics Processing Facility, San Diego, CA	DLG CONTRACTORS	BRYAN.DLGCONTRACTORS@GMAIL.COM	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
67	Organics Processing Facility, San Diego, CA	WG CONSTRUCTION INC	bill@wgconstructioninc.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
68	Organics Processing Facility, San Diego, CA	BERNAL BUILDERS INC	BernalBuildersinc@gmail.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
69	Organics Processing Facility, San Diego, CA	BC3 Equipment Inc	bc3equipment@gmail.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
70	Organics Processing Facility, San Diego, CA	ZASUETA CONTRACTING INC	azplaygrounds@cox.net	No	No	No	Yes	4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
71	Organics Processing Facility, San Diego, CA	KENDRICK EXCAVATING INC	audrey@kendrick-sd.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
72	Organics Processing Facility, San Diego, CA	Coastal Tree Care INC	arborist@coastaltreecare.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
73	Organics Processing Facility, San Diego, CA	SPECIFIED PAINTING SYSTEMS	aernst@specscivilsolutions.com	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
74	Organics Processing Facility, San Diego, CA	ACCURATE ASPHALT & CONCRETE IN	ADMIN@ACCURATE-AC.COM	No	No	No		4/6/22 12:01
	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 -							
75	Organics Processing Facility, San Diego, CA	Terra Group Landscape L.L.C.	abner@terragrouplandscape.com	No	No	No		4/6/22 12:01

A7e. Bid Date 4-29-2022 Fax Reports

	Α	В	С	D	Е	F
1	DATE	FAX TO	COMPANY NAME	SUBJECT	STATUS	REF#
2	4/6/22 12:10	18587934495	Cecilia's Safety Services INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
3	4/6/22 12:10	17604760493	SPECS Civil Solutions Inc DBA	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
4	4/6/22 12:10	16196775648	Clarvan Inc DBA Industrial Ma	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
5	4/6/22 12:10	17604368147	COAST LANDSCAPING INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
6	4/6/22 12:10	16195503641	WESTERN GARDENS LANDSCAPING IN	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
7	4/6/22 12:10	17607207211	HABITAT WEST INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
8	4/6/22 12:10	18587241198	ACME SAFETY & SUPPLY CORP	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
9	4/6/22 12:10	16195420763	IO Environmental & Infrastruct	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
10	4/6/22 12:10	17609290418	SUBSURFACE SURVEYS & ASSOCIATE	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
11	4/6/22 12:10	17607359351	BLACK SAGE ENVIRONMENTAL INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
12	4/6/22 12:10	16199380767	Xpedient Communication INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
13	4/6/22 12:10	16196541301	Cross Construction Inc	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
14	4/6/22 12:10	16193341880	Buescher Electric INC DBA Serv	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
15	4/6/22 12:10	16195664306	M Carlin Systems INC dba MC Sy	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
16	4/6/22 12:10	16198222540	ACCURATE ASPHALT & CONCRETE IN	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
17	4/6/22 12:10	18584083414	Maxim Construction Co Inc	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
18	4/6/22 12:10	16194209020	Dick Miller INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
19	4/6/22 12:10	16199246256	Low Voltage Fire INC DBA Low V	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
20	4/6/22 12:10	16194424708	MONTGOMERY CONSTRUCTION SERVIC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
21	4/6/22 12:10	18589645335	HSCC INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
22	4/6/22 12:10	16196976031	SUTHERLIN CONTRACTING INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
			IN-LINE FENCE & RAILING CO INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
24	4/6/22 12:10	16195468482	Kirk Paving Inc	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
			Valley CM Inc DBA Valley Const	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
26	4/6/22 12:10	18584530745	AHRENS MECHANICAL	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
			PAYCO SPECIALTIES INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
			Frank and Son Paving INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
29	4/6/22 12:10	18582710230	MILLER PAVING CORP	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
_			3Sixty Innovation inc	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
_			SATURN ELECTRIC INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
_			SOUTHWEST TRAFFIC SIGNAL SERVI	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
33	4/6/22 12:10	16194349802	ZASUETA CONTRACTING INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
			Transtar Pipeline INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
35	4/6/22 12:10	17607891915	KENDRICK EXCAVATING INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
36	4/6/22 12:10	17604320300	CONCRETE BUILDING SYSTEMS CONS	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
_			QSB CONSTRUCTION	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
_			UNDERGROUND UTILITIES INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
_			BONITA PIPELINE INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
			Quality Construction & Enginee	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442
_			D&D Wildlife Habitat Restorati	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
42	4/6/22 12:10	18552315614	TIERRA DATA INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442

	Α	В	С	D	Е	F
43	4/6/22 12:10	17607613582	Westturf Landscape Management	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
44	4/6/22 12:10	17608011816	Franco Barnaba DBA Contemporar	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
45	4/6/22 12:10	16196673929	Good Earth Living Architecture	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
46	4/6/22 12:10	16199555381	CTE INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
47	4/6/22 12:10	16193766591	David H. Knight DBA Knight Pow	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
48	4/6/22 12:10	16194227564	Alvarez and Shaw Inc	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
49	4/6/22 12:10	16199464654	R. Montanez Contracting INC DB	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
50	4/6/22 12:10	17606213930	Jose Rolon dba DeRollo Pipelin	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
51	4/6/22 12:10	16192583515	Moor Electric INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
52	4/6/22 12:10	16193903311	AXL Group INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
53	4/6/22 12:10	17607882153	Chris Marquart DBA Code 3 Medi	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
54	4/6/22 12:10	16195271698	BERT W SALAS INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
55	4/6/22 12:10	16192070008	REC Trucking INC dba AR Concre	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
56	4/6/22 12:10	16194542484	YBS Construction Engineering	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
57	4/6/22 12:10	17604709550	WG CONSTRUCTION INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
58	4/6/22 12:10	16195939591	Hankins Construction Inc	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
59	4/6/22 12:10	16197497186	BLACK IPO	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
60	4/6/22 12:10	17603057253	FALCON CONSTRUCTION CO	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
61	4/6/22 12:10	18584878355	WHITSON CONTRACTING & MANAGEME	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
62	4/6/22 12:10	18584337215	SALZANO ENGINEERING INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
63	4/6/22 12:10	16195617686	NEW CENTURY CONSTRUCTION INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
64	4/6/22 12:10	17606238725	AB HASHMI INC	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
65	4/6/22 12:10	18589257337	PIPERIN CORP	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442
66	4/6/22 12:10	16199233828	Accent Engineering And Constru	ITB from Sukut Construction, LLC - Revised Bid Date: April 29, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442

A8. Re-Emailed Upon Request

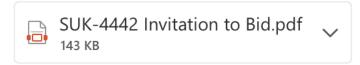




Rosalie Vivanco

Tue 4/5/2022 11:05 AM

To: ksuthe4187@aol.com



Greetings Bill,

Attached is an Invitation to Bid from Sukut Construction that I called about.

Based on our brief conversation, I have marked your firm as not bidding.

However, it would be greatly appreciated if you could reply to this email to confirm.

Thanks in advance, Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: www.sbeinc.com

Reply Forward

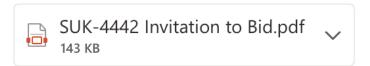




Rosalie Vivanco

Mon 4/4/2022 10:14 AM

To: bill@wgconstructioninc.com



Greetings Bill,

Attached is an Invitation to Bid from Sukut Construction for your review.

Should there be any questions regarding scope or gaining access to the plans and specifications, please contact Tom Wadden via email at: estimating@sukut.com.

Your prompt response to confirm whether bidding/not bidding via email is greatly appreciated.

Thank you, Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com
Website: www.sbeinc.com

Reply





Rosalie Vivanco

Tue 4/26/2022 3:14 PM

To: Makelele@MakeleleSystems.com



Greetings,

Attached is an Invitation to Bid from Sukut Construction for your review.

Should there be any questions regarding scope or gaining access to the plans and specifications, please contact Tom Wadden via email at: estimating@sukut.com.

Your prompt response to confirm whether bidding/not bidding via email is greatly appreciated.

Thank you, Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: <u>www.sbeinc.com</u>

Reply





Rosalie Vivanco

Tue 4/26/2022 2:41 PM

To: GERRY@EGELECTRICALINNOVATIONS.COM



Greetings Gerry,

Attached is an Invitation to Bid from Sukut Construction for your review.

Should there be any questions regarding scope or gaining access to the plans and specifications, please contact Tom Wadden via email at: estimating@sukut.com.

Your prompt response to confirm whether bidding/not bidding via email is greatly appreciated.

Thank you, Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

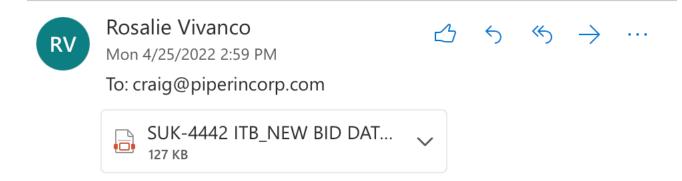
P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: www.sbeinc.com

Reply





Greetings Craig,

Attached is an Invitation to Bid from Sukut Construction for your review.

Should there be any questions regarding scope or gaining access to the plans and specifications, please contact Tom Wadden via email at: estimating@sukut.com.

Your prompt response to confirm whether bidding/not bidding via email is greatly appreciated.

Thank you, Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: www.sbeinc.com

Reply Forward





Rosalie Vivanco Mon 4/25/2022 2:45 PM

To: jmitchell@jesocalsupply.com



Greetings Mr. Mitchell,

Attached is an Invitation to Bid from Sukut Construction for your review.

Should there be any questions regarding scope or gaining access to the plans and specifications, please contact Tom Wadden via email at: estimating@sukut.com.

Your prompt response to confirm whether bidding/not bidding via email is greatly appreciated.

Thank you, Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: www.sbeinc.com

Reply Forward

Organics Processing Facility bid date April 29th





Arianna Davis

Thu 4/14/2022 9:59 AM

To: info@westturf.com

Cc: Rosalie Vivanco



Hi Sergio,

Attached is the Invitation to Bid from Sukut Construction that I called about for your review and consideration. If there are any questions regarding this project and/or you need access to the plans and specs, please contact Robbie Zwick via email at: estimating@sukut.com.

In closing, your prompt written response to confirm whether bidding/not bidding is greatly appreciated.

Thank you, Arianna

Arianna Davis

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 504-320-4220

E. ariannad@sbeinc.com

Website: www.sbeinc.com

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Arianna Davis

Thu 4/14/2022 10:09 AM

To: info@siege-electric.com

Cc: Rosalie Vivanco



Hi Joshua,

Attached is the Invitation to Bid from Sukut Construction that I called about for your review and consideration. If there are any questions regarding this project and/or you need access to the plans and specs, please contact Robbie Zwick via email at: estimating@sukut.com.

In closing, your prompt written response to confirm whether bidding/not bidding is greatly appreciated.

Thank you, Arianna

Arianna Davis

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 504-320-4220

E. ariannad@sbeinc.com Website: www.sbeinc.com

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Organics processing Facility bid date April 29th



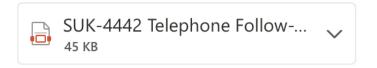


Arianna Davis

Thu 4/14/2022 3:11 PM

To: kev.kutina@kevcon.us

Cc: Rosalie Vivanco



Hi Kevin,

Attached is the Invitation to Bid from Sukut Construction that I called about for your review and consideration. If there are any questions regarding this project and/or you need access to the plans and specs, please contact Robbie Zwick via email at: estimating@sukut.com.

In closing, your prompt written response to confirm whether bidding/not bidding is greatly appreciated.

Thank you, Arianna

Arianna Davis Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 504-320-4220

E. ariannad@sbeinc.com

Website: www.sbeinc.com

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Organics Processing Facility



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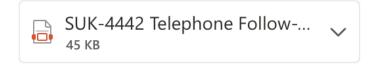


Arianna Davis

Thu 4/14/2022 4:05 PM

To: audrey@kendrick-sd.com

Cc: Rosalie Vivanco



Hi Audrey,

Attached is the Invitation to Bid from Sukut Construction that I called about for your review and consideration. If there are any questions regarding this project and/or you need access to the plans and specs, please contact Robbie Zwick via email at: estimating@sukut.com.

In closing, your prompt written response to confirm whether bidding/not bidding is greatly appreciated.

Thank you, Arianna

Arianna Davis

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 504-320-4220

E. ariannad@sbeinc.com

Website: www.sbeinc.com

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Organics Processing Facility bid date April 29th





Arianna Davis

Thu 4/14/2022 4:07 PM

To: dennisi@iosdv.com

Cc: Rosalie Vivanco



Hi Dennis,

Attached is the Invitation to Bid from Sukut Construction that I called about for your review and consideration. If there are any questions regarding this project and/or you need access to the plans and specs, please contact Robbie Zwick via email at: estimating@sukut.com.

In closing, your prompt written response to confirm whether bidding/not bidding is greatly appreciated.

Thank you, Arianna

Arianna Davis

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 504-320-4220

E. ariannad@sbeinc.com

Website: www.sbeinc.com

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Organics Processing Project bid due April 12,2022 At noon



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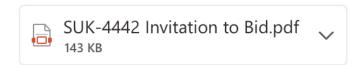


Arianna Davis

Tue 4/5/2022 11:09 AM

To: jonk@kayconstructionco.com

Cc: Rosalie Vivanco



Hi Jon,

Attached is the Invitation to Bid from Sukut Construction that I called about for your review and consideration. If there are any questions regarding this project and/or you need access to the plans and specs, please contact Robbie Zwick via email at: estimating@sukut.com.

In closing, your prompt written response to confirm whether bidding/not bidding is greatly appreciated.

Thank you, Arianna

Arianna Davis

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 504-320-4220

E. ariannad@sbeinc.com

Website: www.sbeinc.com

Small Business Exchange - SBE Inc

Small Business Exchange Inc., is the ultimate business information hub for small businesses, disadvantaged, Asian, Black, Hispanic Women and Disabled Western-owned Business.

Sukut Construction - Organics Processing Facility, San Diego, Ca RFP No. K-22-2049-DB1-3-C

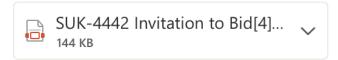




Trudy Arellano

Tue 4/5/2022 11:13 AM

To: erin@goodearthplants.com



Hi Erin,

Attached is the Invitation to Bid from Sukut Construction that I called about for your review and consideration. If there are any questions regarding this project and/or you need access to the plans and specs, please contact Tom Wadden via email at: estimating@sukut.com.

In closing, your prompt response to confirm whether bidding/not bidding is greatly appreciated.

Thank you, Trudy

Trudy Arellano Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 626.625.6310

E. <u>trudya@sbeinc.com</u>
Website: www.sbeinc.com

Reply

Sukut Construction - Organics Processing Facility, San Diego, Ca RFP No. K-22-2049-DB1-3-C



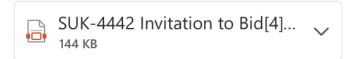
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Trudy Arellano

Tue 4/5/2022 10:44 AM

To: office@entenmangroup.com



Hi Christina,

Attached is the Invitation to Bid from Sukut Construction that I called about for your review and consideration. If there are any questions regarding this project and/or you need access to the plans and specs, please contact Robbie Zwick via email at: estimating@sukut.com.

In closing, your prompt response to confirm whether bidding/not bidding is greatly appreciated.

Thank you, Trudy

Trudy Arellano Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 626.625.6310

E. <u>trudya@sbeinc.com</u>
Website: <u>www.sbeinc.com</u>

Reply

Sukut Construction - Organics Processing Facility, San Diego, Ca RFP No. K-22-2049-DB1-3-C

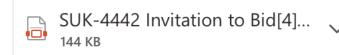




Trudy Arellano

Tue 4/5/2022 10:01 AM

To: bids@coastlandscaping.com



Hi Tyler,

Attached is the Invitation to Bid from Sukut Construction that I called about for your review and consideration. If there are any questions regarding this project and/or you need access to the plans and specs, please contact Robbie Zwick via email at: estimating@sukut.com.

In closing, your prompt response to confirm whether bidding/not bidding is greatly appreciated.

Thank you, Trudy

Trudy Arellano

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 626.625.6310

E. trudya@sbeinc.com

Website: www.sbeinc.com

Reply

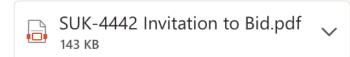




Rosalie Vivanco

Mon 4/4/2022 9:59 AM

To: rebeccab@xpdcom.com



Greetings Rebecca,

Attached is an Invitation to Bid from Sukut Construction for your review.

Should there be any questions regarding scope or gaining access to the plans and specifications, please contact Tom Wadden via email at: estimating@sukut.com.

Your prompt response to confirm whether bidding/not bidding via email is greatly appreciated.

Thank you, Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: www.sbeinc.com

Reply

Not Bidding - Confirmation Needed For Organic Processing Facility Project In San Diego, CA





Rosalie Vivanco

Mon 4/25/2022 9:36 AM

To: john@axlco.com

Cc: Arianna Davis



Hi John,

We previously called you back on April 14, 2022 and during that call, you stated that you would not be bidding on this project.

Would you mind replying to this email to confirm the not bidding response?

Thanks in advance.

Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com

Website: www.sbeinc.com

Not Bidding - Confirmation Needed For Organic Processing Facility Project In San Diego, CA





Rosalie Vivanco











Fri 4/15/2022 10:45 AM

To: dlebeau@southwestsignal.com;ahussein@soutwestsignal.com



SUK-4442 Telephone Follow-...



Greetings,

We previously called your firm back on April 5, 2022 and during that call, it was stated

that you would not be bidding on this project.

Would you mind replying to this email to confirm the not bidding response.

Thanks in advance Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com

Website: www.sbeinc.com

Not Bidding - Confirmation Needed For Organic Processing Facility Project In San Diego, CA





Rosalie Vivanco



To: BernalBuildersinc@gmail.com



Hi Manuel,

We previously called you back on April 5, 2022 and during that call, you stated that you would not be bidding on this project.

Would you mind replying to this email to confirm the not bidding response?

Thanks in advance Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: www.sbeinc.com

Reply

Not Bidding - Confirmation Needed - For Organic Processing Facility Project In San Diego, CA



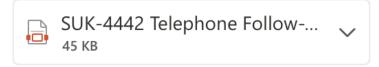


Rosalie Vivanco

Fri 4/15/2022 10:33 AM

To: john@axlco.com

ou ou ail to n



Greetings John,

We previously contacted you back on April 5, 2022 and during that call, you stated

that you would not be bidding on this project.

Would you mind replying to this email to confirm the not bidding response?

Thanks in advance Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: www.sbeinc.com

Reply

Not Bidding Confirmation Needed For Organics Processing Facility Project In San Diego, CA



Rosalie Vivanco









Thu 4/14/2022 3:50 PM

To: derek@maximcci.com

Greetings Mr. Franken,

We previously called you back on April 5, 2022 and during that call, you stated that you would not be bidding on this project because your company is not union.

We would greatly appreciate it if you could reply to this email to confirm this information.

Thanks in advance.

Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: www.sbeinc.com

Reply

Not Bidding - Confirmation Needed For Organics Processing Facility Project In San Diego, CA



Rosalie Vivanco











Thu 4/14/2022 3:59 PM

To: pavnldy@hankinsconstruction.com

Greetings Debbie,

We previously called you back on April 5, 2022 and during that call, you stated that you would not be bidding on this project.

Would you mind replying to this email to confirm the not bidding response.

Thanks in advance.

Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: www.sbeinc.com

Reply

Not Bidding - Confirmation Needed For Organics Processing Facility Project In San Diego, CA

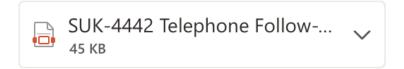




Rosalie Vivanco

Thu 4/14/2022 4:05 PM

To: DK@knightpowerelectric.com



Greetings David,

We previously called you back on April 5, 2022 and during that call, you stated that you would not be bidding on this project.

Would you mind replying to this email to confirm the not bidding response.

Thanks in advance. Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: www.sbeinc.com

Reply Forward

B1. Telephone Follow-up Script

Prepared for: **SUKUT Construction**

Re: Organics Processing Facility, San Diego, CA

RFP No. K-22-2049-DB1-3-C

Location: San Diego, CA

Bids Due: April 12, 2022 @ 12:00 PM

Request written response from Bidders and non-bidders.

I am calling on behalf of SUKUT Construction.

They are bidding on the <u>Organics Processing Facility Project in San Diego, CA</u> and are very much interested in subcontractor and supplier participation.

[For Voice Message]:

My name is _____ from the Small Business Exchange and I'm calling on behalf of **SUKUT Construction**.

We sent an Invitation to Bid for the Organics Processing Facility Project in San Diego, CA.

It bids on April 12th, 2022

Note: Sukut is requesting written responses from bidding and non bidding firms. If you would like us to resend the invitation Please call 800-800-8534 ext. 307 and refer to project **4442** for (SUKUT). We greatly appreciate your response, as soon as you can.

Questions

#1 We emailed and faxed you the invitation. Did you

receive it?

#2 Are you interested in

participating?

#3 In what portion of the work?

#4 Can **SUKUT** assist you in any way? (examples are: bonding, financing,

insurance, obtain: equipment, supplies and materials, access to plans and specs, meeting payroll,

etc.

B2. Follow-up Telephone Log

********	****** SMALL BUS	SINESS EXCHAN	IGE, INC. ************	****** PAGE: 1
*	*			*
*	* REQUE	ST FULFILLME	INT	*
* RVIVANCO		CRIPT RESULTS		*
********				******
			JT CONST ORGANIC PRO	
COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	COMMENT
Accent Engineering And Constru				
	TARELLAN	12:10:11		
Rodney L Thompson Alvarez and Shaw Inc	619-454-2484	04/04/2022	1-RY Yes, received invitation 2-UNB Not sure of int in bid	spoke to Dave
CHASE ALVAREZ	TARELLAN	12:12:48	2-UNB Not sure of int in bid	Have not looked @ it
Ambrit Services Inc	619-582-9600	04/04/2022	1-RY Yes, received invitation 2-NRE Remove from Bidders List	
Ambrit Services Inc Chris Hyams AB HASHMI INC	TARELLAN	12:15:26	2-NRE Remove from Bidders List	
AB HASHMI INC	760-672-8059	04/04/2022	1-RY Yes, received invitation	Spoke to Ahmad
Mr. Ahmad Hashmi	TARELLAN	12:17:33	2-UNB Not sure of int in bid 1-LVM Lft Msg on VM	have not looked @ it
ABBA Project Management	203-940-0880	04/04/2022	1-LVM Lft Msg on VM	
Alexander Buggy		12:19:19		
ACCURATE ASPHALT & CONCRETE IN	619-303-1829	04/04/2022	1-LVM Lft Msg on VM	
Deacon Markey	TARELLAN	12:21:34		
ACME SAFETY & SUPPLY CORP	619-299-5100	04/04/2022	1-RUE Not sure if recvd; email	Spoke Richard Resend
Richard Benar	TARELLAN	12:43:10	2-UNB Not sure of int in bid 1-RYE Yes, rcvd ITB/Emaild Resp 2-YRR Yes/Bidding Response Rcvd	Resent to new email
AHRENS MECHANICAL	619-487-9036	04/04/2022	1-RYE Yes, rcvd ITB/Emaild Resp	Spk to Nancy, Resent
Mr. Greg Ahrens	TARELLAN	12:52:27	2-YRR Yes/Bidding Response Rovo	l Needs WR from SUKUT
			3-	TBD
			4-A_N Yes, need assistance	No PLA or Union
AXL Group INC			1-RY Yes, received invitation	Spoke to John
John Rillman Bartholo		12:57:12		RequestedWrittenResp
Bernal Builders Inc	619-540-9618	04/04/2022	1-RY Yes, received invitation	
MANUEL BERNAL		12:59:31	_ '' '	RequestedWrittenResp
Blue Swell Construction Manage	951-315-8057	04/04/2022	1-LVM Lft Msg on VM	
Laurie Vasquez	TARELLAN	13:02:37		
Brino Builders Inc			1-RUE Not sure if recvd; email	
ENRIQUE VELEZ		13:10:27		Resent invitation
Buescher Electric INC DBA Serv	858-748-8478	04/04/2022	1-RY Yes, received invitation	
Anthony Buescher		12:04:28		he does electrical
BC3 Equipment Inc			1-LM Lft msg	spoke to Shauna
Benny Carroll Jr	TARELLAN	13:13:14		
BERT W SALAS INC			1-CNP Cannot Process	would not transfer
BOB SALAZ		13:16:36		
BLACK SAGE ENVIRONMENTAL INC			1-LVM Lft Msg on VM	
Jason Allen	TARELLAN	13:18:28		
BONITA PIPELINE INC	619-434-9801	04/04/2022	1-LVM Lft Msg on VM	
Mr. Francisco MARQUEZ	TARELLAN	13:20:48		

********	***** SMALL BUS	INESS EXCHANGE	E, INC. ************	***** PAGE: 2
*	*			*
*	* REQUE	ST FULFILLMENT	T	*
* RVIVANCO	* SCI	RIPT RESULTS	*	*
*********	******	*****	********	******
TYPE: SCR TOPIC: dmo-4442				
COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	COMMENT
Cecilia's Safety Services INC	858-793-4465	04/04/2022	1-LVM Lft Msg on VM	
CECILIA OSTLUND	TARELLAN	13:28:12		
CECILIA OSTLUND Chris Marquart DBA Code 3 Medi Chris Marquart	760-621-3930	04/04/2022	1-LVM Lft Msg on VM	
Chris Marquart	TARELLAN	13:30:00		
Christopher Sparks dba Ocean P	619-994-0606	04/04/2022	1-RY Yes, received invitation	Spoke to Chris
Christophe Sparks Cielo Azul Inc DBA Cielo Azul	TARELLAN	13:31:57	2-UNB Not sure of int in bid 1-RY Yes, received invitation	RequestedWrittenResp
	858-722-7164	04/04/2022		
Pedro (pete) Navarro			2-NW Out of my scope of work	RequestedWrittenResp
Cityscape Services LLC	858-367-0446	04/04/2022	1-RY Yes, received invitation	Spoke to Robert
Robert Secrest	TARELLAN		2-UNB Not sure of int in bid	RequestedWrittenResp
Clarvan Inc DBA Industrial Ma	760-929-0418	04/04/2022 1	1-RY Yes, received invitation	
Ms. Sarah Sloan			2-UNB Not sure of int in bid	RequestedWrittenResp
Coastal Tree Care INC	619-847-4225		1-RY Yes, received invitation	
Joseph Duane Eves	TARELLAN		2-N-I Not interested	RequestedWrittenResp
Cross Construction Inc	760-758-3639		1-LVM Lft Msg on VM	
Greg Drakos	TARELLAN	11:57:12		
Crown Concrete Constructors IN	619-820-4302	04/05/2022	1-LVM Lft Msg on VM	
Melissa W Cook	TARELLAN	12:01:50		
COAST LANDSCAPING INC	760-436-6804	04/05/2022	1-RUE Not sure if recvd; email	
Tyler Mason	TARELLAN		2-UNB Not sure of int in bid	RequestedWrittenResp
CONCRETE BUILDING SYSTEMS CONS	760-731-3224	04/05/2022	1-RU Not sure if received	Spoke to Ty Jones
Karen Chapman	TARELLAN	12:22:49	2-N-I Not interested	
CTE INC	619-733-6791	04/05/2022	1-RY Yes, received invitation	Spoke to Reggie
Reggie Clark	TARELLAN			do not subcontract
D&D Wildlife Habitat Restorati	619-667-3707	04/05/2022	1-LVM Lft Msg on VM	
Douglas W Mckinney	TARELLAN	12:28:14		
David H. Knight DBA Knight Pow	619-365-8216	04/05/2022	1-RY Yes, received invitation	
David Knight	TARELLAN	12:30:18	2-N-I Not interested	RequestedWrittenResp
Dick Miller INC	760-471-6842	04/05/2022	1-LVM Lft Msg on VM	for John Montoya
Mr. Dick Miller		12:33:37		
DLG Contractors Inc			1-CNP Cannot Process	busy signal only
Bryan Grant	TARELLAN	12:35:18		
E&G Electrical Innovations	619-750-3206	04/05/2022	1-LVM Lft Msg on VM	for Gerry
MR. GERRY SAUCEDO	TARELLAN	12:37:52		

*******	***** SMALL BUS	SINESS EXCHAN	GE, INC. ***********	****** PAGE: 3
*	*			*
*	* REQUI	EST FULFILLME	NT	*
* RVIVANCO	* S(CRIPT RESULTS	*	*

TYPE: SCR TOPIC: dmo-4442	SCRIPT: SCR-04 DESCR	RIPTION: SUKU	T CONST ORGANIC PRO	
COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	COMMENT
Enterman Development Crown INC	610 217 2060	04/05/2022	1 DIE Not ours if record, smail	anaka ta Christina
Anna Chaney	TARELLAN	12:53:14	2-UNB Not sure of int in bid	RequestedWrittenResp
Anna Chaney Franco Barnaba DBA Contemporar Ruth Barnaba Frank and Son Paving INC Alicia Vasquez FALCON CONSTRUCTION CO	760-480-9738	04/05/2022	1-CNP Cannot Process	Just keeps ringing
Ruth Barnaba	TARELLAN	12:57:50		
Frank and Son Paving INC	619-422-8322	04/05/2022	1-RUE Not sure if recvd; email	Spoke to Jeanette
Alicia Vasquez	TARELLAN	13:01:43	2-UNB Not sure of int in bid	RequestedWrittenResp
FALCON CONSTRUCTION CO	619-840-8998	04/05/2022	1-LVM Lft Msg on VM	-
Mr. Ahmad Rategh	TARELLAN	13:14:14	,	
Good Earth Living Architecture			1-RUE Not sure if recvd; email	Spoke to Erin
		13:24:13	2-UNB Not sure of int in bid	RequestedWrittenResp
Jim Mumford H+W Engineering INC Thomas Harmon	619-659-8234	04/05/2022	2-UNB Not sure of int in bid 1-LVM Lft Msg on VM	also stated we nd WR
Thomas Harmon	TARELLAN	13:24:50		
Hankins Construction Inc	760-789-4343		1-RY Yes, received invitation	Per Debbie
Deborah Hankins	TARELLAN	13:25:12	2-N-I Not interested	will send WR
Deborah Hankins HABITAT WEST INC	760-735-9378	04/05/2022	2-N-I Not interested 1-LVM Lft Msg on VM	stating we nd WR
Georgia Hurst	ADAVIS	11:48:45	,	
HSCC INC	619-631-7983		1-RUE Not sure if recvd; email	per Monique
Monique Hostetler	ADAVIS	11.56.48	2-UNB Not sure of int in bid	resent itb
IN-LINE FENCE & RAILING CO INC	760-789-0282	04/05/2022	2-UNB Not sure of int in bid 1-LVM Lft Msg on VM	stating nd WR
David ORTIZ	ADAVIS	13:03:38	I BVII BIC 1109 OII VII	Scacing na wit
IO Environmental & Infrastruct			1-RU Not sure if received	per Dennis
Dennis Iverson				
J&E SoCAL Supply Inc	858-451-4661	04/05/2022	2-UNB Not sure of int in bid 1-RU Not sure if received	Per John will cb
John-Paul Mitchell		11:53:56	2-UNB Not sure of int in bid	rer donn with ex
Jon Kay dba Kay Construction C			1-RUE Not sure if recvd; email	ner .T
Jon Kay	ADAVIS	13:14:37	2-UNB Not sure of int in bid	resent itb
Jose Rolon dba DeRollo Pipelin	760-623-9725	04/05/2022	1-LVM Lft Msg on VM	stating we nd WR
Jose Rolon	ADAVIS	11:51:20	I DVN DIC NOG ON VM	scatting we no wa
Kevcon Inc	760-432-0307		1-LVM Lft Msg on VM	stated we nd WR
Kevin Kutina	ADAVIS	13:27:19	I DVN DIC NOG ON VM	Stated we no WA
Kirk Paving Inc	619-938-9959	04/05/2022	1-LVM Lft Msg on VM	stated nd WR
ATTR PAVING THE		13:31:29	I DAN DIC MOG OU AM	Scaced Hu WA
KENDRICK EXCAVATING INC	610 022 010E		1 TVM T ft Mag on VM	atated ad MD
Audrey Kendrick	819-922-9185 ADAVIS	12.12.27	1-LVM Lft Msg on VM	stated nd WR
Audrey Kendrick	ADAVIS	13:12:37		

**************************************	*******	*********** SMALL BUS	INESS EXCHAN	GE, INC. ************	****** PAGE: 4
TYPE: SCR TOPIC: dmo-4442	*	*			*
TYPE: SCR	*	* REQUE	ST FULFILLME	NT	*
TYPE: SCR					*
COMPANY NAME / CONTACT					******
Dow Yoltage Fire INC DBA Low V 760-598-4110 04/05/2022 1-NUM Lft Msg on VM Stating we nd WR					
Dow Yoltage Fire INC DBA Low V 760-598-4110 04/05/2022 1-NUM Lft Msg on VM Stating we nd WR	COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	COMMENT
Makelele Systems Landscape & M 760-208-8749 04/05/2022 1-RU Not sure if received Per Pep	Torr Woltzer Fire INC DDA Torr W	760 500 4110	04/05/2022	1 TVM Tf+ Mag on VM	stating up ad WD
Makelele Systems Landscape & M 760-208-8749 04/05/2022 1-RU Not sure if received Per Pep	Michael Arguijo	ADAVIS	11:49:43		
Makelele Systems Landscape & M 760-208-8749 04/05/2022 1-RU Not sure if received Per Pep	LC Tree Service Inc	619-677-5777	04/05/2022	1-RU Not sure if received	w/ phoebe for Larry
Makelele Systems Landscape & M 760-208-8749 04/05/2022 1-RU Not sure if received Per Pep	Larry Coalson	ADAVIS	13:33:17	2-UNB Not sure of int in bid	RequestedWrittenResp
Makelele Systems Landscape & M 760-208-8749 04/05/2022 1-RU Not sure if received Per Pep	M Carlin Systems INC dba MC Sy	619-270-6206	04/05/2022	1-LVM Lft Msg on VM	for Michael
Makelele Systems Landscape & M 760-208-8749 04/05/2022 1-RU Not sure if received Per Pep	Michael Carlin	ADAVIS	13:33:46		
Makelele Systems Landscape & M 760-208-8749 04/05/2022 1-RU Not sure if received Per Pep	M-Rae Engineering INC	619-445-4496	04/05/2022	1-LVM Lft Msg on VM	
ADAVIS	Joel constance	ADAVIS	13:56:36		
ADAVIS	Makelele Systems Landscape & M	760-208-8749	04/05/2022	1-RU Not sure if received	Per Pep
ADAVIS	Pepe Cardenas	ADAVIS	13:35:10	2-UNB Not sure of int in bid	stated nd WR
ADAVIS	Maxim Construction Co Inc	619-990-4245	04/05/2022	1-RY Yes, received invitation	Spoke to Derek
ADAVIS	Derek Franken	ADAVIS	13:57:45	2-NU Not interested; not union	
ADAVIS	Merino Landscape Inc	619-348-9932	04/05/2022	1-LVM Lft Msg on VM	
Montano Pipeline Inc	Chris Merino	ADAVIS	14:01:16		
Moor Electric INC	Montano Pipeline Inc	619-838-6848	04/05/2022	1-LVM Lft Msg on VM	for Jose
DWAYNE HENRY MILLER PAVING CORP Brett Turley Brett Alaman Apavis Brett Turley Brett Ann Assist not needed 1-LVM Lft Msg on VM Brett	Dan Scheider	ADAVIS	13:56:16		
Brett Turley RVIVANCO 12:25:13 2-YRR Yes/Bidding Response Rcvd Replied 4/1 3- Asphalt 4-ANN Assist not needed MONTGOMERY CONSTRUCTION SERVIC CLIFFORD K MONTGOMERY ADAVIS NEW CENTURY CONSTRUCTION INC Lee P Shellberg Ii ADAVIS Hassan Yarpezeshkan ADAVIS Hassan Yarpezeshkan ADAVIS Precision Striping Inc ADAVIS ADAVIS PAYCO SPECIALTIES INC MS. Rebecca Llewellyn ADAVIS AD	Moor Electric INC	619-250-0380	04/05/2022	1-LVM Lft Msg on VM	
Brett Turley RVIVANCO 12:25:13 2-YRR Yes/Bidding Response Rcvd Replied 4/1 3- Asphalt 4-ANN Assist not needed MONTGOMERY CONSTRUCTION SERVIC CLIFFORD K MONTGOMERY ADAVIS NEW CENTURY CONSTRUCTION INC Lee P Shellberg Ii ADAVIS Hassan Yarpezeshkan ADAVIS Hassan Yarpezeshkan ADAVIS Precision Striping Inc ADAVIS ADAVIS PAYCO SPECIALTIES INC MS. Rebecca Llewellyn ADAVIS AD	DWAYNE HENRY	TARELLAN	14:12:35		
Brett Turley RVIVANCO 12:25:13 2-YRR Yes/Bidding Response Rcvd Replied 4/1 3- Asphalt 4-ANN Assist not needed MONTGOMERY CONSTRUCTION SERVIC CLIFFORD K MONTGOMERY ADAVIS NEW CENTURY CONSTRUCTION INC Lee P Shellberg Ii ADAVIS Hassan Yarpezeshkan ADAVIS Hassan Yarpezeshkan ADAVIS Precision Striping Inc ADAVIS ADAVIS PAYCO SPECIALTIES INC MS. Rebecca Llewellyn ADAVIS AD	MILLER PAVING CORP	619-465-3725	04/04/2022	1-RYE Yes, rcvd ITB/Emaild Resp	Per John Moore
MONTGOMERY CONSTRUCTION SERVIC CLIFFORD K MONTGOMERY ADAVIS NEW CENTURY CONSTRUCTION INC Lee P Shellberg Ii ADAVIS Hassan Yarpezeshkan ADAVIS Precision Striping Inc ADAVIS ADAVIS ADAVIS ADAVIS PAYCO SPECIALTIES INC Ms. Rebecca Llewellyn ADAVIS ADA	Brett Turley	RVIVANCO	12:25:13	2-YRR Yes/Bidding Response Rovd	Replied 4/1
MONTGOMERY CONSTRUCTION SERVIC CLIFFORD K MONTGOMERY 619-578-2538 ADAVIS 04/05/2022 14:00:56 1-LVM Lft Msg on VM for Cliff NEW CENTURY CONSTRUCTION INC Lee P Shellberg Ii 619-390-3300 ADAVIS 04/05/2022 14:00:10 1-LM Lft msg w receptionist 4 lee Phoenix Renewable Services LL Hassan Yarpezeshkan 559-225-5777 ADAVIS 04/05/2022 1-LVM Lft Msg on VM for Hassan Precision Striping Inc 619-432-1154 ADAVIS 04/05/2022 1-DIS # Disconnect; no new # number not in servic PAYCO SPECIALTIES INC Ms. Rebecca Llewellyn 619-422-9204 ADAVIS 04/05/2022 1-RUE Not sure if recvd; email per rebe per rebe Ms. Rebecca Llewellyn ADAVIS ADAVIS 13:47:12 13:47:12 2-UNB Not sure of int in bid resent itb PIPERIN CORP Craig Barry ADAVIS ADAVIS 14:00:10 14:00:10 1-RU Not sure of int in bid reg WR 404/05/2022 Quality Construction & Enginee 858-215-2692 04/05/2022 04/05/2022 1-LVM Lft Msg on VM for Mohammad				3-	Asphalt
CLIFFORD K MONTGOMERY NEW CENTURY CONSTRUCTION INC 619-390-3300 04/05/2022 1-LM Lft msg w receptionist 4 lee Lee P Shellberg Ii Phoenix Renewable Services LL Hassan Yarpezeshkan ADAVIS 13:58:12 Precision Striping Inc 619-432-1154 ADAVIS 13:58:12 Precision Striping Inc ADAVIS 13:41:20 PAYCO SPECIALTIES INC 619-422-9204 Ms. Rebecca Llewellyn ADAVIS 13:47:12 ADAVIS 13:47:12 2-UNB Not sure of int in bid Craig Barry ADAVIS ADAVIS 14:00:56 04/05/2022 1-LW Lft msg on VM for Hassan FOR Hassan Number not in servic 13:41:20 PAYCO SPECIALTIES INC 619-422-9204 04/05/2022 1-RUE Not sure if recvd; email PORT PROCEDURE OF THE PROCEDURE				4-ANN Assist not needed	
NEW CENTURY CONSTRUCTION INC 619-390-3300 04/05/2022 1-LM Lft msg w receptionist 4 lee Lee P Shellberg Ii ADAVIS 14:00:10 14:00:10 14:00:10 14:00:10 14:00:10 14:00:10 15:00:10 15:00:10 15:00:10 15:00:10 15:00:10 15:00:10 15:00:10 16:00:10	MONTGOMERY CONSTRUCTION SERVIC	619-578-2538	04/05/2022	1-LVM Lft Msg on VM	for Cliff
Lee P Shellberg Ii ADAVIS 14:00:10 Phoenix Renewable Services LL 559-225-5777 04/05/2022 1-LVM Lft Msg on VM for Hassan ADAVIS 13:58:12 Precision Striping Inc 619-432-1154 04/05/2022 1-DIS # Disconnect; no new # number not in servic ADAVIS 13:41:20 PAYCO SPECIALTIES INC 619-422-9204 04/05/2022 1-RUE Not sure if recvd; email per rebe Ms. Rebecca Llewellyn ADAVIS 13:47:12 2-UNB Not sure of int in bid resent itb PIPERIN CORP 760-305-7248 04/05/2022 1-RU Not sure of int in bid req WR Quality Construction & Enginee 858-215-2692 04/05/2022 1-LVM Lft Msg on VM for Mohammad	CLIFFORD K MONTGOMERY	ADAVIS	14:00:56		
Phoenix Renewable Services LL				1-LM Lft msg	w receptionist 4 lee
Hassan Yarpezeshkan			14:00:10		
Hassan Yarpezeshkan	Phoenix Renewable Services LL	559-225-5777	04/05/2022	1-LVM Lft Msg on VM	for Hassan
ADAVIS 13:41:20 PAYCO SPECIALTIES INC 619-422-9204 04/05/2022 1-RUE Not sure if recvd; email per rebe Ms. Rebecca Llewellyn ADAVIS 13:47:12 2-UNB Not sure of int in bid resent itb PIPERIN CORP 760-305-7248 04/05/2022 1-RU Not sure if received per Cra Craig Barry ADAVIS 14:04:21 2-UNB Not sure of int in bid req WR Quality Construction & Enginee 858-215-2692 04/05/2022 1-LVM Lft Msg on VM for Mohammad	Hassan Yarpezeshkan	ADAVIS	13:58:12		
ADAVIS 13:41:20 PAYCO SPECIALTIES INC 619-422-9204 04/05/2022 1-RUE Not sure if recvd; email per rebe Ms. Rebecca Llewellyn ADAVIS 13:47:12 2-UNB Not sure of int in bid resent itb PIPERIN CORP 760-305-7248 04/05/2022 1-RU Not sure if received per Cra Craig Barry ADAVIS 14:04:21 2-UNB Not sure of int in bid req WR Quality Construction & Enginee 858-215-2692 04/05/2022 1-LVM Lft Msg on VM for Mohammad	Precision Striping Inc	619-432-1154	04/05/2022	1-DIS # Disconnect; no new #	number not in servic
PIPERIN CORP 760-305-7248 04/05/2022 1-RU Not sure if received per Cra Craig Barry ADAVIS 14:04:21 2-UNB Not sure of int in bid req WR Quality Construction & Enginee 858-215-2692 04/05/2022 1-LVM Lft Msg on VM for Mohammad		ADAVIS	13:41:20		
PIPERIN CORP 760-305-7248 04/05/2022 1-RU Not sure if received per Cra Craig Barry ADAVIS 14:04:21 2-UNB Not sure of int in bid req WR Quality Construction & Enginee 858-215-2692 04/05/2022 1-LVM Lft Msg on VM for Mohammad	PAYCO SPECIALTIES INC	619-422-9204	04/05/2022	1-RUE Not sure if recvd; email	per rebe
PIPERIN CORP 760-305-7248 04/05/2022 1-RU Not sure if received per Cra Craig Barry ADAVIS 14:04:21 2-UNB Not sure of int in bid req WR Ouality Construction & Enginee 858-215-2692 04/05/2022 1-LVM Lft Msg on VM for Mohammad			13:47:12	2-UNB Not sure of int in bid	resent itb
Craig Barry ADAVIS 14:04:21 2-UNB Not sure of int in bid req WR Quality Construction & Enginee 858-215-2692 04/05/2022 1-LVM Lft Msg on VM for Mohammad Mohammad Qahoush ADAVIS 13:55:28	PIPERIN CORP	760-305-7248	04/05/2022	1-RU Not sure if received	
Quality Construction & Enginee 858-215-2692 04/05/2022 1-LVM Lft Msg on VM for Mohammad Mohammad Qahoush ADAVIS 13:55:28	Craig Barry	ADAVIS	14:04:21	2-UNB Not sure of int in bid	req WR
Mohammad Qahoush ADAVIS 13:55:28	Quality Construction & Enginee	858-215-2692	04/05/2022	1-LVM Lft Msg on VM	for Mohammad
	Mohammad Qahoush	ADAVIS	13:55:28		

*******	****** SMALL BUS	SINESS EXCHAN	GE, INC. ************	****** PAGE: 5
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*	* REQUE	ST FULFILLME	NT	*
* * RVIVANCO ************************************	* SC	CRIPT RESULTS	*	*

TYPE: SCR TOPIC: dmo-4442	SCRIPT: SCR-04 DESCR	RIPTION: SUKU	T CONST ORGANIC PRO	
COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	COMMENT
QSB CONSTRUCTION	888-600-1748	04/05/2022	1-LVM Lft Msg on VM	for Vanessa
Vanessa Valdez	ADAVIS	14:03:29		
Vanessa Valdez R. Montanez Contracting INC DB Mr. RICARDO D. MONTANEZ	619-420-3366	04/05/2022	1-LVM Lft Msg on VM	for Ric
Mr. RICARDO D. MONTANEZ	ADAVIS	14:04:56		
Reilly Construction Management	760-310-9816	04/05/2022	1-IJM Lft Mag on VM	
Scott Reilly	RVIVANCO	13:59:37		
Scott Reilly REC Trucking INC dba AR Concre Rafael Teran	619-946-4638	04/05/2022	1-LVM Lft Msg on VM	
Rafael Teran	RVIVANCO	13:56:37	-	
RP General Construction Inc D	760-294-1669	04/05/2022	1-IVM Lft Msg on VM	
Yvette Yanez	RVIVANCO	13:55:31		
San Diego Native Landscapes In	619-857-4777	04/05/2022	1-LVM Lft Msg on VM	
JOSE SANTANA	RVIVANCO	13:52:42	-	
Sattler Solar INC	619-880-0445	04/05/2022	1-LVM Lft Msg on VM	858-414-7094
Yvette Yanez San Diego Native Landscapes In JOSE SANTANA Sattler Solar INC Erik Sattler Siege Electric INC Joshua Middleton	RVIVANCO	13:49:59		
Siege Electric INC	619-631-7471	04/05/2022	1-LVM Lft Msg on VM	
Joshua Middleton	RVIVANCO	13:46:43		
SALZANO ENGINEERING INC	619-593-9592	04/05/2022	1-RYE Yes, rcvd ITB/Emaild Resp	Per Felicia
Ms. Felicia Salzano	RVIVANCO	13:43:35	2-NRR No/Not Bidding Resp Rcvd	Replied 4/5
SATURN ELECTRIC INC	858-271-4100	04/05/2022	1-LVM Lft Msg on VM	
Mr. Ronald Dudek	RVIVANCO	13:41:41		
Joshua Middleton SALZANO ENGINEERING INC Ms. Felicia Salzano SATURN ELECTRIC INC Mr. Ronald Dudek SJ Electric	619-328-1305	04/05/2022	1-RU Not sure if received 2-UNB Not sure of int in bid 1-RY Yes, received invitation 2-N_B No, we will not bid	LM for Samuel
Samuel Judd	TARELLAN	13:25:31	2-UNB Not sure of int in bid	
SOUTHWEST TRAFFIC SIGNAL SERVI	619-442-3343	04/05/2022	1-RY Yes, received invitation	
James Cress	RVIVANCO	13:07:29	2-N_B No, we will not bid	WR Requested
SPECS Civil Solutions Inc DBA	858-790-1445	04/05/2022	1-LVM Lft Msg on VM	
AMANDA ERNST	RVIVANCO	13:08:36		
SUBSURFACE SURVEYS & ASSOCIATE Mr. George Herman	760-476-0492	04/05/2022	1-LVM Lft Msg on VM	
Mr. George Herman	RVIVANCO	13:14:12		
CUMULEDI IN COMEDICATIO INC	610 500 0005	04/05/2022	1 DVE Voc world IED/Empild Doc	Per Kristi
Kristi Sutherlin	RVIVANCO	13:14:05	2-NRR No/Not Bidding Resp Rcvd	Replied 4/5
Kristi Sutherlin Terra Group Landscape LLC Abner Dominguez Transtar Pipeline INC	619-708-5971	04/05/2022	1-RY Yes, received invitation	Will check with team
Abner Dominguez	RVIVANCO	13:19:20	2-UNB Not sure of int in bid	
Transtar Pipeline INC	858-453-0744	04/05/2022	1-LVM Lft Msg on VM	
Cynthia S Brito	RVIVANCO	13:21:44		

*******	***** SMALL BUS	INESS EXCHAN	GE, INC. ************************** PAGE: 6
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*	* REQUE	ST FULFILLME	NT *
* RVIVANCO	* SC	CRIPT RESULTS	NT
********	******	*******	***********
TYPE: SCR TOPIC: dmo-4442			
COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO COMMENT
TIERRA DATA INC	760-749-2247	04/05/2022	1-LVM Lift Msg on VM
Elizabeth Kellogg	RVIVANCO	13:22:39	
UNDERGROUND UTILITIES INC	619-461-9500	04/05/2022	1-RYE Yes, royd ITB/Emaild Resp Per Valerie
Michael Harness	RVIVANCO	13:27:34	2-NRR No/Not Bidding Resp Rcvd Replied 4/5
UNITED GENERAL CONSTRUCTION IN	623-810-0028	04/05/2022	1-LVM Lft Msg on VM
Cristen Mason	RVIVANCO	13:31:13	
Valley CM Inc DBA Valley Const	858-444-5979	04/05/2022	1-RY Yes, received invitation Spoke to Galina
Galina Mochel	RVIVANCO	13:31:33	2-N B No, we will not bid WR Requested
Western State Builders INC	760-270-8639	04/05/2022	1-LVM Lft Msg on VM
Julian Moen	RVIVANCO	13:37:47	1-LVM Lft Msg on VM 1-RYE Yes, rcvd ITB/Emaild Resp Per Valerie 2-NRR No/Not Bidding Resp Rcvd Replied 4/5 1-LVM Lft Msg on VM 1-RY Yes, received invitation Spoke to Galina 2-N_B No, we will not bid WR Requested 1-LVM Lft Msg on VM 2-VIB Not sure of int in bid 1-RY Yes, received invitation Spoke to Matt 2-YIB Yes/interested in bidding
Westturf Landscape Management	760-650-3120	04/05/2022	1-LVM Lft Msg on VM
Sergio Graham	RVIVANCO	13:34:39	
WENDELL STEMLEY	619-527-1668	04/04/2022	1-LVM Lft Msg on VM
WENDELL STEMLEY	RVIVANCO	15:43:15	
WESTERN GARDENS LANDSCAPING IN	760-720-1459	04/04/2022	1-LVM Lft Msg on VM For Greg
Greg Vasilieff	RVIVANCO	15:45:45	
WG CONSTRUCTION INC	619-401-8000	04/04/2022	1-RNE Didn't receive inv/Email Resent to Bill
William Gwyn	RVIVANCO	12:23:51	2-UNB Not sure of int in bid
WHITSON CONTRACTING & MANAGEME	858-673-0966	04/04/2022	1-RY Yes, received invitation Spoke to Matt
Mitchel Whitson	RVIVANCO	12:18:46	2-YIB Yes/interested in bidding
			3- TBD-Reviewing
			4-ANN Assist not needed
Xpedient Communication INC	858-964-5333	04/04/2022	1-RUE Not sure if recvd; email Resent to Rebecca
Doug Catania	RVIVANCO	12:16:42	2-UNB Not sure of int in bid
YBS Construction Engineering	619-271-6122	04/04/2022	1-DIS # Disconnect; no new # #Not In Service
Rodolfo Sanchez	RVIVANCO	11:57:45	
ZASUETA CONTRACTING INC	619-589-0609	04/04/2022	1-RY Yes, received invitation
Mr. Edward Zasueta	RVIVANCO	11:53:20	2-NW Out of my scope of work Playground equip Ins
3Sixty Innovation inc	858-304-1093	04/04/2022	2-UNB Not sure of int in bid 1-DIS # Disconnect; no new # #Not In Service 1-RY Yes, received invitation 2-NW Out of my scope of work 1-RU Not sure if received IM For Bill VIII Not sure if received IM For Bill VIII Contains the state of the second service in the second second service in the second service in the second second service in the second seco
Monamad Munsin	RVIVANCO	11:48:03	2-UNB Not sure of int in bid Will Cjeck email
99 RECORDS LISTED			

B3. Recall 1 Telephone Log

********	***** SMALL BU	SINESS EXCHAN	NGE, INC. *************	****** PAGE: 1
*	*			*
*	* REQU	EST FULFILLME	ENT	*
* RVIVANCO	* S	CRIPT RESULTS	````	*
TYPE: SCR TOPIC: dmo-4442			JT CONST ORGANIC PRO	
COMPANY NAME / CONTACT			# RESP & DESCRIPTIO	
3 1 - T 1 1 3 1 - C 1	C10 0F4 40F0	04/14/0000	1 7770 7 61 0 1 1 1 1 1 7 7 7 7 7 7 7 7 7 7 7 7 7	T.M.
Rodney L Thompson	ADAVIS	16:22:43		
Rodney L Thompson Alvarez and Shaw Inc CHASE ALVAREZ AB HASHMI INC Mr. Ahmad Hashmi ABBA Project Management	619-454-2484	04/14/2022	1-RY Yes, received invitation	per dave
CHASE ALVAREZ	ADAVIS	16:45:14	2-UNB Not sure of int in bid	requested wr
AB HASHMI INC	760-672-8059	04/14/2022	1-RY Yes, received invitation	Per ah
Mr. Ahmad Hashmi	ADAVIS	16:46:07	2-UNB Not sure of int in bid	requested WR
ABBA Project Management	203-940-0880	04/14/2022	1-LV2 Lft 2nd Msg on VM	requested wr
Alexander Buggy	ADAVIS	17:53:14		
ACCURATE ASPHALT & CONCRETE IN	619-303-1829	04/14/2022	1-LV2 Lft 2nd Msg on VM	requested wr
Alexander Buggy ACCURATE ASPHALT & CONCRETE IN Deacon Markey ACME SAFETY & SUPPLY CORP	ADAVIS	17:54:15		
ACME SAFETY & SUPPLY CORP	619-299-5100	04/14/2022	1-LV2 Lft 2nd Msg on VM	requested wr
Richard Benar	ADAVIS	18:06:42		
Ambrit Services Inc	619-582-9600	04/14/2022	1-LVM Lft Msg on VM 1-RY Yes, received invitation 2-N_B No, we will not bid	WR Requested
Chris Hyams	RVIVANCO	17:48:06		
AXL Group INC	760-470-9550	04/14/2022	1-RY Yes, received invitation	
John Rillman Bartholo	ADAVIS	18:08:22	2-N B No, we will not bid	
BERT W SALAS INC	619-562-7711	04/15/2022	1-RYE Yes, received invitation	Resent to Christian
BOB SALAZ	RVIVANCO	12:25:40	2-NRR No, we will not bid	WR Rec'd 4/15
Blue Swell Construction Manage	951-315-8057	04/14/2022	1-RUE Not sure if recvd; email	resent itb
Laurie Vasquez	ADAVIS	17:55:10	2-UNB Not sure of int in bid	requested wr
Buescher Electric INC DBA Serv	858-748-8478	04/14/2022	1-RY Yes, received invitation	-
Chris Hyams AXL Group INC John Rillman Bartholo BERT W SALAS INC BOB SALAZ Blue Swell Construction Manage Laurie Vasquez Buescher Electric INC DBA Serv Anthony Buescher BC3 Equipment Inc Benny Carroll Jr BERNAL BUILDERS INC	ADAVIS	16:47:07	2-UNB Not sure of int in bid	requested wr
BC3 Equipment Inc	619-312-2663	04/14/2022	1-LV2 Lft 2nd Msg on VM	requested wr
Benny Carroll Jr	ADAVIS	18:12:00	-	-
BERNAL BUILDERS INC	619-540-9618	04/14/2022	1-LV2 Lft 2nd Msg on VM	requested wr
MANUEL BERNAL BLACK SAGE ENVIRONMENTAL INC Jason Allen	ADAVIS	18:07:11	3	±
BLACK SAGE ENVIRONMENTAL INC	619-876-0745	04/14/2022	1-LV2 Lft 2nd Msg on VM	LM
Jason Allen	ADAVIS	16:43:28		
BONITA PIPELINE INC	619-434-9801	04/14/2022	1-I.V2 I.ft 2nd Msg on VM	I.M requested wr
Mr. Francisco MAROUEZ	ADAVIS	16:52:26		
Mr. Francisco MARQUEZ BRINO BUILDERS INC ENRIQUE VELEZ Chris Marquart DBA Code 3 Medi Chris Marquart	619-227-9205	04/14/2022	1-RY Yes, received invitation	per Enria
ENRIQUE VELEZ	ADAVIS	16:53:14	2-UNB Not sure of int in bid	requested wr
Chris Marquart DBA Code 3 Medi	760-621-3930	04/14/2022	1-RII Not sure if received	requested wr
Chris Marquart	ADAVIS	17.57.34	2-IINB Not sure of int in hid	will send email by
onitio marquare	110111110	11.01.04	2 OND NOC SUIC OF THE III DIG	will bend email by

********	***** SMALL BUS	SINESS EXCHAN	NGE, INC. *************	***** PAGE: 2
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*		EST FULFILLME		*
* RVIVANCO *********************		CRIPT RESULTS		*

TYPE: SCR TOPIC: dmo-4442				001017337
COMPANY NAME / CONTACT	PHONE / CALLER		# RESP & DESCRIPTIO	COMMENT
Christopher Sparks dba Ocean P			1 DV Vog regeined invitation	
Christophe Sparks	019-994-0000	17.50.40	2-UNB Not sure of int in bid	requested wi
Cielo Azul Inc DBA Cielo Azul	ADAVIS	1/:30:40	1 TVM If+ Mag on VM	MD Dog from Dodge
Pedro (pete) Navarro		17:50:11	I-LVM LIC MSG ON VM	wk keq. Ifom redio
Cityscape Services LLC	050 267 0446	1/:30:11	1-LV2 Lft 2nd Msg on VM	IM magnested WD
Robert Secrest		15:15:24	1-1/2 LIC ZIIG MSG OII VM	LM requested WK
Coastal Tree Care INC			1-LVM Lft Msg on VM	For Carah-WD Box
Codstai free Care INC	019-04/-4223	18:24:29	I-LVM LIC MSG ON VM	For Sarah-WR Req
Joseph Duane Eves Cross Construction Inc	RVIVANCO 760-758-3639		1-LV2 Lft 2nd Msg on VM	
Greg Drakos	700-730-3039 ADAVIS	18:02:47	I-LVZ LIC ZNG MSG ON VM	requested wr
Crown Concrete Constructors IN			1-LV2 Lft 2nd Msg on VM	magnage ad tra
Melissa W Cook	ADAVIS	18:03:24	I-LVZ LIC ZNG MSG ON VM	requested wr
Melissa w Cook CECILIA'S SAFETY SERVICE INC			1-RU Not sure if received	requested wr
		. , ,		
CECILIA OSTLUND		18:05:09		
COAST LANDSCAPING INC	760-436-6804	10 06 06	1-RY Yes, received invitation	per tyler
Tyler Mason		18:06:06		requested wr
CONCRETE BUILDING SYSTEMS CONS			1-LVM Lft Msg on VM	For Ty Jones
Karen Chapman	RVIVANCO	18:21:45	1	
CTE INC			1-LVM Lft Msg on VM	For Reggie
Reggie Clark	RVIVANCO	18:19:33	4	
D&D Wildlife Habitat Restorati			1-LV2 Lft 2nd Msg on VM	requested wr
Douglas W Mckinney	ADAVIS	17:59:51		
David H. Knight DBA Knight Pow David Knight DeRollo Pipeline	619-365-8216		1-RY Yes, received invitation	
David Knight	RVIVANCO	18:18:09		
			1-LV2 Lft 2nd Msg on VM	requested wr
Jose Rolon		17:59:11		
Dick Miller INC	760-471-6842		1-LV2 Lft 2nd Msg on VM	lm requested wr
Mr. Dick Miller	ADAVIS	17:56:45		
DLG Contractors Inc	619-456-2992		1-RY Yes, received invitation	1 2
Bryan Grant		12:28:48		Rec fr:SUK/reviewing
DR. DEMO DEMOLITION SERVICES			1-LV2 Lft 2nd Msg on VM	LM
Mr. RICARDO D. MONTANEZ		16:49:35		
E&G Electrical Innovations			1-RU Not sure if received	±
MR. GERRY SAUCEDO	ADAVIS	17:39:07	2-UNB Not sure of int in bid	requested wr

*******	***** SMALL BUS	SINESS EXCHAN	IGE, INC. *************	***** PAGE: 3
*	*			*
*	* REQUI	EST FULFILLME	CNT	*
* RVIVANCO		CRIPT RESULTS		*
*******	******	*****	*******	******
TYPE: SCR TOPIC: dmo-4442	SCRIPT: RECALL DESCR	RIPTION: SUKU	JT CONST ORGANIC PRO	
COMPANY NAME / CONTACT			# RESP & DESCRIPTIO	COMMENT
Entenman Development Group INC			1-LV2 Lft 2nd Msg on VM	
Anna Chaney	ADAVIS			
Anna Chaney Frank and Son Paving INC	619-422-8322	04/14/2022	1-RY Yes, received invitation	per Jen
Alicia Vasquez	ADAVIS	17:43:10	2-UNB Not sure of int in bid	requested wr
FALCON CONSTRUCTION CO	619-840-8998	04/14/2022	2-UNB Not sure of int in bid 1-LV2 Lft 2nd Msg on VM	requested wr
FALCON CONSTRUCTION CO Mr. Ahmad Rategh	ADAVIS	17:44:16	-	-
Franco Barnaba DBA Contemporar	760-480-9738	04/15/2022	1-CNP Cannot Process	Rings/No answer
Ruth Barnaba	RVIVANCO	12:29:46		3
Good Earth Living Architecture	858-576-9300	04/14/2022	1-RY Yes, received invitation	per er
Jim Mumford	ADAVIS	17:49:12	1-RY Yes, received invitation 2-UNB Not sure of int in bid	requested wr
H+W Engineering INC	619-659-8234	04/14/2022	1-RUE Not sure if recvd; email	requestd wr
Thomas Harmon	ADAVIS	17:50:18		resent itb
HABITAT WEST INC	760-735-9378	04/14/2022	1-LV2 Lft 2nd Msg on VM	requested wr
Georgia Hurst	ADAVIS	17:50:43	, and the second	-
Georgia Hurst Hankins Construction Inc	760-789-4343	04/14/2022	1-RY Yes, received invitation	Per Debbie
Deborah Hankins	RVIVANCO	18:09:44	2-N-I Not interested	Sent Req. for WR
HSCC INC	619-631-7983	04/14/2022	1-RY Yes, received invitation	per moni
Monique Hostetler	ADAVIS	17:38:24	2-UNB Not sure of int in bid	requested wr
IN-LINE FENCE & RAILING CO INC	ADAVIS 760-789-0282	04/14/2022	1-LV2 Lft 2nd Msg on VM	requested wr
David ORTIZ	ADAVIS	17:51:21	-	-
INDUSTRIAL MAINTENANCE SUPPLY	760-929-0418	04/14/2022	1-RY Yes, received invitation	requested wr
Ms. Sarah Sloan	ADAVIS	17:51:54	2-UNB Not sure of int in bid	will send email
IO Environmental & Infrastruct	619-280-3278	04/14/2022	1-RYE Yes, rcvd ITB/Emaild Res	o Per Den
Dennis Iverson	ADAVIS	17:45:54	2-UNB Not sure of int in bid	requested wr
J&E SoCAL Supply Inc	858-451-4661	04/14/2022	1-LV2 Lft 2nd Msg on VM	lm requested we
John-Paul Mitchell	ADAVIS	17:43:46	-	-
Jon Kay dba Kay Construction C	619-654-9075	04/14/2022	1-RY Yes, received invitation	
Jon Kay	ADAVIS	17:40:06	2-YI Yes/interested	requested wr
Kevcon Inc	760-432-0307	04/14/2022	1-RUE Not sure if recvd; email	resent itb
Kevin Kutina	ADAVIS	17:17:09	2-UNB Not sure of int in bid	requested wr
Kirk Paving Inc	619-938-9958	04/14/2022	1-LV2 Lft 2nd Msg on VM	requested wr
	ADAVIS	17:25:36	2	÷
KENDRICK EXCAVATING INC			1-RUE Not sure if recvd; email	resent itb
Audrey Kendrick		17:27:38	The state of the s	requested wr
-	-			±

**************************************	****** SMALL BU	SINESS EXCHAN	IGE, INC. *************	***** PAGE:
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*	~	EST FULFILLME		
' RVIVANCO	S	CRIPT RESULTS		
TYPE: SCR TOPIC: dmo-4442				
COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	
Low Voltage Fire INC DBA Low V	760-598-4110	04/14/2022	1-LV2 Lft 2nd Msg on VM	requested wr
Michael Arguijo	ADAVIS	17:34:25		
C Tree Service Inc	619-677-5777	04/14/2022	1-RU Not sure if received	per phoebe
Larry Coalson	ADAVIS	17:35:22	2-UNB Not sure of int in bid 1-LV2 Lft 2nd Msg on VM	requested wr frm lar
Carlin Systems INC dba MC Sy	619-270-6206	04/14/2022	1-LV2 Lft 2nd Msg on VM	requested wr
Michael Carlin	ADAVIS	17:35:47		
-Rae Engineering INC	619-445-4496	04/14/2022	1-LV2 Lft 2nd Msg on VM	LM requested WR
Joel constance	ADAVIS	17:24:58		
akelele Systems Landscape & M	760-208-8749		1-RU Not sure if received	requested wr
Pene Cardenas		17:37:30	2-UNB Not sure of int in bid	will send email
axim Construction Co Inc	619-990-4245	04/14/2022	1-RUE Not sure if recvd; email	Per Derek
Derek Franken	RVIVANCO	18:01:52	2-NU Not interested; not union	n Sent Req. for WR
erino Landscape Inc	619-348-9932	04/14/2022	1-RY Yes, received invitation	
Chris Merino	ADAVIS	17:33:54		requested wr
ontano Pipeline Inc	619-838-6848	04/14/2022	1-RU Not sure if received	Per Dan wl chk email
Dan Scheider	ADAVIS	17:36:51	2-UNB Not sure of int in bid	requested wr
ONTGOMERY CONSTRUCTION SERVIC	619-578-2538	04/14/2022	2-UNB Not sure of int in bid 1-LV2 Lft 2nd Msg on VM	requested wr
CLIFFORD K MONTGOMERY		17:32:10	-	-
OOR ELECTRIC INC	619-250-0380	04/14/2022	1-LV2 Lft 2nd Msg on VM	rquested wr
DWAYNE HENRY	ADAVIS	17:28:09	3	-
EW CENTURY CONSTRUCTION INC	619-390-3300	04/14/2022	1-RU Not sure if received	per recep
Lee P Shellberg Ii	ADAVIS	17:24:18		requested wr frm lee
noenix Renewable Services LL	559-225-5777	04/14/2022	1-LV2 Lft 2nd Msg on VM	Requested WR
Hassan Yarpezeshkan	ADAVIS	12:12:15		<u>.</u>
AYCO SPECIALTIES INC	619-422-9204	04/14/2022	1-RU Not sure if received	per Reb
Ms. Rebecca Llewellyn	ADAVIS	16:57:27	2-UNB Not sure of int in bid	requested WR
PERIN CORP	760-305-7248	04/14/2022	1-LV2 Lft 2nd Msg on VM	Requested WR
Craig Barry	ADAVIS	12:12:51		- 1
ecision Striping Inc	619-432-1154		1-DIS # Disconnect; no new #	#Not In Service
	RVIVANCO	12:30:53	,	
uality Construction & Enginee		04/14/2022	1-RUE Not sure if recvd; email	Per Mo resent itb
Mohammad Qahoush	ADAVIS	17:06:47	2-UNB Not sure of int in bid	requested WR
SB CONSTRUCTION	888-600-1748	04/14/2022	2-UNB Not sure of int in bid 1-LV2 Lft 2nd Msg on VM	requested wr
JD CONDINOCITON		17.14.50		104460664 #1

17:14:52

ADAVIS

Vanessa Valdez

*********	****** SMALL BUS	SINESS EXCHAN	NGE, INC.	*****	***** PAGE:	5
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* RVIVANCO *		CRIPT RESULTS		*		*

TYPE: SCR TOPIC: dmo-4442 SCRI	PT: RECALL DESCR	RIPTION: SUKU	JT CONST O	RGANIC PRO		
TYPE: SCR TOPIC: dmo-4442 SCRI	PHONE / CALLER	CALL DT/TM	# RESP &	DESCRIPTIO	COMMENT	
Reilly Construction Management	760-310-9816	04/14/2022	1-LV2 Lf	t 2nd Msg on VM	LM requested WR	
Scott Reilly	ADAVIS	17:12:21				
Scott Reilly REC Trucking INC dba AR Concre Rafael Teran	619-946-4638	04/14/2022	1-LV2 Lf	t 2nd Msg on VM	LM	
Rafael Teran	ADAVIS	12:11:46			_	
Yvette Yanez	ADAVIS	17:00:54				
San Diego Native Landscapes In	619-857-4777	04/14/2022	1-LV2 Lf	t 2nd Msg on VM	LM requested wr	
Yvette Yanez San Diego Native Landscapes In JOSE SANTANA Sattler Solar INC	ADAVIS	16:53:54				
Sattler Solar INC	619-880-0445	04/14/2022	1-LV2 Lf	t 2nd Msg on VM	requested WR	
Erik Sattler	ADAVIS	12:19:39				
Siege Electric INC	619-631-7471	04/14/2022	1-RUE No	t sure if recvd; email	resent itb	
Erik Sattler Siege Electric INC Joshua Middleton	ADAVIS	12:14:55	2-UNB No	t sure of int in bid	requested wr	
SATURN ELECTRIC INC	858-271-4100	04/14/2022	1-I.V2 I.f	t 2nd Msg on VM	LM	
Mr. Ronald Dudek	ADAVIS	15:04:47		t sure if received t sure of int in bid		
SJ Electric	619-328-1305	04/14/2022	1-RU No	t sure if received	Requested WR	
Samuel Judd	ADAVIS	12:10:38	2-UNB No	t sure of int in bid		
SOUTHWEST TRAFFIC SIGNAL SERVI	619-442-3343	04/14/2022	I-LV2 Li	t 2nd Msg on VM	WR Requested	
James Cress	ADAVIS	11:45:08		t 2nd Msg on VM		
James Cress SPECS CIVIL SOLUTIONS INC AMANDA ERNST	858-790-1445	04/14/2022	1-LV2 Lf	t 2nd Msg on VM	LM requested WR	
AMANDA ERNST	ADAVIS	11:50:28				
SUBSURFACE SURVEYS & ASSOCIATE	760-476-0492	04/14/2022	1-I ₁ V2 I ₁ f	t. 2nd Msg on VM	LM Requested WR	
Mr. George Herman	ADAVIS	11:53:47				
Terra Group Landscape LLC	619-708-5971	04/14/2022	1-RY Ye	s, received invitation	will send WR	
Mr. George Herman Terra Group Landscape LLC Abner Dominguez	ADAVIS	11:56:15	2-UNB No	t sure of int in bidTI	ERRA DATA INC	
760-749-2247 04/14/2022 1-LV2 Lft Elizabeth Kellogg	2nd Msg on VM	LM Reque	ested WR			
Elizabeth Kellogg	ADAVIS	11:56:48				
Elizabeth Kellogg TRANSTAR PIPELINE INC Cynthia S Brito	858-453-0744	04/14/2022	1-LV2 Lf	t 2nd Msg on VM	LM Requested WR	
Cynthia S Brito	ADAVIS	11:57:33		3	-	
UNITED GENERAL CONSTRUCTION IN	623-810-0028	04/14/2022	1-LV2 Lf	t 2nd Msg on VM	LM WR Requested	
Cristen Mason	ADAVIS	11:46:01		_	_	
Valley CM Inc DBA Valley Const Galina Mochel Western State Builders INC	858-444-5979	04/14/2022	1-RY Ye	s, received invitation	Per Galina	
Galina Mochel	ADAVIS	12:00:34	2-N-I No	t interested	will send WR	
Western State Builders INC	760-270-8639	04/14/2022	1-LV2 T.f	t 2nd Msg on VM	LM	
Julian Moen	ADAVIS	12:01:00		- 2 -		
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********	***** SMALL BU	SINESS EXCHANG	E, INC. *************	****** PAGE: 5
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*	* REQU	EST FULFILLMEN	T	*
* RVIVANCO	* S	CRIPT RESULTS	*	*
*******	******	*****	******	*****
TYPE: SCR TOPIC: dmo-4442	SCRIPT: RECALL DESC	RIPTION: SUKUT	CONST ORGANIC PRO	
COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	COMMENT
Westturf Landscape Management	760-650-3120	04/14/2022	1-RUE Not sure if recvd; email	resent itb
Sergio Graham			2-UNB Not sure of int in bid	
WENDELL STEMLEY	619-527-1668	04/14/2022	1-LV2 Lft 2nd Msg on VM	requested WR
WENDELL STEMLEY	ADAVIS	16:46:35		
WESTERN GARDENS LANDSCAPING IN	760-720-1459	04/14/2022	1-LV2 Lft 2nd Msg on VM	LM Requested WR
Greg Vasilieff				
WG CONSTRUCTION INC			1-RU Not sure if received	WR Requested
William Gwyn	ADAVIS	11:47:03	2-UNB Not sure of int in bid	
WHITSON CONTRACTING & MANAGEME	858-673-0966	04/14/2022	1-LV2 Lft 2nd Msg on VM	WR Requested
Mitchel Whitson	ADAVIS	11:45:31		
Xpedient Communication INC	858-964-5333	04/14/2022	1-RY Yes, received invitation	Per Rebecca
Doug Catania	ADAVIS	11:44:09	2-UNB Not sure of int in bid	reviewing wil snd WR
YBS Construction Engineering	619-271-6122	04/15/2022	1-DIS # Disconnect; no new #	#Not In Service
Rodolfo Sanchez	RVIVANCO	12:32:09		
ZASUETA CONTRACTING INC	619-589-0609	04/14/2022	1-LVM Lft Msg on VM	WR Req. From Edward
Mr. Edward Zasueta		17:51:55		
3Sixty Innovation inc	858-304-1093	04/14/2022	1-RUE Not sure if recvd; email	
Mohamad Muhsin 99 RECORDS LISTED	ADAVIS	11:42:21	2-UNB Not sure of int in bid	requested WR

B4. Recall 2 Telephone Log

************	* SMALL BU	SINESS EXCHAI	NGE, INC.	* *
*	* REOH	EST FULFILLME	TMT	*
* RVIVANCO	*	CRIPT RESULTS		*
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TYPE: SCR TOPIC: dmo-4442	SCRIPT: RECLL2 DESC	RIPTION: SUKI	JT CONST ORGANIC PRO	
COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	COMMENT
Accent Engineering And Constru			1-LV3 Lft 3rd Msg on VM	
Rodney L Thompson	RVIVANCO	15:45:03	-	
Rodney L Thompson Alvarez and Shaw Inc	619-454-2484	04/25/2022	1-RY Yes, received invitation	Per Dave
CHASE ALVAREZ	RVIVANCO	16:07:19	2-N B No, we will not bid	
Ambrit Services Inc	619-582-9600	04/25/2022	1-RY Yes, received invitation	Per Chris
Chris Hyams	RVIVANCO	16:09:48	2-NRE Remove from Bidders List	
Apex Constructors	760-471-6842	04/25/2022	2-NRE Remove from Bidders List 1-LV3 Lft 3rd Msg on VM	For John Req WR
Mr. Dick Miller	RVIVANCO	16:12:13		
AB HASHMI INC	760-672-8059	04/25/2022	1-RY Yes, received invitation	Per Ahmad
Mr. Ahmad Hashmi	RVIVANCO	16:14:18	2-UNB Not sure of int in bid	still not sure
ABBA Project Management	203-940-0880	04/25/2022	1-LV3 Lft 3rd Msg on VM	Req'd WR in msg
Alexander Buggy	RVIVANCO	16:15:21		
ACCURATE ASPHALT & CONCRETE IN	619-303-1829	04/25/2022	1-LV3 Lft 3rd Msg on VM	Req'd WR in msg
Deacon Markey	RVIVANCO	16:23:52	-	-
ACME SAFETY & SUPPLY CORP	619-299-5100	04/25/2022	1-RY Yes, received invitation	LM For Richard
Richard Benar	RVTVANCO	16:33:58	2-UNB Not sure of int in bid	
AXL Group INC	760-470-9550	04/25/2022	1-RY Yes, received invitation	
John Rillman Bartholo	RVIVANCO	11:47:21	2-N B No, we will not bid	Req For WR sent 4/25
Blue Swell Construction Manage	951-315-8057	04/26/2022	$1-R\overline{Y}$ Yes, received invitation	Spoke to Laurie
Laurie Vasquez		11:30:58	2-N B No, we will not bid	RequestedWrittenResp
BC3 Equipment Inc	619-312-2663	04/26/2022	2-N_B No, we will not bid 1-RY Yes, received invitation	Spoke To Shauna
BC3 Equipment Inc Benny Carroll Jr	TARELLAN	11:34:18	2-UNB Not sure of int in bid	RequestedWrittenResp
BERNAL BUILDERS INC	619-540-9618		1-LV3 Lft 3rd Msg on VM	Req WR in msg
MANUEL BERNAL	RVIVANCO	16:38:11		
BLACK IPO	619-527-1668	04/26/2022	1-LV3 Lft 3rd Msg on VM	RequestedWrittenResp
WENDELL STEMLEY	TARELLAN	11:37:15	-	-
BLACK SAGE ENVIRONMENTAL INC	619-876-0745	04/26/2022	1-LV3 Lft 3rd Msg on VM	RequestedWrittenResp
Jason Allen	TARELLAN	11:39:13	-	-
BONITA PIPELINE INC	619-434-9801	04/25/2022	1-LV3 Lft 3rd Msg on VM	Req WR in msg
Mr. Francisco MARQUEZ	RVIVANCO	15:47:39	-	-
BRINO BUILDERS INC	619-227-9205	04/25/2022	1-RY Yes, received invitation	LM For Enrique
ENRIQUE VELEZ	RVIVANCO	16:33:52	2-UNB Not sure of int in bid	-
BUESCHER ELECTRIC INC	858-748-8478	04/25/2022	1-LVM Lft Msg on VM	For Anthony
7 th D		16.20.14		-

16:38:14

RVIVANCO

Anthony Buescher

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TYPE: SCR	*	*			*
TYPE: SCR	*	~			*
TYPE: SCR TOPIC: dmo-4442 SCRIPT: RECLI2 DESCRIPTION: SUKUT CONST ORGANIC PRO COMMENT		i.			*
COMMENT NAME					******
Chris Marquart DBA Code 3 Medi 760-621-3930 04/25/2022 1-LVZ Lft 2nd Msg on VM 858-722-7164	TYPE: SCR TOPIC: dmo-4442 SC COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	COMMENT
Pedro (pete) Navarro RVIVANCO 17:23:58 2-NW Out of my scope of work LM Req WR from Pedro (pete) Navarro RVIVANCO 17:23:58 2-NW Out of my scope of work LM Req WR from Pedro (pete) Navarro RVIVANCO 17:29:15 1-LV3 Lft 3rd Msg on VM For Robert-Req WR RVIVANCO 17:29:15 1-LV3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-LV3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-LV3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-LV3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-LV3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-LV3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-LV3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-LV3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-LV3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-LV3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-LV3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-LV3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-LV3 Lft 3rd Msg on VM Req'd WR in msg 17:34:29 1-LV3 Lft 3rd Msg on VM Req'd WR in msg 17:34:29 1-LV3 Lft 3rd Msg on VM Req'd WR in msg 17:34:34 1-LV4 Lft 3rd Msg on VM Req'd WR in msg 17:34:34 1-LV4 Lft 3rd Msg on VM 17:34:34 1-LV4 Lft Msg on VM 17:34:34 1-LV4					
Pedro (pete) Navarro RVIVANCO 17:23:58 2-NW Out of my scope of work LM Req WR from Pedro (pete) Navarro RVIVANCO 17:23:58 2-NW Out of my scope of work LM Req WR from Pedro (pete) Navarro RVIVANCO 17:29:15 1-1V3 Lft 3rd Msg on VM For Robert-Req WR RVIVANCO 17:29:15 1-1V3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-1V3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-1V3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-1V3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg	Chris Marquart DBA Code 3 Medi	760-621-3930	04/25/2022	1-LV2 Lft 2nd Msg on VM	Req WR in msg
Pedro (pete) Navarro RVIVANCO 17:23:58 2-NW Out of my scope of work LM Req WR from Pedro (pete) Navarro RVIVANCO 17:23:58 2-NW Out of my scope of work LM Req WR from Pedro (pete) Navarro RVIVANCO 17:29:15 1-1V3 Lft 3rd Msg on VM For Robert-Req WR RVIVANCO 17:29:15 1-1V3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-1V3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-1V3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-1V3 Lft 3rd Msg on VM For Sarah WR req'd 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req'd WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req WR in msg 17:32:19 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg on VM Req WR in msg 1-1V3 Lft 3rd Msg	Chris Marquart	RVIVANCO	17:22:47Cie	elo Azul Inc DBA Cielo Azul	858-722-7164
Coastal Tree Care INC 619-647-4225 04/25/2022 1-UV2 Lft 2nd Msg on VM For Sarah WR req'd Joseph Duane Eves RVIVANCO 17:32:19	04/25/2022 1-RY Yes, received invit	tation			
Coastal Tree Care INC 619-647-4225 04/25/2022 1-UV2 Lft 2nd Msg on VM For Sarah WR req'd Joseph Duane Eves RVIVANCO 17:32:19	Pedro (pete) Navarro	RVIVANCO	17:23:58	2-NW Out of my scope of work	LM Req WR from Pedro
Coastal Tree Care INC 619-647-4225 04/25/2022 1-UV2 Lft 2nd Msg on VM For Sarah WR req'd Joseph Duane Eves RVIVANCO 17:32:19	Cityscape Services LLC	858-367-0446	04/25/2022	1-LV3 Lft 3rd Msg on VM	For Robert-Req WR
Joseph Duane Eves		RVIVANCO	17:29:15		
Cross Construction Inc				1-LV2 Lft 2nd Msg on VM	For Sarah WR req'd
Cross Construction Inc	Joseph Duane Eves	RVIVANCO			
Crown Concrete Constructors IN Melissa W Cook	Cross Construction Inc	760-758-3639		1-LV3 Lft 3rd Msg on VM	
Melissa W Cook RVIVANCO 16:40:16 CECILIA'S SAFETY SERVICE INC 858-793-4465 04/26/2022 1-LV2 Lft 2nd Msg on VM Req'd WR in msg CCECILIA OSTLUND RVIVANCO 15:4:26 - COAST LANDSCAPING INC 760-436-6804 04/26/2022 1-LVM Lft Msg on VM For Tyler Tyler Mason RVIVANCO 16:53:10 For Tyler CONCRETE BUILDING SYSTEMS CONS 760-731-3224 04/26/2022 1-LV2 Lft 2nd Msg on VM For Ty Karen Chapman RVIVANCO 16:37:57 For Ty For Ty CTE INC 619-733-6791 04/26/2022 1-RY Yes, received invitation Per Reggie Reggie Clark RVIVANCO 16:40:06 2-N-I Not interested No Subwrk-Req WR D&D Wildlife Habitat Restorati 619-667-3707 04/25/2022 1-LV3 Lft 3rd Msg on VM Req WR in msg David K. Right DBA Knight Pow 619-365-8216 04/25/2022 1-LVM Lft Msg on VM Req WR in msg DLG Contractors Inc 619-366-2992 04/25/2022 1-LV3 Lft 3rd Msg on VM For Bryam Bryan Grant <td></td> <td></td> <td></td> <td></td> <td></td>					
CECILIA'S SAFETY SERVICE INC S58-793-4465		619-820-4302	04/26/2022	1-LV3 Lft 3rd Msg on VM	Req'd WR in msg
CECILIA'S SAFETY SERVICE INC S58-793-4465		RVIVANCO	16:40:16		
COAST LANDSCAPING INC Tyler Mason	CECILIA'S SAFETY SERVICE INC	858-793-4465	04/26/2022	1-LV2 Lft 2nd Msg on VM	Req'd WR in msg
Tyler Mason	CECILIA OSTLUND	RVIVANCO	15:54:26		
CONCRETE BUILDING SYSTEMS CONS	COAST LANDSCAPING INC	760-436-6804	04/26/2022	1-LVM Lft Msg on VM	For Tyler
Raren Chapman RVIVANCO 16:37:57 04/26/2022 1-RY Yes, received invitation Per Reggie Reggie Clark RVIVANCO 16:40:06 2-N-I Not interested No Subwrk-Req WR No	Tyler Mason	RVIVANCO	16:53:10		
CTE INC Reggie Clark RVIVANCO Reggie Clark RVIVANCO RVIVA	CONCRETE BUILDING SYSTEMS CONS	760-731-3224	04/26/2022	1-LV2 Lft 2nd Msg on VM	For Ty
Reggie Clark RVIVANCO 16:40:06 2-N-I Not interested No Subwrk-Req WR D&D Wildlife Habitat Restorati 619-667-3707 04/25/2022 1-LV3 Lft 3rd Msg on VM Req WR in msg Douglas W McKinney RVIVANCO 15:47:44	Karen Chapman	RVIVANCO	16:37:57		
Reggie Clark RVIVANCO 16:40:06 2-N-I Not interested No Subwrk-Req WR D&D Wildlife Habitat Restorati 619-667-3707 04/25/2022 1-LV3 Lft 3rd Msg on VM Req WR in msg Douglas W McKinney RVIVANCO 15:47:44	CTE INC	619-733-6791	04/26/2022	1-RY Yes, received invitation	Per Reggie
Douglas W McKinney	Reggie Clark	RVIVANCO	16:40:06	2-N-I Not interested	No Subwrk-Req WR
Douglas W McKinney	D&D Wildlife Habitat Restorati	619-667-3707	04/25/2022	1-LV3 Lft 3rd Msg on VM	Req WR in msg
David Knight RVIVANCO 11:35:34 DeRollo Pipeline 760-623-8725 04/25/2022 1-LV3 Lft 3rd Msg on VM Req WR in msg Jose Rolon RVIVANCO 15:51:33 DLG Contractors Inc 619-456-2992 04/25/2022 1-LVM Lft Msg on VM For Bryam RVIVANCO 16:33:48 DR. DEMO DEMOLITION SERVICES 619-420-3366 04/25/2022 1-LV3 Lft 3rd Msg on VM For Ric Mr. RICARDO D. MONTANEZ RVIVANCO 16:38:18 E&G Electrical Innovations 619-750-3206 04/26/2022 1-RUE Not sure if recvd; email Resent to Gerry MR. GERRY SAUCEDO RVIVANCO 16:52:13 2-UNB Not sure of int in bid Entenman Development Group INC 619-317-2868 04/26/2022 1-LV3 Lft 3rd Msg on VM Req'd WR in msg	Douglas W McKinney				
Jose Rolon RVIVANCO 15:51:33 DLG Contractors Inc Bryan Grant RVIVANCO 16:33:48 DR. DEMO DEMOLITION SERVICES RVIVANCO Mr. RICARDO D. MONTANEZ RVIVANCO 16:38:18 E&G Electrical Innovations MR. GERRY SAUCEDO RVIVANCO RV	David H. Knight DBA Knight Pow	619-365-8216	04/25/2022	1-LVM Lft Msg on VM	
Jose Rolon	David Knight	RVIVANCO	11:35:34		
Jose Rolon RVIVANCO 15:51:33 DLG Contractors Inc Bryan Grant RVIVANCO 16:33:48 DR. DEMO DEMOLITION SERVICES RVIVANCO Mr. RICARDO D. MONTANEZ RVIVANCO 16:38:18 E&G Electrical Innovations MR. GERRY SAUCEDO RVIVANCO RV	DeRollo Pipeline	760-623-8725	04/25/2022	1-LV3 Lft 3rd Msg on VM	Reg WR in msg
Bryan Grant RVIVANCO 16:33:48 DR. DEMO DEMOLITION SERVICES 619-420-3366 04/25/2022 1-LV3 Lft 3rd Msg on VM For Ric Mr. RICARDO D. MONTANEZ RVIVANCO 16:38:18 E&G Electrical Innovations 619-750-3206 04/26/2022 1-RUE Not sure if recvd; email Resent to Gerry MR. GERRY SAUCEDO RVIVANCO 16:52:13 2-UNB Not sure of int in bid Entenman Development Group INC 619-317-2868 04/26/2022 1-LV3 Lft 3rd Msg on VM Req'd WR in msg	Jose Rolon	RVIVANCO		-	
Bryan Grant RVIVANCO 16:33:48 DR. DEMO DEMOLITION SERVICES 619-420-3366 04/25/2022 1-LV3 Lft 3rd Msg on VM For Ric Mr. RICARDO D. MONTANEZ RVIVANCO 16:38:18 E&G Electrical Innovations 619-750-3206 04/26/2022 1-RUE Not sure if recvd; email Resent to Gerry MR. GERRY SAUCEDO RVIVANCO 16:52:13 2-UNB Not sure of int in bid Entenman Development Group INC 619-317-2868 04/26/2022 1-LV3 Lft 3rd Msg on VM Req'd WR in msg	DLG Contractors Inc	619-456-2992	04/25/2022	1-LVM Lft Msq on VM	For Bryam
Mr. RICARDO D. MONTANEZ RVIVANCO 16:38:18 E&G Electrical Innovations 619-750-3206 04/26/2022 1-RUE Not sure if recvd; email Resent to Gerry MR. GERRY SAUCEDO RVIVANCO 16:52:13 2-UNB Not sure of int in bid Entenman Development Group INC 619-317-2868 04/26/2022 1-LV3 Lft 3rd Msg on VM Req'd WR in msg	Bryan Grant		16:33:48	-	_
Mr. RICARDO D. MONTANEZ RVIVANCO 16:38:18 E&G Electrical Innovations 619-750-3206 04/26/2022 1-RUE Not sure if recvd; email Resent to Gerry MR. GERRY SAUCEDO RVIVANCO 16:52:13 2-UNB Not sure of int in bid Entenman Development Group INC 619-317-2868 04/26/2022 1-LV3 Lft 3rd Msg on VM Req'd WR in msg	DR. DEMO DEMOLITION SERVICES	619-420-3366	04/25/2022	1-LV3 Lft 3rd Msg on VM	For Ric
MR. GERRY SAUCEDO RVIVANCO 16:52:13 2-UNB Not sure of int in bid Entenman Development Group INC 619-317-2868 04/26/2022 1-LV3 Lft 3rd Msg on VM Req'd WR in msg				5	
MR. GERRY SAUCEDO RVIVANCO 16:52:13 2-UNB Not sure of int in bid Entenman Development Group INC 619-317-2868 04/26/2022 1-LV3 Lft 3rd Msg on VM Req'd WR in msg				1-RUE Not sure if recvd; email	Resent to Gerry
		RVIVANCO	16:52:13	2-UNB Not sure of int in bid	<u>-</u>
		619-317-2868	04/26/2022	1-LV3 Lft 3rd Msg on VM	Reg'd WR in msg
	Anna Chaney			3	-

******	************ SMALL BUS	SINESS EXCHAN	GE, INC. ************	***** PAGE: 3
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* RVIVANCO		CRIPT RESULTS		*
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TYPE: SCR TOPIC: dmo-4442				
COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	COMMENT
Frank and Son Paving INC	619-422-8322	04/26/2022	1-RY Yes, received invitation	
Alicia Vasquez			2-UNB Not sure of int in bid	
FALCON CONSTRUCTION CO	619-840-8998	04/26/2022	1-LV3 Lft 3rd Msg on VM	Req WR in msg
Mr. Ahmad Rategh	RVIVANCO	17:11:09		
Good Earth Living Architecture			1-LVM Lft Msg on VM	For Jim-Req'd WR
Jim Mumford	RVIVANCO	17:12:04		
H+W Engineering INC	619-659-8234	04/26/2022	1-LVM Lft Msg on VM	For Bryan-Req'd WR
Thomas Harmon	RVIVANCO	17:10:51		
HABITAT WEST INC		04/26/2022	1-LV3 Lft 3rd Msg on VM	Req'd WR
Georgia Hurst	RVIVANCO	17:19:52		
Hankins Construction Inc	760-789-4343	04/25/2022	1-LVM Lft Msg on VM	
Deborah Hankins	RVIVANCO	11:38:13		
HSCC INC	619-339-7063	04/26/2022	1-LVM Lft Msg on VM	For MoniReq wr
Monique Hostetler	RVIVANCO	17:09:47		
IN-LINE FENCE & RAILING CO INC	760-789-0282	04/26/2022	1-LV3 Lft 3rd Msg on VM	
David ORTIZ	RVIVANCO	15:44:10		
INDUSTRIAL MAINTENANCE SUPPLY	760-929-0418	04/25/2022	1-RY Yes, received invitation	
Ms. Sarah Sloan	RVIVANCO	16:33:45	2-UNB Not sure of int in bid	Clark will reply
IO Environmental & Infrastruct	619-280-3278	04/25/2022	1-LVM Lft Msg on VM	For Dennis
Dennis Iverson	RVIVANCO	16:38:23		
J&E SoCal Supply	858-451-4661	04/25/2022	1-RUE Not sure if recvd; email	Resent to John-Paul
John-Paul Mitchell	RVIVANCO	16:56:19	2-UNB Not sure of int in bid	
Jon Kay dba Kay Construction C	619-654-9099	04/26/2022	1-RY Yes, received invitation	Spoke to Amy
Jon Kay	TARELLAN	13:51:49	2-N B No, we will not bid	RequestedWrittenResp
Kevcon Inc	760-432-0307	04/26/2022	1-LV2 Lft 2nd Msg on VM	For Kevin - Reg'd WR
Kevin Kutina	RVIVANCO	17:13:02	-	-
Kirk Paving Inc	619-938-9958	04/26/2022	1-LV3 Lft 3rd Msg on VM	Req WR in msq
	RVIVANCO	17:06:48	-	
KENDRICK EXCAVATING INC	619-922-9185	04/26/2022	1-LV2 Lft 2nd Msg on VM	Req'd WR in msg
Audrey Kendrick	RVIVANCO	17:16:13	-	-
LC Tree Service Inc	619-677-5777	04/26/2022	1-RUE Not sure if recvd; email	Sent to Larry
Larry Coalson	RVIVANCO	17:19:30	2-UNB Not sure of int in bid	Reg'd WR
LOW VOLTAGE FIRE INC			1-LV3 Lft 3rd Msg on VM	Reg'd WR
Michael Arguijo		17:21:52	 	÷

**********	****** SMALL BU	SINESS EXCHAN	NGE, INC. *************	***** PAGE: 4
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TYPE: SCR TOPIC: dmo-4442 SCR				
COMPANY NAME / CONTACT			# RESP & DESCRIPTIO	
M Carlin Systems INC dba MC Sy Michael Carlin	619-270-6206	04/26/2022	1-LV3 Lft 3rd Msg on VM	Req'd WR
Michael Carlin	RVIVANCO	17:26:15	4	
M-Rae Engineering Inc			1-LV3 Lft 3rd Msg on VM	Req'd WR
Joel constance	RVIVANCO	17:25:53		
Makelele Systems Landscape and Pepe Cardenas	760-208-8749	04/26/2022	1-RUE Not sure if recvd; email	Resent ITB-Req'd WR
Pepe Cardenas	RVIVANCO	17:25:49	2-UNB Not sure of int in bidMa	xim Construction Co Inc
619-990-4245 04/25/2022 1-LVM Lf		44 00 50		
Derek Franken	RVIVANCO	11:32:50	1	
MERINO LANDSCAPE INC	619-348-9932	04/25/2022	1-LVM Lft Msg on VM	
Chris Merino	1(0 1 0711000	11.40.10		. D D
Montano Pipeline Inc	619-380-4815	04/26/2022	1-RYE Yes, rcvd ITB/Emaild Res	p Per Dan
Dan Scheider	RVIVANCO	17:04:32	2-NRR No/Not Bidding Resp Rcvd	Replied 4/26
MONTGOMERY CONSTRUCTION SERVIC	619-578-2538	04/25/2022	1-LV3 Lft 3rd Msg on VM	
CLIFFORD K MONTGOMERY		15:13:08	1 7772 7 61 2 1 14	
MOOR ELECTRIC INC			1-LV3 Lft 3rd Msg on VM	Req WR in msg
DWAYNE HENRY	RVIVANCO	15:47:41	1	
NEW CENTURY CONSTRUCTION INC			1-LVM Lft Msg on VM	For Lee - Req WR
Lee P Shellberg Ii	RVIVANCO	16:34:02	1 57 77	T
Ocean Paving & Sealing			1-RY Yes, received invitation	
Christophe Sparks	RVIVANCO	16:46:07	2-UNB Not sure of int in bid 1-LV3 Lft 3rd Msg on VM	Chris will reply
Phoenix Renewable Services LL	559-225-5///	04/25/2022	I-LV3 Lit 3rd Msg on VM	Req WR in msg
Hassan Yarpezeshkan		17:00:29	1 TT72 TC1 2 d March 1704	1 6
PAYCO SPECIALTIES INC			1-LV3 Lft 3rd Msg on VM	lm for reb rqstd wr
Ms. Rebecca Llewellyn		14:44:25	1 272 27 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
PIPERIN CORP			1-RUE Not sure if recvd; email	Resent to Craig
Craig Barry	RVIVANCO	17:10:11		December 157 of the December 1
Quality Construction & Enginee			1-LV3 Lft 3rd Msg on VM	RequestedWrittenResp
Mohammad Qahoush	TARELLAN	13:42:33	1 737 - 37	Carla I. Baland
QSB CONSTRUCTION	008-000-1/48	13:40:22	1-RY Yes, received invitation 2-UNB Not sure of int in bid	-
Vanessa Valdez				RequestedWrittenResp
Reilly Construction Management			1-LV3 Lft 3rd Msg on VM	LM REQUESTED WR
Scott Reilly	ADAVIS	13:10:40	1-LV3 Lft 3rd Msg on VM	TM
REC Trucking INC dba AR Concre Rafael Teran	019-940-4038	13:37:10	I-LVS LET SEG MSG ON VM	LM
kaiaei Teran	TARELLAN	13:3/:10		

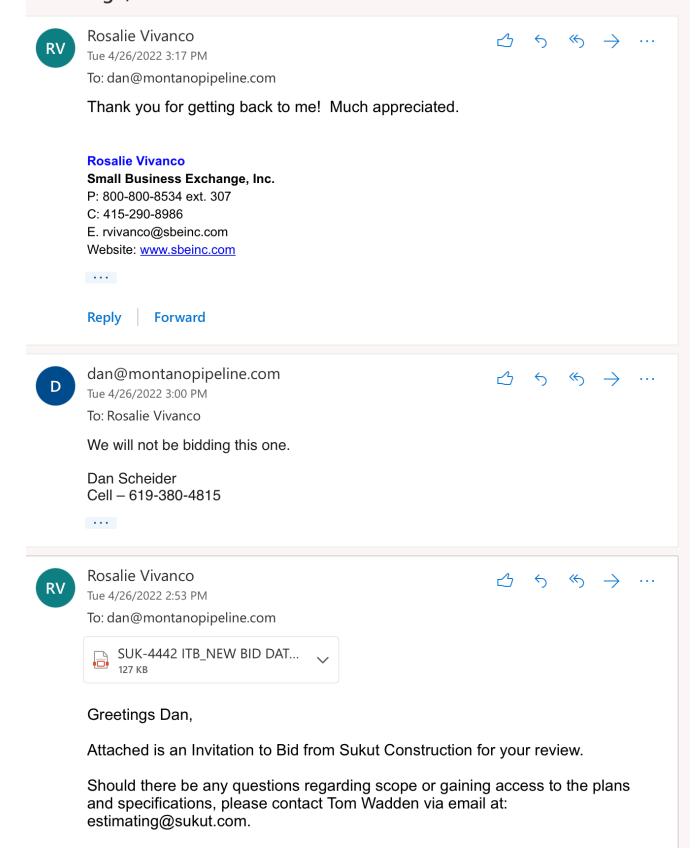
*****	************ SMALL BU	JSINESS EXCHAN	GE, INC. ************	***** PAGE: 5
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*	* REQU	JEST FULFILLME	T	*
* RVIVANCO	*	SCRIPT RESULTS	*	*
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TYPE: SCR TOPIC: dmo-4442	SCRIPT: RECLL2 DESC	CRIPTION: SUKU	I CONST ORGANIC PRO	
COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	COMMENT
RP General Construction Inc	760-294-1669	04/26/2022	1-RY Yes, received invitation	Spoke to Mr. Ponce
Yvette Yanez	TARELLAN	13:34:50	2-N B No, we will not bid	RequestedWrittenResp
San Diego Native Landscapes In	619-857-4777	04/25/2022	1-LV3 Lft 3rd Msg on VM	lm requested WR
JOSE SANTANA	ADAVIS	14:47:44	-	-
Sattler Solar INC	619-880-0445	04/25/2022	1-LV3 Lft 3rd Msg on VM	Req WR in msg
Erik Sattler	RVIVANCO	15:52:03	-	-
Siege Electric INC	619-631-7471	04/26/2022	1-RU Not sure if received	Spoke to Kristy
Joshua Middleton	TARELLAN	11:45:48	2-UNB Not sure of int in bid	RequestedWrittenResp
SATURN ELECTRIC INC	858-271-4100	04/26/2022	1-LV3 Lft 3rd Msg on VM	LM
Mr. Ronald Dudek	TARELLAN	11:49:09		
SJ Electric	619-328-1305	04/26/2022	1-LM3 Lft 3rd msg	Left message
Samuel Judd	TARELLAN	11:52:34		
SOUTHWEST TRAFFIC SIGNAL SERVI	619-442-3343	04/26/2022	1-REM Yes recvd; but re-email	Spoke to Alexis
James Cress	TARELLAN	12:19:06	2-UNB Not sure of int in bid	RequestedWrittenResp
SPECS CIVIL SOLUTIONS INC	858-790-1445	04/26/2022	1-LV3 Lft 3rd Msg on VM	RequestedWrittenResp
AMANDA ERNST	TARELLAN	12:20:59		
SUBSURFACE SURVEYS & ASSOCIATE	760-476-0492	04/26/2022	1-REM Yes recvd; but re-email	spoke to George
Mr. George Herman	TARELLAN	12:34:57	2-N B No, we will not bid	requestedWrittenResp
Terra Group Landscape L.L.C.	619-708-5971	04/26/2022	$1-R\overline{Y}$ Yes, received invitation	Spoke to Abner
Abner Dominguez	TARELLAN	12:38:42	2-UNB Not sure of int in bid	RequestedWrittenResp
TIERRA DATA INC	760-749-2247	04/26/2022	1-RN Did not receive	Spoke to Chelsea
Elizabeth Kellogg	TARELLAN	12:49:07	2-UNB Not sure of int in bid	RequestedWrittenResp
TRANSTAR PIPELINE INC	858-453-0744	04/26/2022	1-LV3 Lft 3rd Msg on VM	RequestedWrittenResp
Cynthia S Brito	TARELLAN	12:57:22		
UNITED GENERAL CONSTRUCTION IN	623-810-0028	04/26/2022	1-RU Not sure if received	Spoke To Chris
Cristen Mason	TARELLAN	13:11:11	2-UNB Not sure of int in bid	RquestedWritteneResp
Valley CM Inc DBA Valley Const	858-444-5979	04/25/2022	1-RYE Yes, rcvd ITB/Emaild Res	p
Galina Mochel	RVIVANCO	11:48:52	2-NRR No/Not Bidding Resp Rcvd	Replied 4/15
Western State Builders	760-270-8639	04/26/2022	1-RN Did not receive	Spoke to Julien
Julian Moen	TARELLAN	13:30:04	2-UNB Not sure of int in bid	RequestedWrittenResp
Westturf Landscape Management	760-650-3120	04/26/2022	1-LV3 Lft 3rd Msg on VM	RequestedWrittenResp
Sergio Graham	TARELLAN	13:32:13		-
WESTERN GARDENS LANDSCAPING IN	760-720-1459	04/25/2022	1-LV3 Lft 3rd Msg on VM	Req WR in nsg
Greg Vasilieff				

********	***** SMALL BU	JSINESS EXCHANO	GE, INC. *************	***** PAGE:	6
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*	* REQU	JEST FULFILLMEN	1T		*
* RVIVANCO	* S	SCRIPT RESULTS	*		*
*********	******	******	*******	*****	***
TYPE: SCR TOPIC: dmo-4442	SCRIPT: RECLL2 DESC	CRIPTION: SUKUT	CONST ORGANIC PRO		
COMPANY NAME / CONTACT	PHONE / CALLER	CALL DT/TM	# RESP & DESCRIPTIO	COMMENT	
WG CONSTRUCTION INC	619-415-4538	04/25/2022	1-LVM Lft Msq on VM	For Bill Reg WR	
William Gwyn	RVIVANCO	15:55:17	3	-	
WHITSON CONTRACTING & MANAGEME	858-673-0966	04/25/2022	1-RYE Yes, rcvd ITB/Emaild Resp	Per Mitch	
Mitchel Whitson	RVIVANCO	16:04:22	2-YRR Yes/Bidding Response Rcvd	Replied 4/25	
			3-	TBD	
			4-ANN Assist not needed		
Xpedient Communication INC	858-964-5333	04/25/2022	1-RY Yes, received invitation	Per Rebecca	
Doug Catania	RVIVANCO	16:50:28	2-UNB Not sure of int in bid	Will reply to email	
ZASUETA CONTRACTING INC	619-589-0609	04/25/2022	1-LV2 Lft 2nd Msg on VM	For Edward	
Mr. Edward Zasueta	RVIVANCO	16:51:56			
3Sixty Innovation inc	858-304-1093	04/25/2022	1-LVM Lft Msg on VM	For Mike	
Mohamad Muhsin	RVIVANCO	16:56:25			
90 RECORDS LISTED					

B5. Written verifications

ITB From Sukut Construction - Bid Date 4/29/22 - Organics Processing Facility Project, RFP No. K-22-2049-DB1-3-C in San Diego, CA





Your prompt response to confirm whether bidding/not bidding via email is greatly

Thank you, Rosalie

appreciated.

Organics Processing Facility, San Diego





John Moore <john@millerpavingcorp.com>











Fri 4/1/2022 6:58 AM To: Rosalie Vivanco

Good Morning,

We are interested in bidding Organics Processing Facility, San Diego as an SLBE Asphalt contractor.

CL – A, C12 - 280876 DIR#1000002909

Thank you,

John Moore Estimator Miller Paving Corporation

9236 Olive Drive

Spring Valley, Ca 91977

P: 619.465.3725 F: 619.465.2821

Email: john@millerpavingcorp.com



ITB From Sukut Construction - Bid Date 4/12/22 - Organics Processing Facility Project, RFP No. K-22-2049-DB1-3-C in San Diego, CA





Estimating < Estimating@uuisd.com >

Tue 4/5/2022 11:56 AM

To: Rosalie Vivanco

Not bidding

Valerie Murphy



Valerie Murphyl General Manager

9102 Harness Street #B, Spring Valley, CA 91977

o 619-461-9500 l f 619-461-9595

estimating@uuisd.com www.uuisd.com

• • •

Reply

Forward



Rosalie Vivanco



Hi Valerie, Attached is an Invitation to Bid from Sukut Construction that I call...

Tue 4/5/2022 11:18 AM

Not Bidding - Confirmation Needed For Organics Processing Facility Project In San Diego, CA





Galina Mochel < Galina. Mochel @valleycm.com>

Fri 4/15/2022 11:29 AM

To: Rosalie Vivanco



We are not bidding

Thanks, Galina

On Apr 15, 2022, at 10:48 AM, Rosalie Vivanco < rvivanco@sbeinc.com > wrote:

Greetings Galina,

We previously called you back on April 5, 2022 and during that call, you stated that you would not be bidding on this project.

Would you mind replying to this email to confirm the not bidding response?

Thanks in advance.

Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com Website: www.sbeinc.com

Thank you for letting us know.

Thank you for your confirmation.

Thank you for getting back to me!

ITB From Sukut Construction - Bid Date 4/12/22 - Organics Processing Facility Project, RFP No. K-22-2049-DB1-3-C in San Diego, CA



Felicia Salzano <salzanoaccounting@hotmail.com> FS Tue 4/5/2022 11:33 AM To: Rosalie Vivanco No not bidding this job Felicia Salzano Salzano Engineering, Inc. PO Box 7 Descanso, CA 91916 (619) 593-9592 salzanoaccounting@hotmail.com . . . Got it, thank you. Ok, thanks for letting me know. Why not? Are the suggestions above helpful? No Reply Forward



Rosalie Vivanco

 \mathbb{U}

Greetings Ms. Salzano, Attached is an Invitation to Bid from S...

Tue 4/5/2022 11:33 AM

Not Bidding - Confirmation Needed For Organics Processing Facility Project In San Diego, CA





Christian Cabug <ccabug@bertsalasinc.com>

Fri 4/15/2022 12:20 PM

To: Rosalie Vivanco

Not bidding

Sincerely,

Christian Cabug Office Manager Bert W. Salas, Inc. 11203 Highway 67 Lakeside, CA 92040

Ph: 619.562.7711 F: 619.258.3515

ccabug@bertsalasinc.com

• • •

Reply

Forward



Rosalie Vivanco

Fri 4/15/2022 10:14 AM

To: ccabug@bertsalasinc.com



Hi Christian,

This is to follow up on our phone conversation today, in which, you stated that you would not be bidding on this project.

Would you mind replying to this email to confirm the not bidding response?

Thanks in advance.

Rosalie

Rosalie Vivanco

Small Business Exchange, Inc.

P: 800-800-8534 ext. 307

C: 415-290-8986

E. rvivanco@sbeinc.com
Website: www.sbeinc.com

B6. Not Interested Summary

```
QUERY NAME . . . DMO_NOB_4H
                                        LIBRARY NAME . . . PRDQRY
                                                    LIBRARY
                                        FILE
                                                                 MEMBER
                                                                              FORMAT
                                                                 DMO_NOB_4G
                                                                              DMO_NOB_4G
                                        DMO_NOB_4G
                                                    TRANSFER
                                        DATE . . . . . . . 04/26/22
                                        TIME . . . . . . . 17:53:46
                                            Print Summary Not Bidding Rpt by resp code
04/26/22 17:53:46
                                                PAGE
                                                      1
TOPIC
         HSRSP2 RESULT
                                                   RESULT
                                                  COUNT
DM0-4442
          N-I
                 Not interested
                                                       6
DM0-4442
          N_B
                 No, we will not bid
DM0-4442
          NRE
                 Remove from Bidders List
DM0-4442
          NRR
                 No/Not Bidding Resp Rcvd
                 Not interested; not union
DM0-4442
          NU
DM0-4442
                 Out of my scope of work
          NW
                                      FINAL TOTALS
                                                      23
                                      T0TAL
* * * E N D O F R E P O R T * * *
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B7. Not Interested Detail

FORMAT
DMO_NOB_4F
BOFREMST
BOFP100R
BOFRECNT

				Print Detail N	ot Bid	ldina Rpt b	v Resp Code				
04/26/22	17:53:47						,,				PAGE 1
TOPIC	Response	Response	Company	Response	Title	First	Last	Phone#	Fax#	Email Address	SBE
	Code/Description	Date	Name	Comment		Name	Name				Entity#
DM0-4442	N-I Not interested	04/14/2022	MERINO LANDSCAPE INC	requested wr		Chris	Merino	619-348-9932		support@merinolandscape.com	00312606
DM0-4442		04/05/2022	CONCRETE BUILDING SYSTEMS CONS	•		Karen	Chapman	760-731-3224	760-731-1205	office@concretebuildingsystemsinc.com	00487031
DM0-4442		04/14/2022	Hankins Construction Inc	Sent Req. for WR		Deborah	Hankins			pavnldy@hankinsconstruction.com	01595032
DM0-4442		04/26/2022	CTE INC	No Subwrk-Reg WR		Reggie	Clark	619-733-6791	619-561-7686	reggie@cte-ca.com	01783580
DM0-4442		04/14/2022	David H. Knight DBA Knight Pow			David	Knight			DK@knightpowerelectric.com	01918530
DM0-4442		04/05/2022	Coastal Tree Care INC	RequestedWrittenResp		Joseph	Duane Eves	619-847-4225		arborist@coastaltreecare.com	02004284
			COUNT	6		•				-	
DM0-4442	N_B No, we will not bid	04/26/2022	SUBSURFACE SURVEYS & ASSOCIATE	requestedWrittenResp	Mr.	George	Herman			gherman@subsurfacesurveys.com	00100676
DM0-4442		04/25/2022	Alvarez and Shaw Inc	Refuses to give WR		CHASE	ALVAREZ	619-454-2484	619-454-2484	Dshaw@alvarezandshaw.com	01934298
DM0-4442		04/26/2022	RP General Construction Inc	RequestedWrittenResp		Yvette	Yanez	760-294-1669		rpgeneralconst@yahoo.com	01953315
DM0-4442			BERNAL BUILDERS INC	Req for WR sent 4/15		MANUEL	BERNAL	619-540-9618	NotListed	BernalBuildersinc@gmail.com	01961734
DM0-4442		04/26/2022	Jon Kay dba Kay Construction C	RequestedWrittenResp		Jon	Kay	619-654-9099		amyk@kayconstructionco.com	01979205
DM0-4442		04/26/2022	Blue Swell Construction Manage			Laurie	Vasquez	951-315-8057		lv@blueswellcm.com	02004238
DM0-4442		04/25/2022	AXL Group INC	Req For WR Sent 4/25		John	Rillman Bartholo	760-470-9550	760-470-9550	john@axlco.com	02004248
			COUNT	7							
DM0-4442	NRE Remove from Bidders List	04/25/2022	Ambrit Services Inc	Will not give WR		Chris	Hyams	619-582-9600	NotListed	chris@ambritservices.com	00643670
			COUNT	_							
	NRR No/Not Bidding Resp Rcvd		BERT W SALAS INC	WR Req & Rec'd 4/15		B0B	SALAZ			bsalaz@bertsalasinc.com	00108201
DM0-4442			UNDERGROUND UTILITIES INC	Replied 4/5		Michael	Harness			office@uuisd.com	00282702
DM0-4442				Replied 4/5		Kristi	Sutherlin			ksuthe4187@aol.com	00406492
DM0-4442			SALZANO ENGINEERING INC	Replied 4/5	Ms.	Felicia	Salzano			salzanoaccounting@hotmail.com	00486937
DM0-4442			Valley CM Inc DBA Valley Const			Galina	Mochel			Galina.mochel@valleycm.com	00637924
DM0-4442		04/26/2022	Montano Pipeline Inc	Replied 4/26		Dan	Scheider	619-380-4815		jose@montanopipeline.com	01986037
			COUNT								
DM0-4442	NU Not interested; not union	04/14/2022	Maxim Construction Co Inc	Sent Req. for WR		Derek	Franken	619-990-4245	619–334–1880	derek@maximcci.com	01952306
			COUNT				_				
	NW Out of my scope of work		ZASUETA CONTRACTING INC	Playground equip Ins		Edward	Zasueta			zcioffice@cox.net	00093785
DM0-4442		04/25/2022	Cielo Azul Inc DBA Cielo Azul			Pedro	(pete) Navarro	858-722-7164		mrblue13@aol.com	02004283
			COUNT								
				TOTALS							
	ND OF DEDODT was		COUNT	23							

* * * E N D O F R E P O R T * * *

B8. Final Disposition After 3 Telephone Follow-up Calls

```
SKILLS
                                                                                                                                                                    B0PSSBE
                                                                                                                                                                                  SKILLS
                                                                                                                                                       B0FP100
                                                                                                                                                                    BOPSSBE
                                                                                                                                                                                  R0FP100
                                                                                                                                                                                              ROFP100R
                                                                                                                                                       B0FP100
                                                                                                                                                                    ROPSSRF
                                                                                                                                                                                 ROFP100
                                                                                                                                                                                              BOFP100R
                                                                                                                                                       B0FP100
                                                                                                                                                                    BOPSSBE
                                                                                                                                                                                 R0FP100
                                                                                                                                                                                              BOFP100R
                                                                                                                                                       DATE . . . . . . . . 04/26/22
                                                                                                                                                       TIME . . . . . . . 17:47:16
                                                                                                                                                              Print disposition & all script resps
04/26/22 17:47:16
                                                                                                                                                                                                                           PAGE
Final
                                                                                                                                                                          Date
                                                                                                                                                                                    Time Call Comment 1
                                                                                                                                                                                                                Call Comment 2
Disposition
                     Division Typ Division Description
                                                                   Entity# Entity Name
                                                                                                          Call Response 1
                                                                                                                                     Call Response 2
                                                                                                                                                                          Called Called
                                                                                                                                                               SCR-04 2022/04/05 12:57:50 Just keeps ringing
                                                                  00404897 Franco Barnaba DBA Contemporar Cannot Process
1 - Cant Contact
                     561730
                              N Landscaping Services
                                                                            Franco Barnaba DBA Contemporar Cannot Process
                                                                                                                                                               RECALL 2022/04/15 12:29:46 Rings/No answer
1 - Cant Contact
                     561730
                                 Landscaping Services
                                                                                                                                                               RECLL2 2022/04/25 11:50:19 Rings/No Answer SCR-04 2022/04/04 11:57:45 #Not In Service
1 - Cant Contact
                     561730
                                 Landscaping Services
                                                                            Franco Barnaba DBA Contemporar Cannot Process
                                 Structural Steel & Precast Con
                                                                  01798936 YBS Construction Engineering # Disconnect; no new #
1 - Cant Contact
                     238120
                                                                                                                                                               RECALL 2022/04/15 12:32:09 #Not In Service
                                 Structural Steel & Precast Con
1 - Cant Contact
                     238120
                                                                            YBS Construction Engineering
                                                                                                          # Disconnect; no new #
                                                                                                                                                               RECLL2 2022/04/25 11:51:51 #Not In Service
                                                                            YBS Construction Engineering
1 - Cant Contact
                     238120
                                 Structural Steel & Precast Con
                                                                                                          # Disconnect; no new #
                                                                  01979325 Precision Striping Inc
1 - Cant Contact
                     237310
                                 Highway, Street, & Bridge Cons
                                                                                                          # Disconnect; no new #
                                                                                                                                                               SCR-04 2022/04/05 13:41:20 number not in servic
                                                                                                                                                               RECALL 2022/04/15 12:30:53 #Not In Service
1 - Cant Contact
                     237310
                                 Highway, Street, & Bridge Cons
                                                                            Precision Striping Inc
                                                                                                          # Disconnect; no new #
1 - Cant Contact
                     237310
                                 Highway, Street, & Bridge Cons
                                                                           Precision Striping Inc
                                                                                                          # Disconnect: no new #
                                                                                                                                                               RECLL2 2022/04/25 11:51:13 #Not In Service
                                                                  00065120 SATURN ELECTRIC INC
2 - Left Message
                     238210
                                 Electrical Contractors & Other
                                                                                                          Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/05 13:41:41
                                                                                                                                                               RECALL 2022/04/14 15:04:47 LM
2 - Left Message
                     238210
                                 Electrical Contractors & Other
                                                                           SATURN FLECTRIC INC
                                                                                                          Lft 2nd Msa on VM
2 – Left Message
                                                                                                                                                               RECLL2 2022/04/26 11:49:09 LM
                                 Electrical Contractors & Other
                                                                            SATURN ELECTRIC INC
                     238210
                                                                                                           Lft 3rd Msg on VM
2 - Left Message
                     237310
                                 Highway, Street, & Bridge Cons
                                                                  00193937 Apex Constructors
                                                                                                           Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/05 12:33:37 for John Montoya
2 - Left Message
                     237310
                                 Highway, Street, & Bridge Cons
                                                                           Apex Constructors
                                                                                                           Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 17:56:45 lm requested wr
2 – Left Message
                     237310
                                 Highway, Street, & Bridge Cons
                                                                           Apex Constructors
                                                                                                           Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/25 16:12:13 For John Req WR
                                 Water & Sewer Line & Related S
                                                                  00200430 M-Rae Engineering Inc
2 – Left Message
                     237110
                                                                                                           Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/05 13:56:36
                                                                                                                                                               RECALL 2022/04/14 17:24:58 LM requested WR
2 - Left Message
                     237110
                                 Water & Sewer Line & Related S
                                                                           M-Rae Engineering Inc
                                                                                                           Lft 2nd Msg on VM
2 – Left Message
                     237110
                                 Water & Sewer Line & Related S
                                                                           M-Rae Engineering Inc
                                                                                                           Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/26 17:25:53 Rea'd WR
                                                                  00429142 BONITA PĪPELINE ĪNC
2 - Left Message
                     237110
                                 Water & Sewer Line & Related S
                                                                                                          Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/04 13:20:48
                                                                                                                                                               RECALL 2022/04/14 16:52:26 LM requested wr
2 – Left Message
                     237110
                                 Water & Sewer Line & Related S
                                                                            BONITA PIPELINE INC
                                                                                                           Lft 2nd Msg on VM
2 - Left Message
                     237110
                                 Water & Sewer Line & Related S
                                                                           BONITA PIPELINE INC
                                                                                                          Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/25 15:47:39 Req WR in msg
2 – Left Message
                     237110
                                 Water & Sewer Line & Related S
                                                                  00430252 FALCON CONSTRUCTION CO
                                                                                                           Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/05 13:14:14
2 - Left Message
                     237110
                                 Water & Sewer Line & Related S
                                                                            FALCON CONSTRUCTION CO
                                                                                                          Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 17:44:16 requested wr
                                                                            FALCON CONSTRUCTION CO
2 – Left Message
                     237110
                                 Water & Sewer Line & Related S
                                                                                                           Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/26 17:11:09 Req WR in msg
                                                                  00487165 DR. DEMO DEMOLITION SERVICES
2 - Left Message
                     238990
                              N All Other Specialty Trade Cont
                                                                                                          Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/05 14:04:56 for Ric
                                                                           DR. DEMO DEMOLITION SERVICES
2 – Left Message
                     238990
                                 All Other Specialty Trade Cont
                                                                                                          Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 16:49:35 LM
2 - Left Message
                     238990
                              N All Other Specialty Trade Cont
                                                                           DR. DEMO DEMOLITION SERVICES
                                                                                                          Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/25 16:38:18 For Ric
                                                                  00622361 HABITAT WEST INC
2 - Left Message
                     561730
                                 Landscaping Services
                                                                                                          Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/05 11:48:45 stating we nd WR
2 - Left Message
                     561730
                                 Landscaping Services
                                                                           HABITAT WEST INC
                                                                                                          Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 17:50:43 requested wr
2 - Left Message
                     561730
                                 Landscaping Services
                                                                           HABITAT WEST INC
                                                                                                           Lft 3rd Msa on VM
                                                                                                                                                               RECLL2 2022/04/26 17:19:52 Reg'd WR
                                                                  00631213 D&D Wildlife Habitat Restorati Lft Msg on VM
2 – Left Message
                     561730
                                 Landscaping Services
                                                                                                                                                               SCR-04 2022/04/05 12:28:14
2 – Left Message
                     561730
                                 Landscaping Services
                                                                            D&D Wildlife Habitat Restorati Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 17:59:51 requested wr
2 - Left Message
                     561730
                                 Landscaping Services
                                                                           D&D Wildlife Habitat Restorati Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/25 15:47:44 Reg WR in msg
                                 Electrical Contractors & Other
                                                                                                                                                               SCR-04 2022/04/05 13:33:46 for Michael
2 - Left Message
                     238210
                                                                  00642113 M Carlin Systems INC dba MC Sy Lft Msg on VM
2 - Left Message
                     238210
                              N Electrical Contractors & Other
                                                                           M Carlin Systems INC dba MC Sy Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 17:35:47 requested wr
                                                                  M Carlin Systems INC dba MC Sy Lft 3rd Msg on VM
01592060 MONTGOMERY CONSTRUCTION SERVIC Lft Msg on VM
2 – Left Message
                     238210
                                 Electrical Contractors & Other
                                                                                                                                                               RECLL2 2022/04/26 17:26:15 Req'd WR
2 - Left Message
                     238110
                                 Poured Concrete Foundation & S
                                                                                                                                                               SCR-04 2022/04/05 14:00:56 for Cliff
                                                                           MONTGOMERY CONSTRUCTION SERVIC Lft 2nd Msg on VM
2 – Left Message
                     238110
                                 Poured Concrete Foundation & S
                                                                                                                                                               RECALL 2022/04/14 17:32:10 requested wr
                                                                  01592060 MONTGOMERY CONSTRUCTION SERVIC Lft 3rd Msg on VM
2 - Left Message
                     238110
                                 Poured Concrete Foundation & S
                                                                                                                                                               RECLL2 2022/04/25 15:13:08
                                 Electrical Contractors & Other 01592247 MOOR ELECTRIC INC
2 – Left Message
                     238210
                                                                                                          Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/05 14:12:35
2 - Left Message
                     238210
                                 Electrical Contractors & Other
                                                                           MOOR ELECTRIC INC
                                                                                                          Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 17:28:09 rquested wr
2 - Left Message
                     238210
                                 Electrical Contractors & Other
                                                                           MOOR ELECTRIC INC
                                                                                                           Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/25 15:47:41 Req WR in msg
2 - Left Message
                     238110
                                 Poured Concrete Foundation & S
                                                                  01593415 BLACK IPO
                                                                                                          Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/04 15:43:15
2 – Left Message
                     238110
                                 Poured Concrete Foundation & S
                                                                           BLACK TPO
                                                                                                          Lft 2nd Msa on VM
                                                                                                                                                               RECALL 2022/04/14 16:46:35 requested WR
2 - Left Message
                     238110
                                 Poured Concrete Foundation & S
                                                                           BLACK IPO
                                                                                                          Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/26 11:37:15 RequestedWrittenResp
                                                                  01606909 IN-LINE FENCE & RAILING CO INC Lft Msg on VM
2 - Left Message
                     237310
                                 Highway, Street, & Bridge Cons
                                                                                                                                                               SCR-04 2022/04/05 13:03:38 stating nd WR
2 - Left Message
                     237310
                                 Highway, Street, & Bridge Cons
                                                                            IN-LINE FENCE & RAILING CO INC Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 17:51:21 requested wr
                                                                            IN-LINE FENCE & RAILING CO INC Lft 3rd Msg on VM
2 - Left Message
                     237310
                                 Highway, Street, & Bridge Cons
                                                                                                                                                               RECLL2 2022/04/26 15:44:10
2 - Left Message
                     238210
                                 Electrical Contractors & Other
                                                                  01613892 LOW VOLTAGE FIRE INC
                                                                                                          Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/05 11:49:43 stating we nd WR
2 - Left Message
                     238210
                                 Electrical Contractors & Other
                                                                            LOW VOLTAGE FIRE INC
                                                                                                          Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 17:34:25 requested wr
2 - Left Message
                     238210
                                 Electrical Contractors & Other
                                                                           LOW VOLTAGE FIRE INC
                                                                                                          Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/26 17:21:52 Reg'd WR
                                                                  01703249 WESTERN GARDENS LANDSCAPING IN Lft Msg on VM
 - Left Message
                     561730
                                 Landscaping Services
                                                                                                                                                               SCR-04 2022/04/04 15:45:45 For Greg
2 - Left Message
                     561730
                                 Landscaping Services
                                                                           WESTERN GARDENS LANDSCAPING IN Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 11:53:11 LM Requested WR
2 – Left Message
                     561730
                                 Landscaping Services
                                                                           WESTERN GARDENS LANDSCAPING IN Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/25 15:52:24 Req WR in nsg
                                                                  01705076 BLACK SAGE ENVIRONMENTAL INC Lft Msg on VM
2 - Left Message
                     561730
                                 Landscaping Services
                                                                                                                                                               SCR-04 2022/04/04 13:18:28
                                                                            BLACK SAGE ENVIRONMENTAL INC
2 – Left Message
                     561730
                                 Landscaping Services
                                                                                                          Lft 2nd Msa on VM
                                                                                                                                                               RECALL 2022/04/14 16:43:28 LM
2 - Left Message
                     561730
                                 Landscaping Services
                                                                           BLACK SAGE ENVIRONMENTAL INC
                                                                                                          Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/26 11:39:13 RequestedWrittenResp
                                 Metal Service Centers & Other
2 – Left Message
                     423510
                                                                  01778501 SPECS CIVIL SOLUTIONS INC
                                                                                                          Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/05 13:08:36
2 - Left Message
                     423510
                                 Metal Service Centers & Other
                                                                           SPECS CIVIL SOLUTIONS INC
                                                                                                          Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 11:50:28 LM requested WR
2 – Left Message
                     423510
                                 Metal Service Centers & Other
                                                                            SPECS CIVIL SOLUTIONS INC
                                                                                                          Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/26 12:20:59 RequestedWrittenResp
2 - Left Message
                     237310
                                 Highway, Street, & Bridge Cons
                                                                  01781744 TRANSTAR PIPELINE INC
                                                                                                          Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/05 13:21:44
                                                                            TRANSTAR PIPELINE INC
                                                                                                                                                               RECALL 2022/04/14 11:57:33 LM Requested WR
2 - Left Message
                     237310
                                 Highway, Street, & Bridge Cons
                                                                                                          Lft 2nd Msg on VM
2 - Left Message
                     237310
                                 Highway, Street, & Bridge Cons
                                                                            TRANSTAR PIPELINE INC
                                                                                                          Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/26 12:57:22 RequestedWrittenResp
 - Left Message
                     238110
                                 Poured Concrete Foundation & S
                                                                  01793184 Accent Engineering And Constru Lft Msg on VM
                                                                                                                                                               SCR-04 2022/04/04 12:10:11
2 - Left Message
                     238110
                              N Poured Concrete Foundation & S
                                                                           Accent Engineering And Constru Lft 2nd Msg on VM
                                                                                                                                                               RECALL 2022/04/14 16:22:43 LM
2 - Left Message
                     238110
                              N Poured Concrete Foundation & S
                                                                           Accent Engineering And Constru Lft 3rd Msg on VM
                                                                                                                                                               RECLL2 2022/04/25 15:45:03 Req. WR in msg
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QUERY NAME TALLY_9H LIBRARY NAME . . . PRDQRY

TRANSFER

TRANSFFR

TALLY 9A

TALLY 3

MEMBER

TALLY 9A

TALLY 3

FORMAT

TALLY 9A

TALLY 3

SKTLLS

2 – Left Message			01852723 ABBA Project Management	Lft Msg on VM	SCR-04 2022/04/04 12:19:19	
2 – Left Message		N Water & Sewer Line & Related S		Lft 2nd Msg on VM	RECALL 2022/04/14 17:53:14 requested wr	
2 – Left Message		Ⅰ Water & Sewer Line & Related S		Lft 3rd Msg on VM	RECLL2 2022/04/25 16:15:21 Req'd WR in msg	
2 – Left Message	237110 I	Water & Sewer Line & Related S	01952307 Reilly Construction Management	t Lft Msg on VM	SCR-04 2022/04/05 13:59:37	
2 – Left Message		N Water & Sewer Line & Related S			RECALL 2022/04/14 17:12:21 LM requested WR	
2 - Left Message		Water & Sewer Line & Related S			RECLL2 2022/04/25 15:16:46 LM REQUESTED WR	
2 – Left Message		Landscaping Services	01960943 San Diego Native Landscapes In		SCR-04 2022/04/05 13:52:42	
2 - Left Message		l Landscaping Services	San Diego Native Landscapes In		RECALL 2022/04/14 16:53:54 LM requested wr	
2 – Left Message		l Landscaping Services	San Diego Native Landscapes In		RECLL2 2022/04/25 14:47:44 lm requested WR	
2 – Left Message			01963845 REC Trucking INC dba AR Concre		SCR-04 2022/04/05 13:56:37	
2 – Left Message	238110 I	N Poured Concrete Foundation & S	REC Trucking INC dba AR Concre	e Lft 2nd Msg on VM	RECALL 2022/04/14 12:11:46 LM	
2 – Left Message	238110 I	I Poured Concrete Foundation & S	REC Trucking INC dba AR Concre	e Lft 3rd Msg on VM	RECLL2 2022/04/26 13:37:10 LM	
2 – Left Message	238990 I	All Other Specialty Trade Cont	01968541 ACCURATE ASPHALT & CONCRETE IN		SCR-04 2022/04/04 12:21:34	
2 – Left Message		All Other Specialty Trade Cont			RECALL 2022/04/14 17:54:15 requested wr	
2 - Left Message		All Other Specialty Trade Cont			RECLL2 2022/04/25 16:23:52 Reg'd WR in msg	
2 – Left Message			01968707 Cross Construction Inc	Lft Msg on VM	SCR-04 2022/04/05 11:57:12	
2 – Left Message		I Poured Concrete Foundation & S		Lft 2nd Msg on VM	RECALL 2022/04/14 18:02:47 requested wr	
2 – Left Message		Noured Concrete Foundation $\&$ S		Lft 3rd Msg on VM	RECLL2 2022/04/26 15:46:30	
2 – Left Message	237310 I	Ⅰ Highway, Street, & Bridge Cons	01979323 Kirk Paving Inc	Lft Msg on VM	SCR-04 2022/04/05 13:31:29 stated nd WR	
2 – Left Message	237310 I	Highway, Street, & Bridge Cons	Kirk Paving Inc	Lft 2nd Msg on VM	RECALL 2022/04/14 17:25:36 requested wr	
2 – Left Message		N Highway, Street, & Bridge Cons		Lft 3rd Msg on VM	RECLL2 2022/04/26 17:06:48 Req WR in msg	
2 – Left Message		All Other Specialty Trade Cont		Lft Msg on VM	SCR-04 2022/04/05 11:51:20 stating we nd WR	
2 - Left Message		All Other Specialty Trade Cont		Lft 2nd Msg on VM	RECALL 2022/04/14 17:59:11 requested wr	
2 - Left Message		All Other Specialty Trade Cont		Lft 3rd Msg on VM	RECLL2 2022/04/25 15:51:33 Req WR in msg	
2 – Left Message			02004246 Crown Concrete Constructors IN		SCR-04 2022/04/05 12:01:50	
2 – Left Message		Poured Concrete Foundation & S			RECALL 2022/04/14 18:03:24 requested wr	
2 – Left Message		N Poured Concrete Foundation & S			RECLL2 2022/04/26 16:40:16 Req'd WR in msg	
2 – Left Message	238210 I	I Electrical Contractors & Other	02004249 Phoenix Renewable Services LL	Lft Msg on VM	SCR-04 2022/04/05 13:58:12 for Hassan	
2 – Left Message		I Electrical Contractors & Other	Phoenix Renewable Services LL		RECALL 2022/04/14 12:12:15 Requested WR	
2 – Left Message		Electrical Contractors & Other			RECLL2 2022/04/25 17:00:29 Req WR in msg	
2 - Left Message		Electrical Contractors & Other		Lft Msg on VM	SCR-04 2022/04/05 13:49:59 858-414-7094	
		Electrical Contractors & Other		Lft 2nd Msg on VM		
2 - Left Message			Sattler Solar INC		RECALL 2022/04/14 12:19:39 requested WR	
2 – Left Message		I Electrical Contractors & Other		Lft 3rd Msg on VM	RECLL2 2022/04/25 15:52:03 Req WR in msg	
3 – Not Bidding			00093785 ZASUETA CONTRACTING INC	Yes, received invitation Out of my scope of work	SCR-04 2022/04/04 11:53:20	Playground equip Ins
3 – Not Bidding	238990 I	I All Other Specialty Trade Cont	ZASUETA CONTRACTING INC	Lft Msg on VM	RECALL 2022/04/14 17:51:55 WR Req. From Edward	
3 - Not Bidding	238990 I	I All Other Specialty Trade Cont	ZASUETA CONTRACTING INC	Lft 2nd Msg on VM	RECLL2 2022/04/25 16:51:56 For Edward	
3 - Not Bidding		All Other Support Services	00100676 SUBSURFACE SURVEYS & ASSOCIATE		SCR-04 2022/04/05 13:14:12	
3 - Not Bidding		All Other Support Services	SUBSURFACE SURVEYS & ASSOCIATE		RECALL 2022/04/14 11:53:47 LM Requested WR	
3 - Not Bidding		All Other Support Services	SUBSURFACE SURVEYS & ASSOCIATE		RECLL2 2022/04/26 12:34:57 spoke to George	requestedWrittenResp
						requesteum ittellnesp
3 - Not Bidding		Highway, Street, & Bridge Cons		Cannot Process	SCR-04 2022/04/04 13:16:36 would not transfer	UD D C D L - L - 4 / 4 F
3 - Not Bidding		No Highway, Street, & Bridge Cons		Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd		WR Req & Rec'd 4/15
3 - Not Bidding		N Water & Sewer Line & Related S	00282702 UNDERGROUND UTILITIES INC	Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd	SCR-04 2022/04/05 13:27:34 Per Valerie	Denlied 1/5
				, =, =,,	Selt 01 2022/01/05 1512/151 1 CT Valerie	Replied 4/5
3 - Not Bidding	561730 I	l Landscaping Services	00312606 MERINO LANDSCAPE INC	Lft Msg on VM	SCR-04 2022/04/05 14:01:16	Reptied 4/3
3 - Not Bidding				Lft Msg on VM	SCR-04 2022/04/05 14:01:16	•
<pre>3 - Not Bidding 3 - Not Bidding</pre>	561730 I	l Landscaping Services	MERINO LANDSCAPE INC	Lft Msg on VM Yes, received invitation Not interested	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/14 17:33:54 per chris	requested wr
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3 - Not Bidding3 - Not Bidding3 - Not Bidding3 - Not Bidding	561730 I 561730 I	<pre>l Landscaping Services l Landscaping Services</pre>	MERINO LANDSCAPE INC	Lft Msg on VM Yes, received invitation Not interested	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/14 17:33:54 per chris RECLL2 2022/04/25 11:48:15	requested wr Replied 4/5
3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 04/26/22 17:47:16	561730 I 561730 I 238210 I	Landscaping ServicesLandscaping ServicesElectrical Contractors & Other	MERINO LANDSCAPE INC MERINO LANDSCAPE INC	Lft Msg on VM Yes, received invitation Not interested Lft Msg on VM	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/14 17:33:54 per chris RECLL2 2022/04/25 11:48:15 SCR-04 2022/04/05 13:14:05 Per Kristi	requested wr Replied 4/5 PAGE 4
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3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 04/26/22 17:47:16 Final Disposition	561730 561730 561730 5238210	 Landscaping Services Landscaping Services Electrical Contractors & Other Division Description 	MERINO LANDSCAPE INC MERINO LANDSCAPE INC 00406492 SUTHERLIN CONTRACTING INC Entity# Entity Name	Lft Msg on VM Yes, received invitation Not interested Lft Msg on VM Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Call Response 1 Call Response 2	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/14 17:33:54 per chris RECLL2 2022/04/25 11:48:15 SCR-04 2022/04/05 13:14:05 Per Kristi Script Date Time Call Comment 1 Called Called	requested wr Replied 4/5 PAGE 4 Call Comment 2
3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 04/26/22 17:47:16 Final Disposition 3 - Not Bidding	561730 561730 238210 Division T 237110	 Landscaping Services Landscaping Services Electrical Contractors & Other p Division Description Water & Sewer Line & Related S 	MERINO LANDSCAPE INC MERINO LANDSCAPE INC 00406492 SUTHERLIN CONTRACTING INC Entity# Entity Name 00486937 SALZANO ENGINEERING INC	Lft Msg on VM Yes, received invitation Not interested Lft Msg on VM Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Call Response 1 Call Response 2 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/14 17:33:54 per chris RECLL2 2022/04/25 11:48:15 SCR-04 2022/04/05 13:14:05 Per Kristi Script Date Time Call Comment 1 Called Called SCR-04 2022/04/05 13:43:35 Per Felicia	requested wr Replied 4/5 PAGE 4
3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 04/26/22 17:47:16 Final Disposition 3 - Not Bidding 3 - Not Bidding	561730 561730 561730 5238210 5237110 5238110	 Landscaping Services Landscaping Services Electrical Contractors & Other p Division Description Water & Sewer Line & Related S 	MERINO LANDSCAPE INC MERINO LANDSCAPE INC 00406492 SUTHERLIN CONTRACTING INC Entity# Entity Name 00486937 SALZANO ENGINEERING INC 00487031 CONCRETE BUILDING SYSTEMS CONS	Lft Msg on VM Yes, received invitation Not interested Lft Msg on VM Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Call Response 1 Call Response 2 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Not sure if received Not interested	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/14 17:33:54 per chris RECLL2 2022/04/25 11:48:15 SCR-04 2022/04/05 13:14:05 Per Kristi Script Date Time Call Comment 1 Called SCR-04 2022/04/95 13:43:35 Per Felicia SCR-04 2022/04/05 12:22:49 Spoke to Ty Jones	requested wr Replied 4/5 PAGE 4 Call Comment 2
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3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 04/26/22 17:47:16 Final Disposition 3 - Not Bidding 3 - Not Bidding	561730 1 561730 1 238210 1 Division Ty 237110 1 238110 1	 Landscaping Services Landscaping Services Electrical Contractors & Other Operation Water & Sewer Line & Related S Poured Concrete Foundation & S 	MERINO LANDSCAPE INC MERINO LANDSCAPE INC 00406492 SUTHERLIN CONTRACTING INC Entity# Entity Name 00486937 SALZANO ENGINEERING INC 00487031 CONCRETE BUILDING SYSTEMS CONS CONCRETE BUILDING SYSTEMS CONS	Lft Msg on VM Yes, received invitation Not interested Lft Msg on VM Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Call Response 1 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Not sure if received Not interested Lft Msg on VM	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/14 17:33:54 per chris RECLL2 2022/04/25 11:48:15 SCR-04 2022/04/05 13:14:05 Per Kristi Script Date Time Call Comment 1 Called SCR-04 2022/04/95 13:43:35 Per Felicia SCR-04 2022/04/05 12:22:49 Spoke to Ty Jones	requested wr Replied 4/5 PAGE 4 Call Comment 2
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3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 9 - Not Bidding 04/26/22 17:47:16 Final Disposition 3 - Not Bidding	561730 561730 561730 561730 561730 561730 561730 561730 561730 5617310 56173	Landscaping Services Landscaping Services Landscaping Services Lectrical Contractors & Other Division Description Water & Sewer Line & Related S Poured Concrete Foundation & S Poured Concrete Foundation & S Poured Concrete Foundation & S Water & Sewer Line & Related S Water & Sever Line & Bridge Cons Highway, Street, & Bridge Cons Helectrical Contractors & Other Electrical Contractors & Other Helectrical Contractors & Other Contractors & Other Helectrical Contractors & Other	MERINO LANDSCAPE INC MERINO LANDSCAPE INC 00406492 SUTHERLIN CONTRACTING INC Entity# Entity Name 00486937 SALZANO ENGINEERING INC 00487031 CONCRETE BUILDING SYSTEMS CONS CONCRETE BUILDING SYSTEMS CONS CONCRETE BUILDING SYSTEMS CONS Valley CM Inc DBA Valley Const Valley CM Inc DBA Knight Pow David H. Knight D	Lft Msg on VM Yes, received invitation Lft Msg on VM Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Call Response 1 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Not sure if received Lft Msg on VM Lft 2nd Msg on VM Yes, received invitation Not sure of int in bid Not interested; not union Not sure if recvd; email Lft Msg on VM Lft 2nd Msg on VM Lft 2nd Msg on VM Yes, received invitation	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/25 11:48:15 SCR-04 2022/04/05 13:14:05 Per Kristi Script Date Time Call Comment 1 Called SCR-04 2022/04/05 13:43:35 Per Felicia SCR-04 2022/04/05 13:43:35 Per Felicia SCR-04 2022/04/05 12:22:49 Spoke to Ty Jones RECALL 2022/04/14 18:21:45 For Ty Jones RECALL 2022/04/15 13:31:33 Spoke to Galina RECALL 2022/04/14 12:00:34 Per Galina RECALL 2022/04/14 12:15:26 RECALL 2022/04/14 17:48:52 SCR-04 2022/04/05 13:31:33 Spoke to Galina RECLL2 2022/04/14 12:00:34 Per Galina RECLL2 2022/04/14 17:48:52 SCR-04 2022/04/05 13:25:12 Per Debbie RECALL 2022/04/14 18:09:48 Per Chris SCR-04 2022/04/25 16:09:48 Per Chris SCR-04 2022/04/25 11:38:13 SCR-04 2022/04/14 18:09:44 Per Debbie RECALL 2022/04/14 18:19:33 For Reggie RECALL 2022/04/15 11:35:34 SCR-04 2022/04/25 11:35:34 SCR-04 2022/04/25 11:35:34 SCR-04 2022/04/25 10:07:19 Per David RECALL 2022/04/14 16:45:14 per dave RECALL 2022/04/14 16:45:14 per dave RECALL 2022/04/14 16:45:14 per dave RECALL 2022/04/15 13:57:45 Spoke to Dave RECALL 2022/04/14 18:01:52 Per Derek RECALL 2022/04/15 13:55:31 RECALL 2022/04/16 13:55:31 RECALL 2022/04/16 13:55:31 RECALL 2022/04/17 17:00:54 LM requestd WR RECLL2 2022/04/26 13:34:50 Spoke to Mr. Ponce SCR-04 2022/04/04 12:59:31 Spoke to Manuel	requested wr Replied 4/5 PAGE 4 Call Comment 2 Replied 4/5 WR Rec'd 4/15 will send WR Replied 4/15 Requested removal Will not give WR will send WR Sent Req. for WR do not subcontract No Subwrk-Req WR RequestedWrittenResp Sent Req. for WR Have not looked @ it requested wr Refuses to give WR Sent Req. for WR
3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 9 - Not Bidding 04/26/22 17:47:16 Final Disposition 3 - Not Bidding	561730 561730 561730 561730 561730 561730 561730 561730 561730 5617310 56173	Landscaping Services Landscaping Services Landscaping Services Electrical Contractors & Other Division Description Water & Sewer Line & Related S Poured Concrete Foundation & S Poured Concrete Foundation & S Poured Concrete Foundation & S Water & Sewer Line & Related S Water & Sewer Line & Bridge Cons Watighway, Street, & Bridge Cons Water & Sewer Line & Bridge Cons Water Electrical Contractors & Other Water Electrical Contractors & Other Water & Sewer Line & Related S	MERINO LANDSCAPE INC MERINO LANDSCAPE INC 00406492 SUTHERLIN CONTRACTING INC Entity# Entity Name 00486937 SALZANO ENGINEERING INC 00487031 CONCRETE BUILDING SYSTEMS CONS CONCRETE BUILDING SYSTEMS CONS CONCRETE BUILDING SYSTEMS CONS Valley CM Inc DBA Valley Const Valley CM Inc DBA Valley Cons Valley CM Inc DBA Valley Const Valley CM Inc DBA Valley Cons Valley CM Inc DBA Valley Const Valley CM Inc DBA	Lft Msg on VM Yes, received invitation Lft Msg on VM Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Call Response 1 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Not sure if received Lft Msg on VM Lft 2nd Msg on VM Yes, received invitation Not sure of int in bid Yes, received invitation Not sure of int in bid Yes, received invitation Not sure of int in bid Yes, received invitation Not sure of int in bid Yes, received invitation Not sure of int in bid Yes, received invitation Not sure of int in bid Not interested; not union Not sure if recvd; email Not interested; not union Not sure if recvd; email Not interested; not union Not sure if recvd; email Not interested; not union Not sure of int in bid Not interested; not union Not sure of int in bid Not interested; not union Not sure if recvd; email Not interested; not union Not sure of int in bid Not interested; not union Not sure of int in bid Not interested; not union Not sure of int in bid Not interested; not union Not sure of int in bid Not interested; not union Not sure of int in bid Not interested	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/14 17:33:54 per chris RECLL2 2022/04/25 11:48:15 SCR-04 2022/04/05 13:14:05 Per Kristi Script Date Time Called SCR-04 2022/04/05 13:43:35 Per Felicia SCR-04 2022/04/05 12:22:49 Spoke to Ty Jones RECALL 2022/04/14 18:21:45 For Ty Jones RECALL 2022/04/14 18:21:45 For Ty Jones RECALL 2022/04/05 13:31:33 Spoke to Galina RECALL 2022/04/14 12:00:34 Per Galina RECALL 2022/04/14 12:00:34 Per Galina RECALL 2022/04/14 12:526 SCR-04 2022/04/14 17:48:50 SCR-04 2022/04/14 17:48:06 WR Requested RECLL2 2022/04/14 17:48:06 WR Requested RECLL2 2022/04/14 18:09:48 Per Chris SCR-04 2022/04/05 13:25:12 Per Debbie RECALL 2022/04/14 18:09:44 Per Debbie RECALL 2022/04/14 18:19:33 For Reggie RECALL 2022/04/14 18:19:34 Spoke to David RECALL 2022/04/14 18:18:09 Per David RECALL 2022/04/15 11:35:34 SCR-04 2022/04/15 11:35:34 SCR-04 2022/04/16 18:18:09 Per David RECALL 2022/04/17 18:18:09 Per Dave RECALL 2022/04/18 18:18:09 Per Dave RECALL 2022/04/18 18:18:09 Per Dave RECALL 2022/04/18 18:18:09 Per Dave RECALL 2022/04/14 18:19:35 Spoke to Dave RECALL 2022/04/15 11:35:34 SCR-04 2022/04/05 13:55:31 RECALL 2022/04/16 13:55:31 RECALL 2022/04/17 17:00:54 LM requestd WR RECALL 2022/04/14 17:00:54 LM requestd WR RECALL 2022/04/14 18:07:11 requested wr	requested wr Replied 4/5 PAGE 4 Call Comment 2 Replied 4/5 WR Rec'd 4/15 will send WR Replied 4/15 Requested removal Will not give WR will send WR Sent Req. for WR do not subcontract No Subwrk-Req WR RequestedWrittenResp Sent Req. for WR Have not looked @ it requested wr Refuses to give WR Sent Req. for WR RequestedWrittenResp
3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 9 - Not Bidding 04/26/22 17:47:16 Final Disposition 3 - Not Bidding	561730 561730 561730 561730 561730 561730 561730 561730 5617310 5617	Landscaping Services Landscaping Services Landscaping Services Electrical Contractors & Other Division Description Water & Sewer Line & Related S Poured Concrete Foundation & S Poured Concrete Foundation & S Poured Concrete Foundation & S Water & Sewer Line & Related S Water & Sewer Line & Related S Water & Sewer Line & Related S Water & Sewer Line & Bridge Cons Highway, Street, & Bridge Cons Highwa	MERINO LANDSCAPE INC MERINO LANDSCAPE INC 00406492 SUTHERLIN CONTRACTING INC Entity# Entity Name 00486937 SALZANO ENGINEERING INC 00487031 CONCRETE BUILDING SYSTEMS CONS CONCRETE BUILDING SYSTEMS CONS CONCRETE BUILDING SYSTEMS CONS Valley CM Inc DBA Valley Const O0643670 Ambrit Services Inc Ambrit Services Inc Ambrit Services Inc Ambrit Services Inc O1595032 Hankins Construction Inc Hankins Construction Inc Hankins Construction Inc CTE INC CTE INC CTE INC CTE INC O1918530 David H. Knight DBA Knight Pow David H. Knight DB	Lft Msg on VM Yes, received invitation Call Response 1 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Call Response 1 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Not sure if received Calf Msg on VM Calf Msg on VM Calf Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Calf Msg on VM Calf Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Calf Msg on VM Calf Yes, received invitation Call Response 2 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Calf Msg on VM Calf Yes, received invitation Calf Response 2 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Not interested Calf Msg on VM Yes, received invitation Calf Response 2 Yes, No/Not Bidding Resp Rcvd Not interested Not i	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/14 17:33:54 per chris RECLL2 2022/04/25 11:48:15 SCR-04 2022/04/05 13:14:05 Per Kristi Script Date Time Called SCR-04 2022/04/05 13:43:35 Per Felicia SCR-04 2022/04/05 12:22:49 Spoke to Ty Jones RECALL 2022/04/14 18:21:45 For Ty Jones RECALL 2022/04/14 18:21:45 For Ty Jones RECALL 2022/04/26 16:37:57 For Ty SCR-04 2022/04/26 16:37:57 For Ty SCR-04 2022/04/26 11:33:33 Spoke to Galina RECALL 2022/04/14 12:00:34 Per Galina RECALL 2022/04/14 12:00:34 Per Galina RECALL 2022/04/14 17:48:52 SCR-04 2022/04/14 17:48:50 WR Requested RECALL 2022/04/14 17:48:60 WR Requested RECALL 2022/04/14 18:09:44 Per Debbie RECALL 2022/04/14 18:09:44 Per Debbie RECALL 2022/04/15 11:38:13 SCR-04 2022/04/26 16:40:06 Per Reggie RECALL 2022/04/14 18:19:33 For Reggie RECALL 2022/04/14 18:18:09 Per David RECALL 2022/04/14 18:18:09 Per David RECALL 2022/04/14 16:45:14 per dave RECALL 2022/04/25 11:35:34 SCR-04 2022/04/25 11:35:35 SCR-04 2022/04/25 11:35:31 RECALL 2022/04/14 18:01:52 Per Dave SCR-04 2022/04/05 13:57:45 Spoke to Dave RECALL 2022/04/14 18:01:52 Per Dave SCR-04 2022/04/26 13:35:31 RECALL 2022/04/14 17:00:54 LM requestd WR RECLL2 2022/04/26 13:35:31 RECALL 2022/04/14 17:00:54 LM requestd WR RECALL 2022/04/14 17:00:54 LM requestd WR RECALL 2022/04/14 17:00:54 LM requestd WR RECALL 2022/04/14 18:07:11 requested wr RECALL 2022/04/14 18:07:11 requested wr RECALL 2022/04/14 18:07:11 requested wr RECALL 2022/04/14 16:07:11 requested wr RECALL 2022/04/25 16:38:11 Req WR in msg	requested wr Replied 4/5 PAGE 4 Call Comment 2 Replied 4/5 WR Rec'd 4/15 will send WR Replied 4/15 Requested removal Will not give WR will send WR Sent Req. for WR do not subcontract No Subwrk-Req WR RequestedWrittenResp Sent Req. for WR Have not looked @ it requested wr Refuses to give WR Sent Req. for WR RequestedWrittenResp Sent Req. for WR
3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 9 - Not Bidding 04/26/22 17:47:16 Final Disposition 3 - Not Bidding	561730 561730 561730 561730 561730 561730 561730 561730 5617310 5617	Landscaping Services Landscaping Services Landscaping Services Electrical Contractors & Other Division Description Water & Sewer Line & Related S Poured Concrete Foundation & S Poured Concrete Foundation & S Poured Concrete Foundation & S Water & Sewer Line & Related S Water & Sewer Line & Related S Water & Sewer Line & Related S Water & Sewer Line & Bridge Cons Highway, Street, & Bridge Cons Highwa	MERINO LANDSCAPE INC MERINO LANDSCAPE INC 00406492 SUTHERLIN CONTRACTING INC Entity# Entity Name 00486937 SALZANO ENGINEERING INC 00487031 CONCRETE BUILDING SYSTEMS CONS CONCRETE BUILDING SYSTEMS CONS CONCRETE BUILDING SYSTEMS CONS Valley CM Inc DBA Valley Const O0643670 Ambrit Services Inc Ambrit Services Inc Ambrit Services Inc Ambrit Services Inc O1595032 Hankins Construction Inc Hankins Construction Inc Hankins Construction Inc CTE INC CTE INC CTE INC CTE INC O1918530 David H. Knight DBA Knight Pow David H. Knight DB	Lft Msg on VM Yes, received invitation Lft Msg on VM Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Call Response 1 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Not sure if received Lft Msg on VM Lft 2nd Msg on VM Yes, received invitation Not sure of int in bid Yes, received invitation Not sure of int in bid Yes, received invitation Not sure of int in bid Yes, received invitation Not sure of int in bid Yes, received invitation Not sure of int in bid Yes, received invitation Not sure of int in bid Not interested; not union Not sure if recvd; email Not interested; not union Not sure if recvd; email Not interested; not union Not sure if recvd; email Not interested; not union Not sure of int in bid Not interested; not union Not sure of int in bid Not interested; not union Not sure if recvd; email Not interested; not union Not sure of int in bid Not interested; not union Not sure of int in bid Not interested; not union Not sure of int in bid Not interested; not union Not sure of int in bid Not interested; not union Not sure of int in bid Not interested	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/14 17:33:54 per chris RECLL2 2022/04/25 11:48:15 SCR-04 2022/04/05 13:14:05 Per Kristi Script Date Time Called SCR-04 2022/04/05 13:43:35 Per Felicia SCR-04 2022/04/05 12:22:49 Spoke to Ty Jones RECALL 2022/04/14 18:21:45 For Ty Jones RECALL 2022/04/14 18:21:45 For Ty Jones RECALL 2022/04/05 13:31:33 Spoke to Galina RECALL 2022/04/14 12:00:34 Per Galina RECALL 2022/04/14 12:00:34 Per Galina RECALL 2022/04/14 12:526 SCR-04 2022/04/14 17:48:50 SCR-04 2022/04/14 17:48:06 WR Requested RECLL2 2022/04/14 17:48:06 WR Requested RECLL2 2022/04/14 18:09:48 Per Chris SCR-04 2022/04/05 13:25:12 Per Debbie RECALL 2022/04/14 18:09:44 Per Debbie RECALL 2022/04/14 18:19:33 For Reggie RECALL 2022/04/14 18:19:34 Spoke to David RECALL 2022/04/14 18:18:09 Per David RECALL 2022/04/15 11:35:34 SCR-04 2022/04/15 11:35:34 SCR-04 2022/04/16 18:18:09 Per David RECALL 2022/04/17 18:18:09 Per Dave RECALL 2022/04/18 18:18:09 Per Dave RECALL 2022/04/18 18:18:09 Per Dave RECALL 2022/04/18 18:18:09 Per Dave RECALL 2022/04/14 18:19:35 Spoke to Dave RECALL 2022/04/15 11:35:34 SCR-04 2022/04/05 13:55:31 RECALL 2022/04/16 13:55:31 RECALL 2022/04/17 17:00:54 LM requestd WR RECALL 2022/04/14 17:00:54 LM requestd WR RECALL 2022/04/14 18:07:11 requested wr	requested wr Replied 4/5 PAGE 4 Call Comment 2 Replied 4/5 WR Rec'd 4/15 will send WR Replied 4/15 Requested removal Will not give WR will send WR Sent Req. for WR do not subcontract No Subwrk-Req WR RequestedWrittenResp Sent Req. for WR Have not looked @ it requested wr Refuses to give WR Sent Req. for WR RequestedWrittenResp
3 - Not Bidding 3 - Not Bidding 3 - Not Bidding 9 - Not Bidding 04/26/22 17:47:16 Final Disposition 3 - Not Bidding	561730 561730 561730 561730 561730 561730 561730 561730 5617310 5617	Landscaping Services Landscaping Services Landscaping Services Electrical Contractors & Other Division Description Water & Sewer Line & Related S Poured Concrete Foundation & S Poured Concrete Foundation & S Poured Concrete Foundation & S Water & Sewer Line & Related S Water & Sewer Line & Related S Water & Sewer Line & Related S Water & Sewer Line & Bridge Cons Highway, Street, & Bridge Cons Highwa	MERINO LANDSCAPE INC MERINO LANDSCAPE INC 00406492 SUTHERLIN CONTRACTING INC Entity# Entity Name 00486937 SALZANO ENGINEERING INC 00487031 CONCRETE BUILDING SYSTEMS CONS CONCRETE BUILDING SYSTEMS CONS CONCRETE BUILDING SYSTEMS CONS Valley CM Inc DBA Valley Const O0643670 Ambrit Services Inc Ambrit Services Inc Ambrit Services Inc Ambrit Services Inc O1595032 Hankins Construction Inc Hankins Construction Inc Hankins Construction Inc CTE INC CTE INC CTE INC CTE INC O1918530 David H. Knight DBA Knight Pow David H. Knight DB	Lft Msg on VM Yes, received invitation Call Response 1 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Call Response 1 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Not sure if received Calf Msg on VM Calf Msg on VM Calf Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Calf Msg on VM Calf Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Calf Msg on VM Calf Yes, received invitation Call Response 2 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Calf Msg on VM Calf Yes, received invitation Calf Response 2 Yes, rcvd ITB/Emaild Resp No/Not Bidding Resp Rcvd Not interested Calf Msg on VM Yes, received invitation Calf Response 2 Yes, No/Not Bidding Resp Rcvd Not interested Not i	SCR-04 2022/04/05 14:01:16 RECALL 2022/04/14 17:33:54 per chris RECLL2 2022/04/25 11:48:15 SCR-04 2022/04/05 13:14:05 Per Kristi Script Date Time Called SCR-04 2022/04/05 13:43:35 Per Felicia SCR-04 2022/04/05 12:22:49 Spoke to Ty Jones RECALL 2022/04/14 18:21:45 For Ty Jones RECALL 2022/04/14 18:21:45 For Ty Jones RECALL 2022/04/26 16:37:57 For Ty SCR-04 2022/04/26 16:37:57 For Ty SCR-04 2022/04/26 11:33:33 Spoke to Galina RECALL 2022/04/14 12:00:34 Per Galina RECALL 2022/04/14 12:00:34 Per Galina RECALL 2022/04/14 17:48:52 SCR-04 2022/04/14 17:48:50 WR Requested RECALL 2022/04/14 17:48:60 WR Requested RECALL 2022/04/14 18:09:44 Per Debbie RECALL 2022/04/14 18:09:44 Per Debbie RECALL 2022/04/15 11:38:13 SCR-04 2022/04/26 16:40:06 Per Reggie RECALL 2022/04/14 18:19:33 For Reggie RECALL 2022/04/14 18:18:09 Per David RECALL 2022/04/14 18:18:09 Per David RECALL 2022/04/14 16:45:14 per dave RECALL 2022/04/25 11:35:34 SCR-04 2022/04/25 11:35:35 SCR-04 2022/04/25 11:35:31 RECALL 2022/04/14 18:01:52 Per Dave SCR-04 2022/04/05 13:57:45 Spoke to Dave RECALL 2022/04/14 18:01:52 Per Dave SCR-04 2022/04/26 13:35:31 RECALL 2022/04/14 17:00:54 LM requestd WR RECLL2 2022/04/26 13:35:31 RECALL 2022/04/14 17:00:54 LM requestd WR RECALL 2022/04/14 17:00:54 LM requestd WR RECALL 2022/04/14 17:00:54 LM requestd WR RECALL 2022/04/14 18:07:11 requested wr RECALL 2022/04/14 18:07:11 requested wr RECALL 2022/04/14 18:07:11 requested wr RECALL 2022/04/14 16:07:11 requested wr RECALL 2022/04/25 16:38:11 Req WR in msg	requested wr Replied 4/5 PAGE 4 Call Comment 2 Replied 4/5 WR Rec'd 4/15 will send WR Replied 4/15 Requested removal Will not give WR will send WR Sent Req. for WR do not subcontract No Subwrk-Req WR RequestedWrittenResp Sent Req. for WR Have not looked @ it requested wr Refuses to give WR Sent Req. for WR RequestedWrittenResp Sent Req. for WR

3 - Not Bidding	237110	N Water & Sewer Line & Related S		Jon Kay dba Kay Construction C			RECALL 2022/04/14 17:40:06	requested wr
<pre>3 - Not Bidding 3 - Not Bidding</pre>	237110 238990	N Water & Sewer Line & Related S N All Other Specialty Trade Cont		Jon Kay dba Kay Construction C	L res, received invitation Lft Msg on VM	n No, we will not bid	RECLL2 2022/04/26 13:51:49 Spoke to Amy SCR-04 2022/04/05 13:56:16 for Jose	RequestedWrittenResp
3 - Not Bidding	238990	N All Other Specialty Trade Cont		Montano Pipeline Inc	Not sure if received	Not sure of int in bid	RECALL 2022/04/14 17:36:51 Per Dan wl chk emai	il requested wr
3 - Not Bidding	238990	N All Other Specialty Trade Cont		Montano Pipeline Inc		sp No/Not Bidding Resp Rcvd	RECLL2 2022/04/26 17:04:32 Per Dan	Replied 4/26
3 - Not Bidding	237110	N Water & Sewer Line & Related S					SCR-04 2022/04/04 13:02:37	•
3 - Not Bidding	237110	N Water & Sewer Line & Related S		Blue Swell Construction Manage			RECALL 2022/04/14 17:55:10 resent itb	requested wr
3 - Not Bidding	237110	N Water & Sewer Line & Related S		Blue Swell Construction Manage			RECLL2 2022/04/26 11:30:58 Spoke to Laurie	RequestedWrittenResp
3 - Not Bidding	238210	N Electrical Contractors & Other		AXL Group INC AXL Group INC	Yes, received invitation		SCR-04 2022/04/04 12:57:12 Spoke to John	Re WR 4/15
<pre>3 - Not Bidding 3 - Not Bidding</pre>	238210 238210	N Electrical Contractors & Other N Electrical Contractors & Other		AXL Group INC	Yes, received invitation Yes, received invitation		RECALL 2022/04/14 18:08:22 RECLL2 2022/04/25 11:47:21	Req For WR Sent 4/25
3 - Not Bidding	561730	N Landscaping Services		Cielo Azul Inc DBA Cielo Azul			SCR-04 2022/04/04 13:48:30 spoke to Pedro	RequestedWrittenResp
3 - Not Bidding	561730	N Landscaping Services	0200.200	Cielo Azul Inc DBA Cielo Azul		out or, scope or norm	RECALL 2022/04/14 17:50:11 WR Reg. from Pedro	meques roum in remosp
3 - Not Bidding	561730	N Landscaping Services		Cielo Azul Inc DBA Cielo Azul	l Yes, received invitation	n Out of my scope of work	RECLL2 2022/04/25 17:23:58	LM Req WR from Pedro
3 - Not Bidding	561730	N Landscaping Services	02004284	Coastal Tree Care INC	Yes, received invitation	n Not interested	SCR-04 2022/04/05 11:55:27 Spoke to Sarah	RequestedWrittenResp
3 - Not Bidding	561730	N Landscaping Services		Coastal Tree Care INC	Lft Msg on VM		RECALL 2022/04/14 18:24:29 For Sarah-WR Req	
3 - Not Bidding	561730	N Landscaping Services	00460420	Coastal Tree Care INC	Lft 2nd Msg on VM	. Vas/intanatad in hiddina	RECLL2 2022/04/25 17:32:19 For Sarah WR req'd	
4 - Yes - Bidding 4 - Yes - Bidding	237110 237110	N Water & Sewer Line & Related S N Water & Sewer Line & Related S		WHITSON CONTRACTING & MANAGEME WHITSON CONTRACTING & MANAGEME		n restinterested in bidding	SCR-04 2022/04/04 12:18:46 Spoke to Matt RECALL 2022/04/14 11:45:31 WR Requested	
4 - Yes - Bidding	237110	N Water & Sewer Line & Related S				sn Yes/Bidding Response Royc	RECLL2 2022/04/14 11:45.31 WK Requested RECLL2 2022/04/25 16:04:22 Per Mitch	Replied 4/25
4 - Yes - Bidding	237310	N Highway, Street, & Bridge Cons		MILLER PAVING CORP			SCR-04 2022/04/04 12:25:13 Per John Moore	Replied 4/1
4 - Yes - Bidding	237110	N Water & Sewer Line & Related S		AHRENS MECHANICAL			I SCR-04 2022/04/04 12:52:27 Spk to Nancy, Reser	
5 - Unsure	238210	N Electrical Contractors & Other				n Not sure of int in bid	SCR-04 2022/04/04 12:04:28 spoke to Anthony	he does electrical
5 – Unsure	238210	N Electrical Contractors & Other		BUESCHER ELECTRIC INC		n Not sure of int in bid	RECALL 2022/04/14 16:47:07	requested wr
5 - Unsure	238210	N Electrical Contractors & Other		BUESCHER ELECTRIC INC	Lft Msg on VM		RECLL2 2022/04/25 16:38:14 For Anthony	
5 – Unsure 5 – Unsure	237310 237310	N Highway, Street, & Bridge Cons N Highway, Street, & Bridge Cons	00119146	NEW CENTURY CONSTRUCTION INC	Lft msg Not sure if received	Not sure of int in bid	SCR-04 2022/04/05 14:00:10 w receptionist 4 le RECALL 2022/04/14 17:24:18 per recep	requested wr frm lee
5 - Unsure	237310	N Highway, Street, & Bridge Cons		NEW CENTURY CONSTRUCTION INC	Lft Msg on VM	NOT Sufe of the th bid	RECLL2 2022/04/14 17:24:18 per recep RECLL2 2022/04/25 16:34:02 For Lee – Reg WR	requested wi iiii tee
5 - Unsure	237310	N Highway, Street, & Bridge Cons				l Not sure of int in bid	SCR-04 2022/04/05 13:47:12 per rebe	resent itb
5 - Unsure	237310	N Highway, Street, & Bridge Cons		PAYCO SPECIALTIES INC	Not sure if received	Not sure of int in bid	RECALL 2022/04/14 16:57:27 per Reb	requested WR
5 – Unsure	237310	N Highway, Street, & Bridge Cons		PAYCO SPECIALTIES INC	Lft 3rd Msg on VM		RECLL2 2022/04/25 14:44:25 lm for reb rqstd wi	•
5 – Unsure	561730	N Landscaping Services	00223081	TIERRA DATA INC	Lft Msg on VM		SCR-04 2022/04/05 13:22:39	
5 - Unsure	561730	N Landscaping Services		TIERRA DATA INC	Lft 2nd Msg on VM	Not some of the to bid	RECALL 2022/04/14 11:56:48 LM Requested WR	Daniel de Maria de la composición del composición de la composición del composición de la composición del composición del composición del composición de la composición del composición del composición del composición del composic
5 - Unsure	561730 561990	N Landscaping Services	00207202	TIERRA DATA INC	Did not receive	Not sure of int in bid	RECLL2 2022/04/26 12:49:07 Spoke to Chelsea SCR-04 2022/04/04 12:43:10 Spoke Richard Reser	RequestedWrittenResp
5 – Unsure 5 – Unsure	561990	N All Other Support Services N All Other Support Services	00307202	ACME SAFETY & SUPPLY CORP ACME SAFETY & SUPPLY CORP	Lft 2nd Msg on VM	.l Not sure of int in bid	RECALL 2022/04/14 18:06:42 requested wr	id Resent to new emait
5 - Unsure	561990	N All Other Support Services		ACME SAFETY & SUPPLY CORP		n Not sure of int in bid	RECLL2 2022/04/14 10:00:42 requested wi	
5 – Unsure	561730	N Landscaping Services	00442177	Good Earth Living Architecture			SCR-04 2022/04/05 13:24:13 Spoke to Erin	RequestedWrittenResp
5 - Unsure	561730	N Landscaping Services		Good Earth Living Architecture			RECALL 2022/04/14 17:49:12 per er	requested wr
5 – Unsure	561730	N Landscaping Services		Good Earth Living Architecture			RECLL2 2022/04/26 17:12:04 For Jim-Req'd WR	
5 – Unsure	561730	N Landscaping Services	00643248	IO Environmental & Infrastruct		Not sure of int in bid	SCR-04 2022/04/05 13:09:58 per Dennis	will send WR nd 2 RV
5 - Unsure	561730	N Landscaping Services	00643340	IO Environmental & Infrastruct		sp Not sure of int in bid	RECALL 2022/04/14 17:45:54 Per Den	requested wr
5 – Unsure 5 – Unsure	561730 237310	N Landscaping Services N Highway, Street, & Bridge Cons		IO Environmental & Infrastruct		l Not sure of int in bid	RECLL2 2022/04/25 16:38:23 For Dennis SCR-04 2022/04/05 13:01:43 Spoke to Jeanette	RequestedWrittenResp
5 - Unsure	237310	N Highway, Street, & Bridge Cons		Frank and Son Paving INC		n Not sure of int in bid	RECALL 2022/04/14 17:43:10 per Jen	requested wr
5 - Unsure	237310	N Highway, Street, & Bridge Cons		Frank and Son Paving INC		n Not sure of int in bid	RECLL2 2022/04/26 17:06:44	Requested WR
5 - Unsure	561730	N Landscaping Services		Westturf Landscape Management			SCR-04 2022/04/05 13:34:39	- 1
5 – Unsure	561730	N Landscaping Services		Westturf Landscape Management		l Not sure of int in bid	RECALL 2022/04/14 12:01:49 resent itb	
5 – Unsure	561730	N Landscaping Services					RECLL2 2022/04/26 13:32:13 RequestedWrittenRes	SP .
5 - Unsure	237110	N Water & Sewer Line & Related S				.l Not sure of int in bid	SCR-04 2022/04/04 12:23:51 Resent to Bill	
5 - Unsure	237110 237110	N Water & Sewer Line & Related S N Water & Sewer Line & Related S		WG CONSTRUCTION INC WG CONSTRUCTION INC	Not sure if received	Not sure of int in bid	RECALL 2022/04/14 11:47:03 WR Requested RECLL2 2022/04/25 15:55:17 For Bill Req WR	
5 – Unsure 5 – Unsure	561990	N All Other Support Services		CECILIA'S SAFETY SERVICE INC	Lft Msg on VM Lft Msg on VM		SCR-04 2022/04/23 13:35:17 FOT BILL REQ WR	
5 - Unsure	561990	N All Other Support Services	01000024	CECILIA'S SAFETY SERVICE INC	Not sure if received	Not sure of int in bid	RECALL 2022/04/14 18:05:09 requested wr	will send email
5 - Unsure	561990	N All Other Support Services		CECILIA'S SAFETY SERVICE INC	Lft 2nd Msg on VM		RECLL2 2022/04/26 15:54:26 Reg'd WR in msg	
5 – Unsure	237310	N Highway, Street, & Bridge Cons	01615435	AB HASHMI INC	Yes, received invitation	n Not sure of int in bid	SCR-04 2022/04/04 12:17:33 Spoke to Ahmad	have not looked @ it
5 – Unsure	237310	N Highway, Street, & Bridge Cons		AB HASHMI INC		n Not sure of int in bid	RECALL 2022/04/14 16:46:07 Per ah	requested WR
5 – Unsure	237310	N Highway, Street, & Bridge Cons		AB HASHMI INC		n Not sure of int in bid	RECLL2 2022/04/25 16:14:18 Per Ahmad	still not sure
5 - Unsure	561730	N Landscaping Services	01669052	COAST LANDSCAPING INC		.l Not sure of int in bid	SCR-04 2022/04/05 12:13:53 Spoke to Tyler	RequestedWrittenResp
5 – Unsure 5 – Unsure	561730 561730	N Landscaping Services N Landscaping Services		COAST LANDSCAPING INC	Lft Msg on VM	n Not sure of int in bid	RECALL 2022/04/14 18:06:06 per tyler RECLL2 2022/04/26 16:53:10 For Tyler	requested wr
5 - Unsure	238110	N Poured Concrete Foundation & S	01669319		Lft Msg on VM		SCR-04 2022/04/05 14:03:29 for Vanessa	
5 – Unsure	238110	N Poured Concrete Foundation & S		QSB CONSTRUCTION	Lft 2nd Msg on VM		RECALL 2022/04/14 17:14:52 requested wr	
5 - Unsure	238110	N Poured Concrete Foundation & S		QSB CONSTRUCTION		n Not sure of int in bid	RECLL2 2022/04/26 13:40:22 Spoke to Robert	RequestedWrittenResp
5 – Unsure	238990	N All Other Specialty Trade Cont			Cannot Process		SCR-04 2022/04/05 12:35:18 busy signal only	
5 – Unsure	238990	N All Other Specialty Trade Cont		DLG Contractors Inc		n Not sure of int in bid	RECALL 2022/04/15 12:28:48 Spoke to Bryan	Rec fr:SUK/reviewing
5 - Unsure	238990	N All Other Specialty Trade Cont		DLG Contractors Inc	Lft Msg on VM	a. National of the to bid	RECLL2 2022/04/25 16:33:48 For Bryam	Daniel de Maria de la composición dela composición de la composición dela composición dela composición dela composición de la composición dela composición de la composición de la composición dela composi
5 - Unsure	444190	N Other Building Material Dealer N Other Building Material Dealer				n Not sure of int in bid	SCR-04 2022/04/04 14:13:56 Spoke to Clark RECALL 2022/04/14 17:51:54 requested wr	RequestedWrittenResp
5 – Unsure 5 – Unsure	444190 444190	N Other Building Material Dealer		INDUSTRIAL MAINTENANCE SUPPLY INDUSTRIAL MAINTENANCE SUPPLY		n Not sure of int in bid n Not sure of int in bid	RECLL2 2022/04/14 17:51:54 requested wr RECLL2 2022/04/25 16:33:45	will send email Clark will reply
5 - Unsure	561730	N Landscaping Services		LC Tree Service Inc	Not sure if received	Not sure of int in bid	SCR-04 2022/04/05 13:33:17 w/ phoebe for Larry	
5 - Unsure	561730	N Landscaping Services		LC Tree Service Inc	Not sure if received	Not sure of int in bid	RECALL 2022/04/14 17:35:22 per phoebe	requested wr frm lar
5 - Unsure	561730	N Landscaping Services		LC Tree Service Inc	Not sure if recvd; ema:	l Not sure of int in bid	RECLL2 2022/04/26 17:19:30 Sent to Larry	Req'd WR
5 - Unsure	237310	N Highway, Street, & Bridge Cons			Not sure if received	Not sure of int in bid	SCR-04 2022/04/05 14:04:21 per Cra	req WR
5 - Unsure	237310	N Highway, Street, & Bridge Cons		PIPERIN CORP	Lft 2nd Msg on VM	1. Not ours of int in this	RECALL 2022/04/14 12:12:51 Requested WR	
5 - Unsure	237310	N Highway, Street, & Bridge Cons		PIPERIN CORP		.l Not sure of int in bid	RECLL2 2022/04/25 17:10:11 Resent to Craig	recent ith
5 – Unsure 5 – Unsure	238110 238110	N Poured Concrete Foundation & S N Poured Concrete Foundation & S		HSCC INC		I Not sure of int in bid IN Not sure of int in bid	SCR-04 2022/04/05 11:56:48 per Monique RECALL 2022/04/14 17:38:24 per moni	resent itb requested wr
5 - Unsure	238110	N Poured Concrete Foundation & S		HSCC INC	Lft Msg on VM	NOT SUITE OF THE THE DIG	RECLL2 2022/04/14 17:30:24 per moni RECLL2 2022/04/26 17:09:47 For MoniReg wr	. equested wi
5 - Unsure	238210	N Electrical Contractors & Other				n No, we will not bid	SCR-04 2022/04/05 13:07:29	Req for WR sent 4/15
5 – Unsure	238210	N Electrical Contractors & Other		SOUTHWEST TRAFFIC SIGNAL SERVI		,	RECALL 2022/04/14 11:45:08 WR Requested	•
							·	

5 – Unsure	238210		Electrical Contractors & Other		SOUTHWEST TRAFFIC SIGNAL SERVI		Not sure of int in bid	RECLL2 2022/04/26 12:19:06 Spoke to Alexis	RequestedWrittenResp
5 – Unsure	238210	N E	Electrical Contractors & Other	01935039	H+W Engineering INC	Lft Msg on VM		SCR-04 2022/04/05 13:24:50 also stated we nd WF	₹
5 – Unsure	238210		Electrical Contractors & Other			Not sure if recvd; email	Not sure of int in bid	RECALL 2022/04/14 17:50:18 requestd wr	resent itb
5 – Unsure	238210	N E	Electrical Contractors & Other		H+W Engineering INC	Lft Msg on VM		RECLL2 2022/04/26 17:10:51 For Bryan-Req'd WR	
5 – Unsure	444190	N 0	Other Building Material Dealer	01935362	J&E SoCal Supply	Not sure if received	Not sure of int in bid	SCR-04 2022/04/05 11:53:56 Per John will cb	
5 – Unsure	444190	N O	Other Building Material Dealer		J&E SoCal Supply	Lft 2nd Msg on VM		RECALL 2022/04/14 17:43:46 lm requested wr	
5 – Unsure	444190		Other Building Material Dealer			Not sure if recvd; email	Not sure of int in bid	RECLL2 2022/04/25 16:56:19 Resent to John-Paul	
5 – Unsure	238990			01935498	Chris Marguart DBA Code 3 Medi			SCR-04 2022/04/04 13:30:00	
5 – Unsure	238990		All Other Specialty Trade Cont		Chris Marquart DBA Code 3 Medi		Not sure of int in bid	RECALL 2022/04/14 17:57:34 requested wr	will send email by
5 – Unsure	238990		All Other Specialty Trade Cont		Chris Marquart DBA Code 3 Medi			RECLL2 2022/04/25 17:22:47 Req WR in msg	
5 - Unsure	238210		Electrical Contractors & Other	01953546		Lft Msg on VM		SCR-04 2022/04/05 12:37:52 for Gerry	
5 - Unsure	238210		Electrical Contractors & Other	01333310		Not sure if received	Not sure of int in bid	RECALL 2022/04/14 17:39:07 per Ger	requested wr
5 - Unsure	238210		Electrical Contractors & Other			Not sure if recvd; email		RECLL2 2022/04/26 16:52:13 Resent to Gerry	requested wi
5 - Unsure	561730		andscaping Services	0105/030	Makelele Systems Landscape and		Not sure of int in bid	SCR-04 2022/04/05 13:35:10 Per Pep	stated nd WR
5 - Unsure	561730		andscaping Services	01334030	Makelele Systems Landscape and		Not sure of int in bid	RECALL 2022/04/14 17:37:30 requested wr	will send email
5 - Unsure	561730		andscaping Services		Makelele Systems Landscape and			RECLL2 2022/04/14 17:37:36 requested wi	witt send emait
5 - Unsure	237310		lighway, Street, & Bridge Cons	01050217		Lft Msg on VM	NOT Sufe of the thin bid	SCR-04 2022/04/25 13:12:37 stated nd WR	
5 - Unsure	237310		lighway, Street, & Bridge Cons	01930217		Not sure if recvd; email	Not sure of int in hid	RECALL 2022/04/03 13:12:37 Stated III WK	requested wr
							NOT Sufe of the things		requested wi
5 - Unsure	237310		lighway, Street, & Bridge Cons	01062010		Lft 2nd Msg on VM	Nat ama af int in hid	RECLL2 2022/04/26 17:16:13 Req'd WR in msg	Danisatadulaittan Dani
5 - Unsure	237110		Water & Sewer Line & Related S	01903810		Yes, received invitation	Not sure of int in bid	SCR-04 2022/04/04 13:55:20 Spoke to Robert	RequestedWrittenResp
5 - Unsure	237110		Nater & Sewer Line & Related S		Cityscape Services LLC	Lft 2nd Msg on VM		RECALL 2022/04/14 15:15:24 LM requested WR	
5 - Unsure	237110		Vater & Sewer Line & Related S	04063030	Cityscape Services LLC	Lft 3rd Msg on VM		RECLL2 2022/04/25 17:29:15 For Robert-Req WR	
5 - Unsure	238990			01963828	Quality Construction & Enginee			SCR-04 2022/04/05 13:55:28 for Mohammad	
5 – Unsure	238990		All Other Specialty Trade Cont		Quality Construction & Enginee		Not sure of int in bid	RECALL 2022/04/14 17:06:47 Per Mo resent itb	requested WR
5 – Unsure	238990		All Other Specialty Trade Cont		Quality Construction & Enginee			RECLL2 2022/04/26 13:42:33 RequestedWrittenResp)
5 – Unsure	561730		andscaping Services	01968162	UNITED GENERAL CONSTRUCTION IN			SCR-04 2022/04/05 13:31:13	
5 – Unsure	561730		andscaping Services		UNITED GENERAL CONSTRUCTION IN			RECALL 2022/04/14 11:46:01 LM WR Requested	
5 – Unsure	561730		andscaping Services		UNITED GENERAL CONSTRUCTION IN	Not sure if received	Not sure of int in bid	RECLL2 2022/04/26 13:11:11 Spoke To Chris	RquestedWritteneResp
5 – Unsure	237310	N H	Highway, Street, & Bridge Cons	01968709	3Sixty Innovation inc	Not sure if received	Not sure of int in bid	SCR-04 2022/04/04 11:48:03 LM For Bill	Will Cjeck email
5 – Unsure	237310	N H	Highway, Street, & Bridge Cons		3Sixty Innovation inc	Not sure if recvd; email	Not sure of int in bid	RECALL 2022/04/14 11:42:21	requested WR
5 – Unsure	237310	N H	Highway, Street, & Bridge Cons		3Sixty Innovation inc	Lft Msg on VM		RECLL2 2022/04/25 16:56:25 For Mike	
5 – Unsure	237310	N H	Highway, Street, & Bridge Cons	01975246	Ocean Paving & Sealing	Yes, received invitation	Not sure of int in bid	SCR-04 2022/04/04 13:31:57 Spoke to Chris	RequestedWrittenResp
5 – Unsure	237310	N H	Highway, Street, & Bridge Cons		Ocean Paving & Sealing	Yes, received invitation	Not sure of int in bid	RECALL 2022/04/14 17:58:48 requested wr	not sure if bidding
5 – Unsure	237310	N H	Highway, Street, & Bridge Cons		Ocean Paving & Sealing	Yes, received invitation	Not sure of int in bid	RECLL2 2022/04/25 16:46:07 LM For Chris	Chris will reply
5 - Unsure	561730	N L	andscaping Services	01977206	Terra Group Landscape L.L.C.	Yes, received invitation	Not sure of int in bid	SCR-04 2022/04/05 13:19:20 Will check with team	n
5 - Unsure	561730		andscaping Services		Terra Group Landscape L.L.C.	Yes, received invitation	Not sure of int in bid	RECALL 2022/04/14 11:56:15 will send WR	
5 - Unsure	561730		andscaping Services	01977206		Yes, received invitation		RECLL2 2022/04/26 12:38:42 Spoke to Abner	RequestedWrittenResp
5 – Unsure	238990		All Other Specialty Trade Cont			Lft Msg on VM		SCR-04 2022/04/05 13:37:47	1
5 – Unsure	238990		All Other Specialty Trade Cont		Western State Builders	Lft 2nd Msg on VM		RECALL 2022/04/14 12:01:00 LM	
5 – Unsure	238990		All Other Specialty Trade Cont			Did not receive	Not sure of int in bid	RECLL2 2022/04/26 13:30:04 Spoke to Julien	RequestedWrittenResp
5 – Unsure	238110		Poured Concrete Foundation & S	01978339		Not sure if recvd; email		SCR-04 2022/04/04 13:10:27 spoke to Enrique	Resent invitation
5 – Unsure	238110		Poured Concrete Foundation & S		BRINO BUILDERS INC	Yes, received invitation		RECALL 2022/04/14 16:53:14 per Enriq	requested wr
5 - Unsure	238110		Poured Concrete Foundation & S		BRINO BUILDERS INC	Yes, received invitation		RECLL2 2022/04/25 16:33:52 LM For Enrique	4
5 - Unsure	238110		Poured Concrete Foundation & S	01979319		Lft msg	Said of the th bid	SCR-04 2022/04/04 13:13:14 spoke to Shauna	
5 - Unsure	238110		Poured Concrete Foundation & S	323.3323	BC3 Equipment Inc	Lft 2nd Msg on VM		RECALL 2022/04/14 18:12:00 requested wr	
5 - Unsure	238110		Poured Concrete Foundation & S		BC3 Equipment Inc	Yes, received invitation	Not sure of int in hid	RECLL2 2022/04/26 11:34:18 Spoke To Shauna	RequestedWrittenResp
5 - Unsure	238210		Electrical Contractors & Other	02000441		Not sure if received	Not sure of int in bid	SCR-04 2022/04/05 13:25:31 LM for Samuel	ques count i c contesp
5 - Unsure	238210		Electrical Contractors & Other	32000441		Not sure if received	Not sure of int in bid	RECALL 2022/04/14 12:10:38 Requested WR	
5 - Unsure	238210		Electrical Contractors & Other			Lft 3rd msg	NOT SUITE OF THE THE DIG	RECLL2 2022/04/26 11:52:34 Left message	
5 - Unsure	561730		andscaping Services	02004245		Lft Msg on VM		SCR-04 2022/04/05 13:27:19 stated we nd WR	
	561730			02004243		Not sure if recvd; email	Not sure of int in hid	RECALL 2022/04/03 13:27:19 Stated we ha wa	requested ur
5 – Unsure 5 – Unsure	561730		andscaping Services andscaping Services			Lft 2nd Msg on VM	MOT ZOIG OF THE TH DIO	RECLL2 2022/04/14 17:17:09 resent 1tb RECLL2 2022/04/26 17:13:02 For Kevin – Reg'd WF	requested wr
				02004247			Not sure of int in hid		
5 - Unsure	238110			02004247	Entenman Development Group INC		NOT Sure of the the DIO	SCR-04 2022/04/05 12:53:14 spoke to Christina	RequestedWrittenResp
5 - Unsure	238110		Poured Concrete Foundation & S		Entenman Development Group INC			RECALL 2022/04/14 17:40:51 LM requested wr	
5 - Unsure	238110		Poured Concrete Foundation & S	02004254	Entenman Development Group INC			RECLL2 2022/04/26 17:03:14 Req'd WR in msg	
5 - Unsure	238210		Electrical Contractors & Other	02004251		Lft Msg on VM		SCR-04 2022/04/05 13:46:43	
5 - Unsure	238210		Electrical Contractors & Other			Not sure if recvd; email		RECALL 2022/04/14 12:14:55 resent itb	requested wr
5 - Unsure	238210		Electrical Contractors & Other	000040		Not sure if received	Not sure of int in bid	RECLL2 2022/04/26 11:45:48 Spoke to Kristy	RequestedWrittenResp
5 - Unsure	238210		Electrical Contractors & Other	02004252		Not sure if recvd; email		SCR-04 2022/04/04 12:16:42 Resent to Rebecca	
5 - Unsure	238210		Electrical Contractors & Other		Xpedient Communication INC	Yes, received invitation		RECALL 2022/04/14 11:44:09 Per Rebecca	reviewing wil snd WR
5 - Unsure	238210		Electrical Contractors & Other		Xpedient Communication INC	Yes, received invitation	Not sure of int in bid	RECLL2 2022/04/25 16:50:28 Per Rebecca	Will reply to email
* * * E N D 0	F REPOR	i * *	< *						



SUMMARY OF BIDS RECEIVED

Bid Item No.	Company Name	NAICS CODES	Scope of Work	Selected (Y/N)	Bid Amount	SLBE- ELBE	Non- SLBE- ELBE	Explanation for not Selecting	Туре
3; Alt 2	Accent Engineering	238110 238120	Concrete	Y		ELBE		N/A - Selected	Subcontractor
3; Alt 2	Amber Steel Co.	238120	Rebar	Y			X	N/A - Selected	Subcontractor
3; Alt 2	Camblin Steel Co.	238120	Rebar	N			X	Not a full/complete bid	Subcontractor
3	Cosco Fire Protection	238220	Fire Sprinkler	Y			X	N/A - Selected	Subcontractor
3	De La Fuente Construction, Inc.	236220	Furnish & Install Pre-Engineered Metal Building)	Y			X	N/A - Selected	Sub
3	Hankins Construction Inc.	238990	Asphalt Paving	Y		ELBE		N/A - Selected	Subcontractor
3	In-Line Construction, Inc.	237310	Fencing	Y		SLBE		N/A - Selected	Subcontractor
3	K Company	484220	Trucking	Y		ELBE		N/A - Selected	Trucking
3	K Company	237310	Aggregates	Y		ELBE		N/A - Selected	Supplier
3	ONM Environmental Products & Services	238220, 238210, 237990,	Odor Control System/Misting	Y			X	Selected but they are not listed on Sub Sheets due to not being SLBE and not meeting the .5% threshold for listing.	Subcontractor
3	Overhead Door Company of Inland Empire	444190	Overhead Doors	Y		DVBE		N/A - Selected	Subcontractor
10	Rancho Land Company	541990	Survey	Y		SLBE		N/A - Selected	Subcontractor - Professional Service
3	SoCal Stormwater Runoff Solution Services, Inc	541380	SWPPP	Y			X	Selected in bid, but not listed on Sub Sheets due to amount being under .5% and they are not SLBE-ELBE	Subcontractor - Professional Service
3; Alt 2	Suffolk Construction	423610	Electrical	Y			Х	N/A - Selected	Subcontractor
3; Alt 2	Superior Ready Mix Concrete, LP	238110	Concrete	Y			X	N/A - Selected	Supplier
3	Poly Tek	238990	Geosynthetics	Y		DVBE		N/A - Selected	Supplier
4; Alt 3	Sustainable Generation	562219	Bunker System	Y			Х	N/A - Selected	Supplier
3	Hanes Geo	238990	Geosynthetics	N			Х	Not selected because Sukut selected a DVBE to supply the material.	Supplier
3	Isco Industries	423990	Pipeline Supplier	Y				N/A - Selected	Supplier
3	BIOREM	333413	Bio Filtration	Y				N/A - Selected	Supplier
3	Perry Fiberglass Products, Inc	332996	Fiberglass Pipeline Supplier	Y				N/A - Selected	Supplier
3	Core-Rosion	237110	Tank Supplier	Y				N/A - Selected	Supplier

3-4, 8; Alt 2, Alt3	Semper Fuel, LLC	454310	Fuel	Y	SLBE		N/A - Selected	Supplier
2; Alt 1	Tetra Tech BAS	541330	Design	Y			N/A - Selected	Subcontractor
	Zila Stormwater Management & Civil Engineering	541380	SWPPP	N			Not ELBE-SLBE; Sukut selected another sub to perform the work	Subcontractor - Professional Service
3; Alt 2	Robertson's	238110	Concrete	N		I X	Not ELBE-SLBE; Sukut selected another supplier to supply the work	Supplier
3; Alt 2	Cemex	238110	Concrete	N		I X	Not ELBE-SLBE; Sukut selected another supplier to supply the work	Supplier
4	West River River	333922	Conveor	Y			N/A - Selected	Suppler

C2. Copies of all Bids Received



Accent Engineering & Construction Inc.

(619) 790-4503 Office | rthompson@accenteci.com 10679 Westview Parkway, 2nd floor, San Diego CA 92126 CSLB License # 980581

ELBE Certification Number: 13AE0934

Quote#: 22-0429-13

Please reference the Quote number on all correspondence

Proposal Date: April 29, 2022 Submitted to you by: Rod Thompson, (619) 954-4852

rthompson@accenteci.com

This pr	oposal is presented to:					
SUKUT	Corporation	Project:	Miramar Greenery			
	Chandler Ave.	Base:	\$ 3,525,500			
Santa Aı	na CA 92704	Alt:	\$ 3,057,500			
	Malis, Project Engineer	Estimated Start Date:	TBD			
Modile:	714-296-2638	Schedule Duration:	TBD			
		Payment Terms:	Net - 30			
		rayment reims.	Net - 30			
			120-Days after proposal			
	t Engineering and Construction Inc.	, shall provide turnke	y services as follows:			
2	Complete bunker concrete construction Facility pad - *ADD \$558,000					
	Facility pad - *ADD \$558,000					
	All pricing will be revisited prior to contract award.					
EXCLUSION	ONS					
1	Permits					
2	Rebar					
3	No concrete or gypcrete topping on wood deck					
<u>4</u> 5	Structural embeds of any kind Waterproofing and joint sealants of any kind					
6	Payment and performance bonds					
		ty to provide you with our servi	ces!			
Acceptan						
_	g this proposal, you authorize a Notice to Proceed to	Accept Engineering and Constru	ection Inc. hereby			
	and accepting as satisfactory the Terms and Conditio					
	,,		P5			
Accepted a	and Authorized to Proceed this	day of	2022			
	· ,					
By:						
-						
Company		Signature				
Printed Na	nme	Title				

TERMS AND CONDITIONS

- 1. PAYMENTS: Payments shall be made in legal tender of the United States of America. Customer/Owner shall make such arrangements for payment as Contractor shall from time to time reasonably require, and Contractor may suspend production, shipment or delivery until such arrangements are made. Failure by Customer/Owner to make payment in full within the time period set forth on the invoice or within the time period expressly agreed upon in writing by the parties shall constitute a material breach of contract by Customer/owner permitting Contractor to suspend production, shipment or delivery under this or any other contract between Customer/owner and Contractor and, upon such breach, Customer/owner shall pay to Contractor interest at the rate of eighteen percent (18%) per annum on all unpaid amounts owing the Contractor and Contractor shall have, in addition, all other remedies permitted to Contractor by law, equity and this contract. If Contractor takes legal action to collect any amount due hereunder, Customer/owner shall pay all court costs plus reasonable attorney's fees incurred by Contractor in bringing such legal action.
- 2. TAXES: To the extent legally permissible, all present and future taxes imposed by any Federal, state, foreign, or local authority that Contractor may be required to pay or collect, upon or with reference to the sale, purchase, transportation, delivery, storage, use or consumption of goods or services, including taxes upon or measured by the receipts therefrom (except net income and equity franchise taxes), shall be for the account of Customer/owner and shall be payable by Customer/owner and included in amounts owing to Contractor.
- 3. TITLE; INCIDENTAL TRANSPORTATION AND STORAGE CHARGES: Unless otherwise agreed, title to goods and risk of loss shall pass to Customer/owner at the F.O.B. shipping point designated by Contractor. Contractor shall have the right to assess a storage and handling charge for goods left in Contractor's possession after notification to Customer/owner that the goods are available to ship.
- 4. TIME OF SHIPMENT AND SHIPPING: Time is not of the essence as to Contractor's manufacture and shipment obligation only. Each shipment is to be considered a separate sale.
 5. SPECIFICATION VARIATIONS: Except in the particulars specified by Customer/owner expressly agreed to in writing and signed by Contractor, the products furnished hereunder shall be produced in accordance with Contractor's standard practices.
- 6. FORCE MAJEURE; ALLOCATION OF PRODUCTION: In the event either party's performance hereunder is delayed or made impossible or commercially impracticable due to causes such as fire, explosion, strike or other difference with workers, shortage of energy sources, facilities, material or labor, delay or lack of transportation, temporary or permanent plant shutdown, breakdown or accident, compliance with or other action taken to carry out the intent or purpose of any law, regulation, or other requirement of any governmental authority, or any cause beyond that party's reasonable control, that party shall have such additional time within which to perform this contract as may be reasonably necessary under the circumstances. However, the obligation of Customer/owner to pay for goods delivered is never suspended. In addition, if, due to force majeure or any other cause, Contractor is unable to produce sufficient goods to meet all demands from customer/owners and internal uses, Contractor shall have the right to allocate production among its customer/owners and plants in any manner which Contractor may determine to be equitable.
- 7. DEFAULT: Time is of the essence as to Customer/owner's performance of all of its obligations hereunder. Customer/owner shall be in default hereunder if any one or more of the following events occurs: (a) Customer/owner shall default in timely performing or providing any of its obligations to Contractor; (b) a receiver, liquidator or trustee of Customer/owner, or any of its property, is appointed by court order; (c) Customer/owner is adjudicated bankrupt or insolvent; (d) any property of Customer/owner is sequestered by court order; (e) a petition is filed by or against Customer/owner under any bankruptcy, reorganization, dissolution or liquidation law of any jurisdiction; (f) Customer/owner becomes insolvent; or (g) in the event that delivery is dependent on Customer/owner's cooperation, Customer/owner fails to cooperate in effecting delivery at the time agreed upon, or absent such agreement, at the time fixed by Contractor. In the event of any such default all unpaid payments shall, at Contractor's option, become immediately due and payable and Contractor shall have the right to consider its contract with Customer/owner cancelled and to recover damages and shall further have all rights and remedies, including those of a secured party, provided by applicable law. For purposes of this paragraph, "Customer/owner" shall include any corporation, limited liability company, limited or general partnership, or other entity or person controlling, controlled by, or under common control with Customer/owner.
- 8. SECURITY AGREEMENT: To secure all payments by Customer/owner under this Invoice, Customer/owner, hereby grants a security interest in certain assets as more particularly set forth in this Section 8. This Security Agreement is made in order to secure all of Customer/owner's payment obligations hereunder. As collateral security for the payment and performance in full of its obligations hereunder, Customer/owner pledges, hypothecates, assigns, transfers, sets over, delivers, and grants to the Contractor a security interest in all right, title and interest of Customer/owner which presently exists or which hereafter arises in, to or under all products, goods, equipment, or other materials shipped or delivered to Customer/owner wherever located, now existing and after acquired, and all proceeds, products, replacements and substitutes of any of the foregoing and any property of any character whatsoever into which any of the foregoing may be converted. From and after the date of this Invoice and until Customer/owner's obligations hereunder are paid in full, Customer/owner irrevocably authorizes Contractor at any time and from time to time to file in any filing office in any UCC jurisdiction any initial financing statement and amendment thereto that indicates the collateral pledged hereunder and contains any other information required for the sufficiency or filing office acceptance of any financial statement or amendment and naming Contractor as a secured party. Customer/owner will not create, permit or suffer to exist, and Customer/owner will defend the collateral pledged hereunder against, and take such other action as is necessary to remove, any lien on such collateral, and will defend the right, title and interest of Contractor in and to any of Customer/owner's rights under such collateral against the claims and demands of all persons whomsoever. At any time and from time to time, upon the written request of Contractor and at the sole expense of Customer/owner, Customer/owner shall promptly and duly execute and d
- 9. WARRANTY DISCLAIMERS: Subject to paragraph 5 herein, Contractor warrants "new" product to be free from defects in workmanship and material under normal stand-alone use and conditions for usually a period of one year from date of original purchase. Used equipment is sold "as is" with no warranty. Damage due to abnormal use, extreme conditions, misuse, use of the product as a component of another product or machinery, ill treatment and unauthorized modification and repairs are not covered by this warranty. Contractor is not liable for any consequential or punitive damages arising out of any failure of the equipment to perform as intended. Contractor shall bear no responsibility or obligation with respect to the manner of use of any equipment sold by it. CONTRACTOR SPECIFICALLY DISCLAIMS AND NEGATES ANY WARRANTY OF MERCHANTABILITY OR FITNESS OF THE PRODUCT FOR A PARTICULAR PURPOSE INCLUDING, WITHOUT LIMITATION, ANY WARRANTY THAT THE USE OF SUCH EQUIPMENT FOR ANY PURPOSE WILL COMPLY WITH APPLICABLE LAWS AND REGULATIONS.
- 10. LIMITATION OF REMEDIES: Customer/owner's exclusive remedies with respect to any products furnished by Contractor hereunder that are found to be defective or otherwise not in conformity with this contract shall be limited exclusively to the right to replacement thereof or to repayment of the price, as above provided. Contractor's liability for any other breach of this contract shall be limited to the difference between the delivered price of the products covered hereby and the market price of such products at Customer/owner's destination at the time of such breach. IN NO EVENT SHALL CONTRACTOR BE LIABLE FOR PERSONAL INJURY, PROPERTY DAMAGE, LOSS OF PROFIT, DELAY, OR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. CUSTOMER/OWNER SHALL HOLD CONTRACTOR HARMLESS FROM ALL CLAIMS OR ACTIONS-BROUGHT BY THIRD PARTIES WITH RESPECT TO ANY DAMAGES DESCRIBED UNDER THIS PARAGRAPH 10.
- 11. EXCLUSIVE TERMS AND CONDITIONS; ACCEPTANCE; MODIFICATION: No terms or conditions other than those stated herein and no agreement or understanding, oral or written, in any way purporting to modify these terms and conditions shall be binding on Contractor unless hereafter made in writing, specifically stating that it is a modification of these terms and conditions, signed by Contractor's authorized representative. These conditions and this form constitute Contractor's acceptance of Customer/owner's order, and this acceptance, unless modified as provided in this paragraph 11, is expressly made conditional on Customer/owner's assent to these conditions as the only conditions for this and any future sale. Acceptance of the products sold hereunder by Customer/owner shall constitute assent to all conditions contained herein, and Contractor hereby objects to and rejects any and all additional or different terms proposed by Customer/owner, whether contained in Customer/owner's purchase order or shipping release forms, or elsewhere. All proposals, negotiations, and representations, if any, made prior and with reference hereto are superseded hereby.
- 12. CONDITIONS INCORPORATED BY REFERENCE: Any clause required to be included in a contract of this type by any applicable law or administrative regulation having the effect of law shall be deemed to be incorporated herein.
- 13. WAIVER: Waiver by Contractor or Customer/owner of any breach of these provisions shall not be construed as a waiver of any other breach.
- 14. ASSIGNMENT: This contract shall be binding upon the Customer/owner and Contractor and their respective successors and assigns; however, neither party may assign its rights or obligations hereunder without the prior written consent of the other party.
- 15. TITLES: The titles used in these Conditions are for convenience of reference only and are not to be considered in interpreting the substance of the conditions.
- 16. GOVERNING LAW; JURISDICTION: THIS CONTRACT SHALL BE INTERPRETED OR ENFORCED IN ACCORDANCE WITH THE INTERNAL LAWS OF THE STATE OF CALIFORNIA. CUSTOMER/OWNER HEREBY SUBMITS TO THE PERSONAL JURISDICTION OF THE STATE AND FEDERAL COURTS SITUATED IN CALIFORNIA

City of San Diego



Small Local Business Enterprise (SLBE) Program Certification

Accent Engineering and Construction DBA Accent

Construction

Emerging Local Business Enterprise (ELBE)

General Construction

(NAICS: 236220, 238110, 238210, 238220)

Certification Number: 13AE0934

Effective: 8/28/2020 - 8/28/2022

Christian Silva Program Manager Equal Opportunity Contracting

City of San Diego



Small Local Business Enterprise (SLBE) Program Certification

Accent Engineering and Construction DBA Accent

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Emerging Local Business Enterprise (ELBE)

General Construction

(NAICS: 236220, 238110, 238210, 238220)

Certification Number: 13AE0934

Effective: 8/28/2020 - 8/28/2022

Christian Silva Program Manager Equal Opportunity Contracting



Mail: P.O. Box 900 Rialto, CA 92377 312 S. Willow Ave Rialto, CA 92376 P: 909-874-2213 . F: 909-874-7560 Lic. No. 268566 C-50

Email: ambersteelplans@gmail.com
Website: www.ambersteelco.com

Project: ORGANICS PROCESSING FACILITY

Location: SAN DIEGO, CA.

We are bidding on and will furnish for the above mentioned project, the following described reinforcing materials and labor, tax included, as per plans and specifications, in accordance with the Manual of Standard Practice of Concrete Reinforcing Steel Institute (dated 3/01) and the conditions and exclusions herein specified, including those on the following pages. **Bid prices are firm for thirty (30) calendar days after which, if the bid has not been accepted, Amber Steel reserves the right to adjust the bid prices. Items bid are not for separate acceptance without Amber Steel's approval.** Please retain this document for reference at bid time and future use for contracts.

Bid		Price	
Item	Description	Type	Item Price
001	INTAKE FACILITY FOUNDATION	Lump Sum	\$210,000.00
002	40'x15'x4" SLAB	Lump Sum	\$2,400.00
003	SPILLWAY	Lump Sum	\$6,300.00
004	200'x56'x12" SLAB & WALLS	Lump Sum	\$124,000.00
005	TANK PAD 55'Lx22'W (SHT 5)	Lump Sum	\$19,100.00
006	73 BUNKERS (166'Lx27'W)	Lump Sum	\$1,400,500.00

Total Amount: \$1,762,300.00

Estimate No.:

Bid Date:

Bid Time:

001622

04/27/2022

12:00 PM

Drawings: SHTS 1 - 7Specifications: 60 GRADEAddenda: NONE SEEN

Clarifications:

PLANS ARE AS BUILD.

WORK TO BE COMPLETED BY 7/28/24, AFTER WHICH THE PRICE ON REMAINING WORK IS

SUBJECT TO COST ESCALATIONS+15%

NOTE: Contractor to unload shipments upon arrival to jobsite.

H. Wayne Lewis, Inc. dba Amber Steel Co. is registered with the Department of Industrial Relations

Registration No. 1000000630 and SBE certified in California Registration No. 1524221.

ISN #400-817-444

If you have any questions regarding this bid, please feel free to contact me at 909-874-2213.

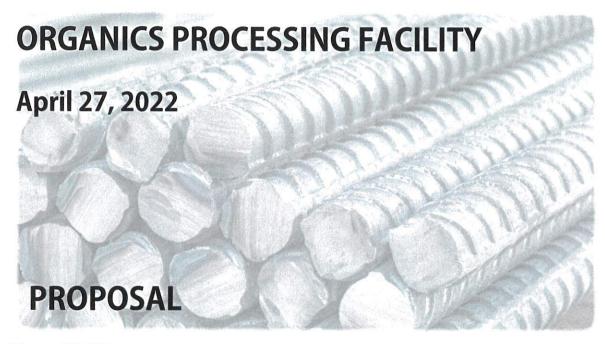
Best regards, RUBEN MURPHY Estimator

- 1. Buyer will notify Seller that Notice of Completion has been filed within ten days of such filing.
- 2. Any additional reinforcing steel that deviates from contract drawings requested by any lawful body having the right to demand said work be accomplished, shall be for the Buyer's account.
- 3. The prevailing party to any litigation arising to enforce the provisions of this contract shall be awarded full and complete court costs and attorneys' fees.
- 4. Prices are based on the Buyer furnishing without charge the following items as they are required by the Seller: (A) Grades and Lines (B) Racks and templates constructed with sufficient accuracy that will support reinforcing steel within placing tolerance specified by the Owner (C) Ramps, scaffolding, ladders and excavation (shoring, sheathing or other method of soil retainage) meeting safety standards required by the applicable controlling agency (D) Flat working space for delivery, storage and pre-assembly of all cages, must be accessible to tractor semi-trailer deliveries and adjacent to place where steel is to be used and/or hoisted (E) Loading and transportation of pre-tied mats to point of installation. (F) Drinking water, first aid service, and sanitary facilities including hand washing provisions with an adequate supply of potable water, soap, and or suitable cleansing agent and single use towels for hand washing (G) Hoisting and Rigging (F) Anchors, Cables & Railings as required for fall protection. Buyer shall furnish without charge suitable equipment fully operated for hoisting, rigging or lowering of reinforcing material, setting of cages and/or assemblies and power placing of individual bars that Seller may require. Contractor to unload shipments upon arrival to job.
- 5. The above prices are based upon the character of design and construction as shown or defined on the above documents. Seller reserves the right to renegotiate the prices if design alters the character of work presently shown, regardless of the weight involved. (No quantity estimate will be provided or separate records maintained on design changes unless the unit price is affected.) Billings for material are to be based upon the theoretical weight as shown on approved detail drawings and Seller's bar shop lists.
- 6. Should the Owner not withhold or reduce the amount of retention on, progressive payments, the same percentage reduction shall apply to Amber Steel Co.
- 7. All reinforcing shown bent will be shop fabricated.
- 8. Seller's price is based on detailing, fabricating and placing on a normal 5 day 40 hour week, excluding Iron Worker Union vacations and/or holidays. Buyer must have minimum of 8 hours work before scheduling ironworkers to jobsite. Performance will be based on conventional construction, timely receipt of complete plans, specifications and adequate written schedules to which the Seller is a party. Buyer shall furnish design information, location of pour joints and control joints, and construction schedules in sufficient time to allow for preparation and approval of detail drawings plus a minimum of 7 working days for fabrication and delivery. (NOTE: Lead time involving special mill rolling, spirals, EPOXY OR GALVANIZE COATINGS, and/or special mesh will require special arrangements and 30 days minimum lead time).
- 9. Seller's bid is based on furnishing insurance for bodily injury and for property damage combined, not to exceed \$2,000,000.00. Additional costs for increased limits, specific waivers of subrogations in favor of owner, contractor and architect or any other special insurance provisions shall be for the Buyer's account.
- 10. Approval for pouring, or embedment in concrete, shall terminate the Seller's responsibility for that portion of the work.
- 11. In the event of schedule delays caused by Buyer or other subcontractors, the Seller will be allowed to reschedule work in accordance with manpower availability not to exceed 72 hours.
- 12. The cost of ironworker show-up time when work scheduled by Buyer is not ready will be for Buyer's account.
- 13. Buyer shall not form starter walls before reinforcing steel is installed or have anything across footings where rebar is to be installed, and screeds or stakes are to remain clear if we are to install mesh in slabs.
- 14. No splices in reinforcing bars will be furnished for contractors' convenience, other than shown on contract drawings.
- 15. The Seller shall not be responsible for the replacing of steel that has been displaced by others, or for additional construction laps, cleaning or sandblasting of steel made necessary due to the operation of others.
- 16. Any indemnification or hold harmless obligation of the Seller shall extend only to claims relating to bodily injury and property damage and then only to that part or proportion of any claim, damage, loss or defect that results from the negligence or intentional act of the indemnitor or someone for whom it is responsible. Seller shall not have a duty to defend.
- 17. Buyer shall furnish two complete sets of specifications and drawings at no charge to Seller. These drawings and future revisions shall be readily available to expedite project.
- 18. The Seller has the option to substitute grade 60 reinforcing for grade 40 reinforcing for all sizes.
- 19. Electronic signatures are binding.
- 20. Providing access. The jobsite must be accessible by truck to the point.
- 21. of installation.
- 22. Buyer shall provide adequate lighting to perform night time work if required.
- 23. Buyer shall provide a dry (free from water and/or muddy conditions) and compacted grade where rebar is to be installed.
- 24. Payment for materials (reinforcing steel, mesh, etc) due within 30 days after delivery to jobsite.
- 25. Rebar detailing, fabrication and placing to comply to CRSI Manual of Standard Practice 28th Edition: 2009.

EXCLUSIONS

- 1. Cost of bonds, cost of changes to increase standard insurance coverage or waiver..
- 2. Costs, impacts or liquidated damages as a result of mill material shortages.
- 3. Placing or threading of main reinforcing bars through holes in bulkheads, forms, templates or any situation decreasing labor productivity.
- 4. Testing and inspection, other than mill test reports.
- 5. Hoisting and rigging equipment.
- 6. Furnishing and installation of protective caps or covers for all horizontal or vertical dowels as required, meeting applicable safety standards.
- 7. The cost of reworking, rehabilitating and/or replacing reinforcing steel damaged or lost as a result of rain or flood. If storm damage should occur, then the responsibility for steel fully or partially in place, and for steel stored in locations designated by Buyer, shall be for Buyer's account.
- 8. Cost of pour watchman.
- 9. Cost of vehicular or pedestrian traffic safety and control.
- 10. The cost of field and/or welding inspection.
- 11. Cost of as-built drawings.
- 12. The installation and layout of formsavers and threaded dowels.
- 13. Plain round bars, threaded bars, inserts, sleeves, bolts or anchors.
- 14. Wrapping, coating, painting and greasing of dowels.
- 15. Cutting, cleaning, straightening and bending existing steel.
- 16. Drilling, grouting, dry-packing and placing bars in drilled holes.
- 17. Furnishing and/or welding of dowels and anchors that weld to miscellaneous and/or structural steel.
- 18. All welding.
- 19. Providing holes in structural steel for bars to pass.
- 20. All electrical grounding.
- 21. Site work, including sidewalks and paving, other than shown on plans.
- 22. Stem bending.
- 23. All couplers.





Estimate # 22-349

PREPARED BY:

David Flores

Camblin Steel Services, Inc. 11112 Elm Ave, Rancho Cucamonga CA, 91730 M: 951-206-0189 David.flores@camblinsteel.com



Structural Reinforcing Bid Proposal

We are pleased to submit a bid for the Organics Processing Facility Project located in San Diego. CA. Please see scope for inclusions & qualifications.

Scope

Camblin Steel Services, hereinafter referred to as Subcontractor, proposes the following lump sum subject to the terms and conditions herein to furnish, fabricate, and place ASTM A615 deformed reinforcing bars and WWF reinforcing per the CRSI Manual of Standard Practice and based on the following documents.

The drawings stamp dated 04/15 & 18/22

Proposal includes – Building spread footings, wall footing, slab on grade and Wall. Sitework includes Cutoff Wall and Spillway.

Lump Sum

Our total cost for this project is \$144,203.00. See below for breakout values:

BID ITEM	TOTA	L AMOUNT
BUILDING	\$	137,761
SITE	\$	1,960
ADD HOISTING	\$	5,850
TOTAL	\$	145,571

values:

NOT A

FUII

BID
RAW

Qualifications and Assumptions

- 1. All reinforcing per details provided
- 2. Laps 72 bar diameters
- 3. Rebar grade 60/A615
- 4. Includes two (2) deliveries and two (2) mobilizations. Additional deliveries will be charged at \$600 each. Additional mobilizations will be charged at \$1,500.

Inclusions

- 1. Detailing of approved "For Construction" drawings, or as directed in writing.
- 2. Hoisting included. Contractor to supply clear access and staging for all scope of work
- 3. Furnish to jobsite, per mutually agreed schedule, materials on an "as needed" basis.
- 4. Installation of reinforcing steel as quoted herein.
- 5. All Drill & bond dowels furnished FOB jobsite. Unloading, transporting, and installing by others.
- 6. All chairs, support bars, support steel and accessories minimally required for the placing of reinforcing bars.
- 7. Cost of flagging and traffic/pedestrian control has been included. Signs, barricades, closures, and permits by others, if necessary.

Conditions

- 1. Performance shall be based on conventional construction; timely receipt of construction documents and information; and a written schedule, based on a normal 5-day, 40 hour straight-time work week, to which Subcontractor is a party.
- 2. Re-detailing and/or estimating resulting from design changes shall be billed at the rate of \$95.00 per hour.
- 3. Subcontractor shall not be required to continue the performance of work considered by the Subcontractor to be outside the scope of the work hereunder unless resolution of Subcontractor's submitted notices and valuation of such previous work is timely (i.e., within 30 days of Contractor's receipt of such notice).
- 4. Buyer to supply the following at no cost:
 - a) Lines, grades, supporting rebar templates, layout, and access ramps.
 - Safe access to points of work, including tractor-trailer access to installation locations or to within
 25 feet of where materials are to be used or hoisted.
 - Provision and maintenance of all required and necessary protection measures for exposed vertical reinforcing steel to maintain safety regulations (i.e., wood tops and/or safety caps).
 - d) Adequate areas for staging, storage, and pre-assembly of materials.
 - e) Removal of spoils from footings, and small wire clippings caused by normal reinforcing installation.
 - f) Parking
 - g) Lane closures, signage, and/or barricades as required for reinforcing deliveries
 - h) Equipment for offloading and transporting equipment
- 5. In the event either Contractor or Subcontractor institutes a suit against the other in connection with any matter arising from this agreement, the prevailing party shall be entitled to recover from the other its reasonable attorney's fees and costs.
- 6. In the event the Contractor considers the performance of the Subcontractor to be delaying the progress of the work, Contractor shall provide timely written notification to the Subcontractor.
- 7. If Subcontractor is directed to proceed with any work in conjunction with this proposal, said direction shall constitute an acceptance of the terms, conditions and exclusions set forth herein and this document shall constitute a formal contract between the Subcontractor and Contractor for the performance of such work. Any contract created hereunder may only be superseded or supplemented by an acceptable written agreement executed by both the Subcontractor and Contractor.

Exclusions

- 1. Testing or inspection other than the furnishing of certified mill test reports.
- 2. Cost of bonds.
- 3. Any pile and reworking at pile cap due to pile orientation
- 4. All elevated slab infills (if any reinforcing scope)
- 5. Cleaning, protection, and reworking of existing rebar
- 6. Drill holes through concrete or structural steel to pass rebar
- 7. Smooth, galvanized, stainless steel and epoxy coated bars.
- 8. Anchors, all-thread rods, anchor bolts, studs, stud rails, sheathing, sleeves, and inserts.
- 9. Wrapping, coating, painting, or greasing of dowels.
- 10. Cutting, drilling, grouting, or dry packing & placing of grouted dowels.

- 11. Grinding or removal of nails, staples, and/or fasteners at exposed or unexposed soffits required for components of subcontractor's scope.
- 12. Welding and/or dowels and welding of same to structural or miscellaneous iron.
- 13. BIM/3D shop drawings and coordination meetings for clash detection.
- 14. Splices in reinforcing bars, form-savers, field bending and/or const. joint dowels for Contractor's convenience.
- 15. Cost of pour watchman.
- 16. Special insurance provisions including: "Broad Form or Type 1 Indemnification", "Contractor's Pollution Liability" and "Additional insured status for Architects, Design Engineers or their consultants".
- 17. Cost of remedial work and/or replacement of materials made necessary by water or flood damage to reinforcing steel following delivery or installation as directed by Contractor.
- 18. Reinforcing for masonry, civil improvements, or precast concrete.
- 19. Reinforcing for MEP concrete or trim steel for MEP penetrations

Please contact me directly for questions about our proposal.

Sincerely,

David Flores

Camblin Steel – Sales Manager (951) 206-0189 david.flores@camblinsteel.com

DIR # 1000003852 (Expires 06/31/2022)

EMR: 1.04

Bond Rate: 2.20%

THIS PROPSAL IS SUBJECT TO REVISION OR WITHDRAWAL IF NOT ACCEPTED IN WRITING OR BY FACSMILE TRANSMISSION WITHIN THIRTY (30)
DAYS. THIS PROPOSAL IS CONDITIONED UPON OUR APPROVAL OF FINAL QUANTITIES, CONTRACT DOCUMENTS, INSURANCE AND BONDING
REQUIREMENTS, AND CONSTRUCTION SCHEDULES. CAMBLIN STEEL SERVICE, INC. SHALL BE ENTITLED TO RECEOVER ITS COLLECTION COSTS
AND ATTORNEY'S FEES IF PAYMENT IS NOT MADE AS REQUIRED UNDER THE BUSINESS & PROFESSIONS CODE. CHANGE ORDER
NUMBER/WRITTEN AUTHORIZATION IS REQUIRED PRIOR TO ANY EXTRA WORK BEING PERFORMED.



4990 Greencraig Lane San Diego, CA 92123 (858) 444-2000 fax: 444-2056

State License No: C-16-577621 www.coscofire.com

April 27, 2022 Sukut Construction 4010 W. Chandler Ave Santa Ana, CA 92704

RE: Organics Processing Facility Miramar

Scope of Work:

- This budget includes materials, tax, tools, equipment and labor to provide the wet fire system for the new building based on RFP plans. No addenda have been acknowledged.
- Cosco Fire Protection's point of connection shall be 0'-6" above the floor in the building.
- Work will be performed during normal working hours Monday Friday 7:00am to 4:00pm.
- This budget is based upon receiving, AutoCAD files and complete sets of all plans at no additional cost to Cosco Fire Protection.
- System design is per NFPA Ordinary Hazard GPII and no special considerations for storage has been included.
- All new piping shall be schedule 40 black steel with threaded fittings per specification.
- Permit fees.
- Work planned to be complete within 12 months of this proposal date.
- All new sprinklers shall be brass finish in all areas.

Exclusions:

- Material and labor escalation beyond 12 months of this proposal date.
- Electrical wiring.
- Working in areas with hazardous material as defined by OSHA.
- Working overtime, afterhours, during holidays or weekends.
- Any work associated with: Knox box and fire extinguishers.
- Underground site work, backflow device, PIV, FDC, city connections or 5'-0" out stub.
- Painting or prepping for paint of piping, fittings and other materials.
- Fire Protection Engineer or high piled stock report, Structural Engineering stamp, seismic and hanger calculations.
- Fire pump.
- Window sprinklers, exposure protection or water curtains if needed.
- Sprinkler custom paint color.
- FM Global Insurance requirements.
- Pre-action, Clean-Agent Fire Suppression systems and hood systems.
- Wiring of alarms or central station monitoring.
- Microbiologically induced corrosion monitoring stations, air release or anti-MIC chemical treatment.
- Performance and payment bond (add 1.5% if required).
- Controlled insurance program.
- Buy America or Buy American acts.

Proposal Amount: \$88,707

Cosco reserves the right to review and revise this proposal upon receipt of updated documents or market conditions.

Sincerely



Michael Cunnien Contract Sales/PM



April 28, 2022

Sukut Construction, LLC 15 Commerce Way Norton, MA 02766 Attn: Vaheh Aloianmel, Project Engineer.

valoianmel@sukut.com

Subject: Butler Building Proposal

Project: City of San Diego - Organics Processing Facility

DLF Construction, Inc. appreciates the opportunity to offer our proposal to furnish and install a Butler Building for the abovementioned project.

Scope of Work:

Furnish and install one 125' W x 200' L x 32' H Butler Building including galvanized frames & bracing, double slope roof with, four (4) 3'x7' pre-assemble personnel doors, framed openings for (21) roll-up doors (by others) and (48) translucent panels.

Includes:

Stamped Engineered Drawings for Building, Prevailing Wages, Certified Payroll Reports, applicable insurances. Butler INCLUDES a design package that will list the loads to be imposed on the existing structure (and the footings).

EXCLUDES:

Foundation, concrete, anchor-bolts, templates, interior partitions, interior finishes, fire-rated walls, sprinkler systems, electrical systems, plumbing, restrooms, vents and roll up doors.

Excludes city permits and fees, foundation design, bond (if required add 1.5% of bid amount)



Terms and Conditions:

- Quotes are valid for Thirty (30) days from the date given.
- Projects must ship within Ninety (90) days from the date of the quote.

TOTAL: \$2,133,000 (Two Million One Hundred Thirty-Three Thousand and 00/100).

- Orders placed on hold must be updated to the current pricing (Advantage release #, Quote & Discount) at the time they are released for fabrication.
- 30% deposit due with signed proposal.
- Work hours Monday-Frida with 8-hour workdays.

We propose to furnish all labor, materials, and equipment necessary to perform the above scope of

work in a substantial and workmanlike manner for the sum of:

If you should have any questions, please contact us. Respectfully submitted: Jorge Diaz De La Fuente



Certified Small Disadvantaged Business Certified Diverse Business Enterprise (WBE) VON # 8KN00030 Duns # 620265160

Phone: (760) 789-4343

Budget Proposal

April 28, 2022

Sukut Construction 4010 West Chandler Avenue Santa Ana, CA 92071 Contact Name: Charles Malis

Office: (714) 296-2638

Mobile: Email: cmalis@sukut.com
Job Address Organics Processing Facility

City of San Diego

We propose to supply all material and perform all labor to complete the following work.

Mobilize Equipment.

Place 6" of Recycled Class II Base over prepared and approved subgrade (Water for compaction to be provided by others) over 540,000 square feet. Base work to be completed over 20 days.

Place 4" hot mix asphalt over 540,000 square feet. Paving to be completed over 13 days

Prices below include Prevailing wages based on Bid Date of 04/28/2022. Water to be provided on site by others. Soil Sterilization can be added at an additional cost. Does not include Soils testing, BMP's Surveying, Staking or Permits. Hankins Construction, Inc. will not be responsible for Asphalt damage due to failing subgrade within the Warranty period of the work.

Mobilization		\$ 10,000.00
Placement of Base		\$ 645,700.00
Placement of Asphalt		\$ 1,902,500.00
	Total Budget Amount	\$ 2,558,200.00

Optional: To install fabric between the 2" base course of Asphalt and the 2" cap add the following to the Placement of asphalt above – for TruPave® add \$205,200.00 or for Glaspave 25 ® add \$237,600.00.

GOOD THRU: Due to the current economic situation Hankins Construction, Inc. and it's suppliers cannot hold prices longer than 30 days from date of proposal.

PAYMENT: Progress Payments To be made in full upon Completion.

EXCLUSION: BMP'S, Construction Water, Soils Testing, Engineering, Surveying, Staking, Permits,

Hydroseeding, Blasting and Removal of Unsuitable Materials.

Respectfully Submitted,

Deborah A. Hankins Hankins Construction, Inc. Contractor lic. # 916516

ACCEPTED

ACCEPTANCE

7.60Ei 17	1102
You are hereby authorized to furnish all materials	and labor required to complete the work mentioned
in the above proposal, for which	agree to pay the amount mentioned ir
said proposal, and according to the terms thereof.	

DATE

City of San Diego



Small Local Business Enterprise (SLBE) Program Certification

Hankins Construction, Inc.

Emerging Local Business Enterprise (ELBE)

General Construction

(NAICS: 237310, 238910, 238990)

Certification Number: 17HC1426

Effective: 7/19/2021 - 7/19/2023

Christian Silva Program Manager Equal Opportunity Contracting



PROPOSAL

REVISED TO 120 DAY PROPOSAL GOOD FOR

REMEMBER, WE HAVE A FULL STEEL FABRICATION SHOP* **ESTIMATING

SLBE #10IN003 / DBE #14089 / SBE #313379 To: SB #1364100 / HUBZone #59995 / SDG&E ISN-400-580281

UNION AFFILIATED - LOCAL 89 & LOCAL 12

P.O. BOX 2637 - Ramona, CA 92065

CSLB #769516 - (C-13.C-51.C-32)

DIR #1000002605 **WWW.INLINERAIL.COM**

@ Fax:

> Addendum noted: None

E-MAIL: ESTIMATING@INLINERAIL.COM





DO IFOT	ORGANICS PROCESSING FACI			DID DATE	: 4/27/22		
ROJECT:	NORTH MIRAMAR LANDFIL CITY OF SAN DIEGO	L		BID DATE: UNIT			
ТЕМ#	DESCRIPTION		UNIT	PRICE	TOTAL DETAIL		SHEET #
	SUPPLY, INSTALL:				-		
1	6'H GALVANIZED CHAIN LINK FENCE PER ATTACHED CITY DRAWINGS	1	LS	458429.00	458,429.00	M-05 & 06	C-100
					- - -		
					- - -		
	NOTE: This Proposal Must Be Included In Contra			Total: \$	458,429.00		

*Includes: Field measuring, fabrication, installation, In-Line's Time, Material & Equipment work sheet. Note: Concrete MUST be in place Prior to ANY Field Messurements and or Fabrication,

*Excludes: Traffic Control, Rail Rd Flagging, Bonding, Permits, Survey, Blocking, Backing, Panic hardware, Hardware boxes, Signage, Personal Guarantee, Elevations, Engineering, Painting, Special inspections, Demo, Clear & Grub, Wall surfacing, Fire watch, Patching, Dry Pack, Underground location, Spoils stock piling & removal, Sleeve placement, Rock digging, Grounding, Detailing, Scaffolding, Waterproofing, Misc Metals, Pot Holing, Concrete Thicken Edge, Mow curbs, Electrical, Gate Closures, Gate Locking Devices, Key Cylinders, Weep hole filling, Samples, Mock-ups, Chains, Pad Locks, Imbed Placement, Post Pockets, Material Reinstallation, Hand Digging, Vacume Digging, Private Underground Locating, All Flagging, Temp Railing, Temp Fence, Tire Mark removal, Knox Box,

Proposal price good for 120 days after bid & must be an attachment to contract

·	•	by accepted. Furthermore I understand that this agreement is subject to the given arantees and promise to pay to In-Line the total sum amount above.
Date of Signature:	Buyer Signature:	Print Name:





Small Local Business Enterprise (SLBE) Program Certification

In-Line Fence & Railing Company, Inc. DBA In-Line Construction, Inc.

Small Local Business Enterprise (SLBE)

Specialty Construction

(NAICS: 238990, 332323, 237310)

Certification Number: 10IN0031

Effective: 7/19/2021 - 7/19/2023

Christian Silva Program Manager Equal Opportunity Contracting

K COMPANY

1314 Darby St. Spring Valley Ca. 91977

Cell 760-525-8416 **DATE:** 4/29/2022

Fax 619-439-2434

E-Mail daleatkco@live.com (Trucking Only Quote)

Contractor Lic 707834

Organics Prossing Facility K-22-2049-DB1-3

CERTIFIED: ELBE 11KCO261

Caltrans: SBE 54281 Revised Rates

ITEM	HOURLY RATE
End Dump	\$135.00 Hr.
Flat Bed	\$135.00 Hr.
Booster Truck	\$140.00 Hr.
Super Tag	\$140.00 Hr.
Transfer	\$140.00 Hr.
Truck & Pup	\$140.00 Hr.
Bottom Dumps	\$140.00Hr.
Super 10	\$130.00Hr.
Ten Wheeler	\$125.00 Hr.

SPECIAL INSTRUCTIONS:

5 hr. min on all trucking 6 hr. Min for nights or weekend Work
Quantity of Trucks Supplied by K Company Based on Availabilty
To help reach SLBE Goal K company Has charge acounts at Martin Marietta
and Superior ready mix at 5% handling charge

Charles Malis

From: Dale Kissinger <daleatkco@live.com>
Sent: Friday, April 29, 2022 11:23 AM

To: Charles Malis

Subject: [External] Material quote FOB Martin Marietta Plant

Recycle Base \$5.25 Ton. 3/8 Rock \$23.10 Ton Recycle 3/8 Rock \$7.88 Ton

Sent from Mail for Windows

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City of San Diego



Small Local Business Enterprise (SLBE) Program Certification

K Company Emerging Local Business Enterprise (ELBE) General Services

(NAICS: 484220)

Certification Number: 11KC0261 *Effective: 3/11/2022 - 3/11/2024*

Christian Silva Program Manager Equal Opportunity Contracting





Proposal

Sukut Construction
Miramar Landfill
Organic Processing Facility

April 25, 2022 Mr. Vaheh Aloianmel Sukut Construction 4010 W. Chandler Ave. Santa Ana, CA 92704

Re: Design, Build and Installation of Odor Control System (Budgetary Estimate Only) Dear Mr. Aloianmel,

Following is our proposal based on early design drawings to build and install a complete odor control misting system overhead in the proposed Organic Processing Facility at Miramar Landfill. Additionally to add odor control misting to the proposed conveyor. Design drawings and O&M Manual are included in this proposal.

1. System Components

• Parts -

• <u>Parts</u> -					
0	4gpm High Pressure Pump with VFD (60400K-1PH-230VFD)	\$5264.20			
0	 1600ft. 3/8" high pressure tubing (56405-BLK) 				
0	130012 nozzles (51423-SS)	\$547.82			
0	15 – 3/8" Stainless Tee(52377-SS)	\$395.22			
0	10 -3/8" elbows(52376-SS)	\$202.66			
0	130 –3/8" Nozzle unions (52375-SS)	\$2746.38			
0	12 – 3/8" unions (52378-SS)	\$134.53			
0	7 – 3/8" end plugs (52379)	\$9.81			
0	14gpm Dosing Pump (D14MZ10AFD11)	\$1055.26			
0	Mounting hardware	\$1561.00			
0	Dual Filtration	\$224.00			
Total Parts:		\$13,771.03			
Boomlift (1 we	ek)	\$1,850.00			
Utilities prep (v	water/power) including materials	\$2,000.00			
Labor: Estimate	Labor: Estimated 6 days				
Administration	/ Reporting/Design Drawings/O&M Manual	<u>\$2200.00</u>			
Total:		\$34,221.03			

(DEDUCT \$392.36 without Conveyor)

Payment terms are 50% deposit and 50% net 30 post completion. Lead-time is approximately 4-6 weeks (for parts not currently in stock). Sales tax is not included in this proposal if applicable. We are CA licensed and bonded General A, Electrical, Plumbing and Low Voltage Contractors. SITE to provide Water and 220V/30AMP power at area to be determined.

Thank you for your business,

Joe Provenzano President



License #49236 909-783-3131

Job:

SD Waste Facility

By:

Overhead Door Company of Inland Empire

Colton, CA

Contact:

Ryan Sherrett

Phone: 909-783-3131 Email: ryan@iohd.com

This proposal is valid until Monday, July 25, 2022

Overhead Door Company of Inland Empire 12401 S La Cadena Dr Colton, CA 92324



4/27/2022 1:38 PM

Subject: Proposal for SD Waste Facility

Thank you for allowing us to bid this project. We look forward to working with you.

DVBE and SBE certified business: Certification #1031299

Best Regards,

Ryan Sherrett | Phone: 909-783-3131 492369

Reference: SQGU002315-1 was modified Wednesday, April 27, 2022 and is valid till Monday, July 25, 2022.



Overhead Door Company of Inland Empire

12401 S La Cadena Dr Contact: Ryan Sherrett
Colton, CA 92324 Phone: 909-783-3131
License #492369 Email: ryan@iohd.com

This proposal is valid till Monday, July 25, 2022

Quote: SQGU002315-1 | Created: 4/26/2022 11:42 AM

Job:

SD Waste Facility

	Item	Qty
1	995.RD 25'0" x 30'0"	Opening 11
	Mounting:	Right: Steel, Face Of Wall; Left: Steel, Face Of Wall; Lintel - Steel, Header - Steel
	Curtain:	5 Ply Rubber, Black, Interior Mtd Above Lintel
	Operation:	Motor Supplied by Manufacturer, Shaft Mount, Right Hand
	Operator:	RapidSeries Direct Drive Motor, Factory Default HP, 230V 3Phase 60Hz (208-
		245V range), Hoist, Wireless Monitored Edge, PhotoEyes-Standard (Monitored)
	Bottom Bar:	Double Angle, Steel, Powder Coat- Safety Yellow, Electric 2Wire 8K Wireless
		ASO
	Guide:	Steel, Powder Coat- Safety Yellow, Double Flared Entry
	Hood:	Square, Steel, Black, Primed, Hood Flange Down
	Bracket:	Steel, Powder Coat-Black
	Misc:	Unitized, Special Instructions: CRATING
	Last Changed:	4/26/2022 12:01 PM PDT
2	995.RD 18'0" x 30'0"	Opening 2
	Mounting:	Right: Steel, Face Of Wall; Left: Steel, Face Of Wall; Lintel - Steel, Header - Steel
	Curtain:	5 Ply Rubber, Black, Interior Mtd Above Lintel
	Operation:	Motor Supplied by Manufacturer, Shaft Mount, Right Hand
	Operator:	RapidSeries Direct Drive Motor, Factory Default HP, 230V 3Phase 60Hz (208-
		245V range), Hoist, Wireless Monitored Edge, PhotoEyes-Standard (Monitored)
	Bottom Bar:	Double Angle, Steel, Powder Coat- Safety Yellow, Electric 2Wire 8K Wireless
		ASO
	Guide:	Steel, Powder Coat- Safety Yellow, Double Flared Entry
	Hood:	Square, Steel, Black, Primed, Hood Flange Down
	Bracket:	Steel, Powder Coat-Black
	Misc:	Unitized, Special Instructions: CRATING
	Last Changed:	4/26/2022 12:04 PM PDT
3	995.RD 25'0" x 20'0"	Opening 3
	Mounting:	Right: Steel, Face Of Wall; Left: Steel, Face Of Wall; Lintel - Steel, Header - Steel
	Curtain:	5 Ply Rubber, Black, Interior Mtd Above Lintel
	Operation:	Motor Supplied by Manufacturer, Shaft Mount, Right Hand
	Operator:	RapidSeries Direct Drive Motor, Factory Default HP, 230V 3Phase 60Hz (208-
		245V range), Hoist, Wireless Monitored Edge, PhotoEyes-Standard (Monitored)



Overhead Door Company of Inland Empire

12401 S La Cadena Dr Contact: Ryan Sherrett
Colton, CA 92324 Phone: 909-783-3131
License #492369 Email: ryan@iohd.com

Bottom Bar: Double Angle, Steel, Powder Coat- Safety Yellow, Electric 2Wire 8K Wireless

ASO

Guide: Steel, Powder Coat- Safety Yellow, Double Flared Entry

Hood: Square, Steel, Black, Primed, Hood Flange Down

Bracket: Steel, Powder Coat-Black

Misc: Unitized, Special Instructions: CRATING

Last Changed: 4/26/2022 12:11 PM PDT

4 995.RD 25'0" x 14'0" Opening 3

Mounting: Right: Steel, Face Of Wall; Left: Steel, Face Of Wall; Lintel - Steel, Header - Steel

Curtain: 5 Ply Rubber, Black, Interior Mtd Above Lintel

Operation: Motor Supplied by Manufacturer, Shaft Mount, Right Hand

Operator: RapidSeries Direct Drive Motor, Factory Default HP, 230V 3Phase 60Hz (208-

245V range), Hoist, Wireless Monitored Edge, PhotoEyes-Standard (Monitored)

Bottom Bar: Double Angle, Steel, Powder Coat- Safety Yellow, Electric 2Wire 8K Wireless

ASO

Guide: Steel, Powder Coat- Safety Yellow, Double Flared Entry

Hood: Square, Steel, Black, Primed, Hood Flange Down

Bracket: Steel, Powder Coat-Black

Misc: Unitized, Special Instructions: CRATING

Last Changed: 4/26/2022 12:18 PM PDT

5 995.RD 18'0" x 14'0" Opening

Mounting: Right: Steel, Face Of Wall; Left: Steel, Face Of Wall; Lintel - Steel, Header - Steel

Curtain: 5 Ply Rubber, Black, Interior Mtd Above Lintel

Operation: Motor Supplied by Manufacturer, Shaft Mount, Right Hand

Operator: RapidSeries Direct Drive Motor, Factory Default HP, 230V 3Phase 60Hz (208-

245V range), Hoist, Wireless Monitored Edge, PhotoEyes-Standard (Monitored)

Bottom Bar: Double Angle, Steel, Powder Coat- Safety Yellow, Electric 2Wire 8K Wireless

2

ASO

Guide: Steel, Powder Coat- Safety Yellow, Double Flared Entry

Hood: Square, Steel, Black, Primed, Hood Flange Down

Bracket: Steel, Powder Coat-Black

Misc: Unitized, Special Instructions: CRATING

Last Changed: 4/26/2022 12:16 PM PDT

Total (USD): \$980,100.00

Terms and Conditions

Quote includes material specified, tax and Installation. **Escalation included - projected installation date end of 2023**

Terms: Overhead doors are a custom fabricated product. IOHD will require a 30% payment of contract value prior to fabricating



Overhead Door Company of Inland Empire

12401 S La Cadena Dr Contact: Ryan Sherrett
Colton, CA 92324 Phone: 909-783-3131
License #492369 Email: ryan@iohd.com

materials and balance due prior to shipment (less retainage).

EXCLUSIONS:

Contract documents not listed above or provided prior to issuance of subcontract. Material escalation not included. All prices valid for 30 days due to volatile market.

All high voltage electrical, conduits, j-boxes, disconnects and wires placed in conduit and all wiring terminations.

All low voltage, conduits, j-boxes, disconnects, control stations, safety edges, interlocks accessories, wires placed in conduit and all wiring terminations

Permits, fees and changes.

Mandatory on-site meeting during unscheduled install hours.

Expedited fees.

Jambs, spring pads,, , unless otherwise stated above, are not included. In the event Purchaser breaches or defaults under the terms and provisions of this Agreement, the Purchaser shall be responsible for the costs of collection, including reasonable attorneys' fees. The Seller shall be entitled to full and final payment on the Purchase Order. (Agreements are contingent upon strikes, accidents, or delays beyond our control.) Offer subject to credit approval. Joint checks required to suppliers if requested by seller. The terms and conditions of this proposal will apply to any sub-contract issued as a result of this offer. INSURANCE: Special forms such as CG2010-1185 Certificates and Waiver of Subrogation are NOT included. Add \$500.00 per special form. Special insurance coverage is not included. Special insurance fees will be quoted upon request. NOTORIZED FORMS are not included and will be charged for separately at \$35.00 each. Contracts less than \$7,500.00 are not accepted. Please issue a purchase order. Bond rate 3.5%



Office of Small Business & DVBE Services

Certification ID: 1031299

Legal Business Name:

GMATINC

Doing Business As (DBA) Name 1:

INLAND OVERHEAD DOOR CO

Doing Business As (DBA) Name 2:

Address:

12401 LA CADENA DR

COLTON

CA 92324-3687

Email Address:

ryan@iohd.com

Business Web Page:

business web i age.

www.inlandoverheaddoor.com

Business Phone Number:

909.783.3131

Business Fax Number:

909.783.3478

Business Types:

Construction, Service

Certification Type	Status	From	То	
DVBE	Approved	03/03/2022	03/31/2024	
SB(Micro)	Approved	02/09/2022	02/29/2024	

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED! $-LOG\ IN\ at\ \underline{CaleProcure.CA.GOV}$

Questions?

Email: OSDSHELP@DGS.CA.GOV

Call OSDS Main Number: 916-375-4940

707 3rd Street, 1-400, West Sacramento, CA 95605

RANCHO LAND COMPANY

2022 Rate Schedule

Classification	Hourly Rate
Principal Land Surveyor	\$175
Project Manager	\$150
Survey Technician (CADD)	\$125
Administrative Assistant	\$70
Land Planner	\$150
2-Man Survey Field Crew	\$200
2-Man Survey Field Crew Prevailing Wage	\$310
1-Man Survey Field Crew	\$150
1-Man Survey Field Crew Prevailing Wage	\$240
3D Laser Scanning Field Crew	\$265
3D Laser Scanning Field Crew Prevailing Wage	\$350
Forensic Witness Land Surveyor Services	\$300
Forensic Witness Testimony/Deposition	\$450
Forensic Administrative Assistant	\$125

406 16th Street, Suite 102, Ramona, CA 92065 Email: <u>clynch@rancholandco.com</u> Phone: (760)788-1530

City of San Diego



Small Local Business Enterprise (SLBE) Program Certification

Rancho Land Co. DBA Rancho Land Services
Small Local Business Enterprise (SLBE)
Professional Services

(NAICS: 541990)

Certification Number: 17RL1612

Effective: 1/10/2022 - 1/10/2024

Christian Silva Program Manager Equal Opportunity Contracting



SoCal Stormwater Runoff Solution Services Inc. **SBE & SLB Certified**

California License# C3483049 I DIR# 1000435627

Office: (310) 343-8313 I Fax #: (310) 579-8413 E-mail: office@socalstormwatersolutions.com

Website: www.socalstormwatersolutions.com

Proposal No. 4/28/2022 37378

Corporate Office:

15030 Ventura Blvd. #669 Sherman Oaks.CA 91403

501 W. Broadway St. #527 San Diego: San Diego, CA 92101

22668 Westborough Blvd. #131 San Francisco: South San Francisco, CA 94080

Project Name: Organics Processing Facility Project Number:K-22-2049-DB1-3-C, L-17000.2

	South San Francisco, CA 94080					
ltem#	Description	Qty	Rate	U/M	Total	Initial
1.1	Preparation of Stormwater Pollution Prevention Plan (SWPPP) Including Revisions as Specified in Project Documents Development and QSD Certified	1	\$1,595.00	LS	\$1,595.00	
1.2	Prepare/Submit Application to Obtain NOI (Notice of Intent) & SWPPP Upload to SMARTS	1	\$320.00	EA	\$320.00	
1.3	Weekly Visual Inspections- <u>QSP Inspection</u> - Erosion Control, Site Monitoring (Includes quarterly nonstormwater discharge inspections) per CGP/For Duration of Project	1	\$225.00	Visit	\$225.00	
1.4	Pre/During/Post <u>Rain Event</u> QSP Visual Inspections (Includes Preparing REAP, Stormwater Discharge Sampling and Analysis) per CGP/For Duration of Project	1	\$250.00	Visit	\$250.00	
1.5	Submission of Stormwater <u>Annual Report</u> In SMARTS Due Sept 1st of Each Reporting Year (June 30-July 1)	1	\$450.00	EA	\$450.00	
1.6	Prepare/Submit Application to Obtain <u>NOT</u> (Notice of Termination)	1	\$320.00	EA	\$320.00	
1.7	<u>BMP</u> Materials and Installation - BMP Implementation proposal will be sent to awarded contractor upon request	1	TBD	LS	TBD	
Acceptance of	This Bid is good for 30 Days from Bid Date.			Total:	TBD	

1. Payment terms for new customers are C.O.D. Existing Client may receive approval for Net 30

2. Invoices paid after due date are subject to a finance charge computed at a monthly rate of 1.5% (annual percentage rate of 18%). Client is responsible for legal and collection costs if necessary to collect past due amount(s).

3.Client hereby agrees that time shall be of the essence in regard to all payments provided for herein, and if any payment is not made when due, Client agrees to pay all collection costs and expenses including costs of suit and any related attorney's fees and costs and also hereby waives the benefit of any statute of limitation that would prohibit an action of our firm to enforce the terms and conditions of this Contract including but not limited to any right to recovery of attorney's fees and costs. The laws of the State of California shall control all aspects of this contract except as to lien matters, which will be governed by the laws of the state where the subject property is located.

4. Price includes an electronic copy of the final SWPPP. Hard Copies are not included.

Note: Corrections after the plan approval or changes after the work is assigned will be charged as time and material (T&M) basis. QSP rate \$90.00/hour and QSD \$120.00/hour with all services being billed in 2-hour increments.

5.Hard copy manuals: charges at \$150 per SWPPP Caltrans, \$120 per SWPPP Traditional, \$100 per WPCP. Client shall pay for all additional shipping+ handling fee + 15% Mark up. 6.Price of the SWPPP preparation consists of the average of 10-page drawings included in WPCD (Water Pollution Control drawing). Any additional drawing will be charged for \$20 per page 7. In an event that the project has multiple sites, inspection rate will be renegotiated if the inspection time exceeds a total of 45 Minutes or sites are over 3 locations that are over 2 miles awav in radius.

8. Price of this contract is subject to increase for projects that are not commenced for over 90 days from the date that this contract is signed and fully executed

9. Once the proposal is signed/fully executed, no cancellation would be accepted. SWPPP/WPCP plan is project specific document and cannot be utilized for other projects. If for any reason (Client decision, error or Owner/Agency change on requirement) a SWPPP/WPCP document is no longer needed, this contract stay in effect and client is responsible to pay for service in full If the plan requirements for the project are changed after the project is assigned, no cancellation would be accepted, and the plan must be paid in full. The plan payment is non transferrable and cannot be applied to any plan changes or modifications.

10. Additional charges may apply pending client insurance requirements.

- 11. No additional work shall be done without the prior written authorization of Client. Any such authorization shall be on a change order form approved by both parties, which shall become a part of this Contract. Where such additional work is so added to this Contract, it is agreed that the total price under this Contract shall be increased by the price of such additional work, any delinquent service charge may be increased proportionately, and all terms and conditions of this Contract shall apply equally to such additional work.
- 12. It is stipulated and agreed that our firm shall not be liable for any delays occasioned by the elements, labor disputes, strikes, lockouts, Acts of God, fires, inclemency of the weather, changes ordered in the work, unavoidable casualties, the acts or omissions of owners or persons or any other similar or dissimilar causes beyond the control of our firm
- 13.Client is responsible for the labor/material for installment, maintenance, repair of the BMP's per the approved SWPPP. We can provide this scope of work upon request.
- $14. Our firm \ may \ assign \ or \ subcontract \ all \ or \ any \ portion \ of \ the \ work \ to \ be \ done \ under \ this \ Contract.$
- 15.Our firm shall not be held responsible for any existing violations of applicable building regulations or ordinances, whether cited by the appropriate authority or not. Our firm is not held responsible for any preexisting conditions. Correction of any such violations or abnormal conditions shall not be considered part of this Contract and shall be at the Client's expense. 16.Client is responsible to notify our firm 2 weeks prior to commencing their work. In an event that a project starts without proper notification, client is responsible for the payment of the inspections as stated in the contract plus a penalty. Also, Waterboard and the owner will be notified that our firm's certificate was illegally misused, and client deems to be at fault. 17. Our firm is not responsible for any Client negligence and non-compliances of the terms and requirements of the SWPPP and the CGP by the Client or any other parties. Client is required to notify the QSD and the State Water Board of any violations of the permit requirements and non-authorized discharges.
- 18. Client is required to comply with the requirements of the approved SWPPP and all the terms of the Construction General Permit (CGP) ORDER NO. 2009-0009-DWQ NPDES NO. CAS000002
- 19. If at any time any controversy shall arise between our firm and Client regarding anything pertaining to this Contract and which the parties hereto do not promptly adjust and determin then Client and our firm stipulate and agree that the controversy shall, at the election of our firm, be submitted to an determined under the Construction Industry Arbitration Rules of the American Arbitration Association then in effect, and the parties hereto agree to be bound by the Award in such Arbitration. The Award shall be binding, final and be entered as a final judgment in a court of competent jurisdiction.
- 20. Our firm shall not be responsible for Acts of God, fire, storm, flood, landslide, earthquake, theft, vandalism or other disasters or accidents. Owner will purchase insurance at his expense before any work begins that will cover fire, vandalism, malicious mischief and other perils during the course of construction. Our firm will be held harmless for any damage or outcome relating to lack of insurance, vandalism, trespassing, weather, underground services or "Mother Nature".
- 21. Prices listed apply for normal operating business hours. Work performed at night or on Weekends is subject to a change in the proposed rate.
- 22. If the project duration exceeds 12 months from the date of the proposal, prices may be subject to increase.
- 23.This Contract constitutes the entire Contract, and the parties are not bound by any oral expression or representation including those made by any agent of either party purporting to act for or on behalf or either party or by any commitment or arrangement not specified in the Contract. This Contract constitutes the entire Contract, and the parties are not bound by any oral expression or representation including those made by any agent of either party purporting to act for or on behalf or either party or by any commitment or arrangement not specified in the Contract.

Note: Lead compliance plan proposal will be provided upon your request.
Note: public safety plan proposal will be provided upon your request.



April 28, 2022

Charles Malis
Project Engineer
SUKUT Construction

Request for Proposal: City of San Diego-North Miramar Landfill

Suffolk Construction is pleased to provide the following budgetary proposal to furnish and install all labor, electrical materials, lighting and electrical equipment for the North Miramar Landfill organics processing facility.

Processing Building Subtotal = \$500,000.00

Conceptual Estimate:

- Electrical Service, panels, conduit, conductors and terminations: \$280,000.00
- Building lighting: \$80,000.00
- Conduit, conductors and disconnects for rollup doors (supplied by others.): \$60,000.00
- Fiber/communication: \$50,000.00
- Temp power allowance: \$10,000.00
- Filter Area (electric): \$20,000.00

Compost pad and Basin (Bunker Area) Subtotal = \$1,500,000.00

Conceptual Estimate:

- Conduit (underground/above grade-40,000LF)=\$760,000.00.
- Conductors and terminations=\$300,000.00
- Meter/service=\$135,000.00
- Distribution Panels/terminations=\$35,000.00
- Network/Fiber/Communications=\$240,000.00
- Precast Boxes=\$30,000.00

CLARIFICATIONS/QUALIFICATIONS:

- 1. SUFFOLK will be provide access to site during all phases of construction and field progress for investigations.
- 2. Record and design documents reflecting approved design will be made available to SUFFOLK throughout the duration of the project.
- 3. All electrical installation to be installed according to NEC: National Electric Code.
- 4. All work associated with this estimate and project is performed during regular business hours; 6:30am-3:30pm, Monday to Friday.





- 5. Standard 5-8's work schedule. No Overtime included.
- 6. Beta to provide benchmark and elevation control point for survey at the beginning of the project.
- 7. Assumes 1 mob/demob and free and clear access to all areas at once. No overlap with other contractors.
- 8. Material and labor are under **Force Majeure**: This project and estimate are subject to labor and material availability restrictions due to global pandemic and global conflict. This includes increases in material and labor costs associated with this project.
- 9. All additional work to be performed on a time and material basis or COR proposal based on 100% drawings.
- 10. SUFFOLK to be included as equal partner during design process for electrical scope of work.
- 11. Project drawings are 30%. No electrical design has been provided for this project. Pricing is conceptual and is considered budgetary.

EXCLUSIONS:

- 1. Hazardous waste mitigation and/or removal.
- 2. Protection and/or repair of existing conditions (i.e. roadways, landscaping, etc.).
- 3. Fencing/security around construction areas.
- 4. Traffic control plans and permits.
- 5. State, County, Municipality Permitting.
- 6. Trenching, excavation and backfill.
- 7. Slurry, concrete and formed concrete.
- 8. Ground water.
- 9. Trench shoring (if required.)
- 10. Bonds (if required) allow 0.7% to added contract amount prior to contract.
- 11. Storage and security of equipment and materials delivered to site.
- 12. Expedited product delivery
- 13. Solar panels, inverters or system equipment and components.
- 14. Fire Alarm.
- 15. Access control and security.
- 16. Any and all site signage.
- 17. Bollards.
- 18. Any and all site development/grading.
- 19. Inspections.
- 20. Material testing.
- 21. Electrical acceptance testing.
- 22. System ground fault analysis.





- 23. Electrical engineering.
- 24. Holiday and weekend work.
- 25. Structural design and engineering.

James Loh

Account Manager

D | +1 (619) 906 2871

C | +1 (619) 385 9476



Prove impossible wrong

suffolk.com















POLY TEK- ESTIMATE/QUOTE SHEET

Po Box 2232 Capistrano Beach, Ca. 92624 949 445-4293

PATRICK@POLYTEKSUPPLY.COM

Veteran Owned SDVOSB

DVBE/SB CERT # 2015113

We appreciate the opportunity to quote you these rates and look forward to assisting with all of your future needs.

Customer:SUKUT				Requested by		Salesman
Address:			Requested by		TRICK SANGI	
				Telephone		Telephone 49-445-4293
Phone Number:				Purchase Order		Email
						POLYTEKSUPPLY.COM
"Quote Good For 24 Hrs"	Delivery Dat	е	Delivery Time	Job No.	D	elivered By
Date of Quote				lah Nama	Dal	linean Channa
4/29/2022				Job Name	De	livery Charge
PRODUCT	Quan		Size	Color	Price	Total \$
TENSAR AX850	2,961,				0.65	1,924,650.00
12OZ FABRIC	34,1	55	15X402		0.23	7,855.65
FREIGHT	1				11,200.00	11,200.00
BIO WATTLE	200	,	8"X25'		35.25	7,050.00
STAKES, WATTLE	140		0 A23		0.45	630.00
SILT FENCE	50		3'X100'		38.15	1,907.50
FREIGHT	1		37100		300.00	300.00
FREIGITI	1				300.00	300.00
PAYMENT DUE WITHIN 30 DAYS						
CUSTOMER RESPONSIBLE FOR OF	FFLOAD					
	•			SUB TOTAL:		\$ 1,953,593.15
				TAX: NOT ADDED		\$ -
				SHIPPING:		
				TOTAL:		\$ 1,953,593.15
						* .,,
Site Contact:						
Contact Phone:						
Delivery Address:						
Delivery Address.						
Special Disclaimer Below:						
"RATES BASED ON TRUCKLOAD DELIVERIE						
ACCURACY OF SALES TAX RATE. ALL FREI REGARD TO TRAILER TYPE UNLESS OTHER						
SEASON TYPICALLY START IN OCTOBER AI						
THROUGH THE HOLIDAY SEASON. FREIGH						
IN ONE LOCATION. CUSTOMER ASSUMES A POLY TEK IS NOT RESPONSIBLE FOR THE						
DISCREPENCIES PRIOR TO QUOTING AND						
UNDERSTANDS THAT PAYMENT IS DUE WI	ITHIN 30 DAYS OF INVO	ICE D	ATE AND AGREES TO	3.5% LATE FEE THEREAF	ΓER 3.7% CREDIT (CARD FEE. "QUOTE GOOD FOR
24 HOURS FROM QUIOTE DATE."						Quote
Signature Confirming Order:				Credit App Approved	\N	
Drint Name:						Confirmed
Print Name:						Order
D-4						
Date:				1		

Printed on: 7/19/2021 7:45:59 AM

To verify most current certification status go to: https://www.caleprocure.ca.gov



Office of Small Business & DVBE Services

Certification ID: 2015113

Legal Business Name: PATRICK MICHAEL SANGI

Doing Business As (DBA) Name 1:

Poly Tek

Doing Business As (DBA) Name 2:

POLY TEK

Address:

PO BOX 2232

CAPISTRANO BEACH

CA 92624

Email Address:

patrick@polyteksupply.com

Business Web Page:

Business Phone Number:

949/445-4293

Business Fax Number:

Business Types:

Non-Manufacturer

Certification Type

Status

From

To

DVBE

Approved

05/17/2021

05/31/2023

SB(Micro)

Approved

05/17/2021

05/31/2023

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED!
-LOG IN at CaleProcure.CA.GOV

Questions?
Email: OSDSHELP@DGS.CA.GOV
Call OSDS Main Number: 916-375-4940
707 3rd Street, 1-400, West Sacramento, CA 95605



March 21, 2022

RFP Bidder Name for:

City of San Diego RFP K-22-2049-DB1-3-C Proposal for Organics Processing Facility

SUBJECT: <u>EXPANSION BUILD TO MAX</u>: 127K TPY Incremental Processing Capacity for new RFP Organics Processing Facility

Dear RFP Bidder Name,

Sustainable Generation ("SG") is pleased to provide a quotation as described herein for the proposed Compost Project. The GORE® Cover is time proven technology with experience in more than 300 installations worldwide processing over 3.5M tons annually. The SG Bunker® System is simple to operate, modular design with few moving parts to reduce the cost and complexity of processing material for the business operations.

By utilizing the SG Bunker® System with GORE® Covers, the project will have a sustainable and expandable solution that is capable of processing a wide variety of organic materials. The GORE® Cover technology is recognized for delivering in-vessel performance for:

- Reducing Odors and VOC Emissions
- Achieving Pathogen (PFRP & VAR) Reduction
- Clear Separation of Process Water from Storm Water
- Small Footprint
- Low Energy Requirement
- Modular, Expandable Customized Designs
- Feasible for All-Feed Stocks (SSO, BS and MSW) operating in most Varied Climate Conditions
- Simple to Operate Lowest Operating Cost
- Produces a Consistent Stable Compost in shortest treatment time

Our Quotation is for the SG Bunker® System using GORE® Covers equipment and related services and does not include construction costs. This Quotation assumes that the INITIAL BUILD for RFP New Organics Facility has been purchased first and this is incremental capacity: EXPANSION BUILD TO MAX Scope of Supply.



The project requirements and scope of work will need to be further refined as part of the design process. Any equipment and services (such as mixing, screening, front end loader, leachate tank, building, biofilter, etc.) not related to the composting system shall be provided by the owner's project team or supplied by others.

SG is ready to support your project with our team experience gained from the 300+ installations worldwide that are successfully using the GORE® Cover technology.

Sincerely,

Brett Hoyt

VP Sales

Sustainable Generation

110 South Poplar Street, Suite 400

Wilmington, DE 19801 Phone: 303.699.1585

Email: <u>brett.hoyt@sustainable-generation.com</u> Website: www.sustainable-generation.com



EXPANSION BUILD TO MAX: 127K TPY Processing Capacity 36 SG Bunker® System with 27 GORE® Covers Bidder Name Here ("BUYER")

Date: March 21, 2022

This Quotation assumes that the INITIAL BUILD for RFP New Organics Facility has been purchased first and this is incremental capacity: EXPANSION BUILD TO MAX Scope of Supply.

Prepared by Brett Hoyt- email: brett.hoyt@sustainable-generation.com phone: 303-699-1585 Sustainable Generation, LLC in the following referred to as "SG" W.L. Gore & Associates in the following referred to as "Gore"

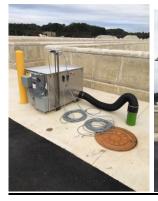
Prepared for:

RFP Bidder Name for: City of San Diego RFP K-22-2049-DB1-3-C Proposal for Organics Processing Facility

SG Bunker® System with GORE® Covers

Shown below: 12 SG Bunker® System with 9 Gore® Covers, Upper Marlboro, MD 2018











1. General:

1.1. Input Materials and Volumes¹:

Input Materials	Source Separated Organics, Yard Waste, Green Waste
-----------------	--

8-Week Process	Quantity
Input tons/year (includes Bulking Agent)	127,000
Specific Weight [lbs./yard ³]:	925

¹ Data provided to SG by CUSTOMER for the purpose of an agreed upon system sizing.

1.2. Number of windrows

Item	Description	Quantity
Phase 1 –High Rate Composting	Covered	18
Phase 2 – Maturation	Covered	9
Phase 3 – Finishing	Uncovered	9
Total		36

1.3. Bunker Design Throughput and Windrow Dimensions

Item	Quantity
Throughput Volume: Cubic Yards per Year	304,743
Throughput tons per year @ 925 lbs./y ³	140,944
Throughput tons per year @ 800 lbs./y ³	121,897
Bunker Length ft.	164
Bunker Width OD ft.	27
Sidewall Height ft.	4
Pushwall Height ft.	4-8
Heap Height ft.	12
Distance behind pushwall for Bunker box ft.	10
Distance between Bunkers ft.	4-7
Driving Space Alley Width ft.	40



1.4. Foot Print: Recommended Minimum Surface Area Including Driving Space²

Item	Quantity
Compost Pad Width ft.	175
Compost Pad Length ft.	1237
Compost Pad Area ft. ²	216,504
Driving Space ft. ²	49,487
Total Compost Pad ft. ²	265,991

²Layout, configuration and driving space shall be confirmed by the CUSTOMER'S professional design engineer and according to local codes and regulations.

1.5. Cover Handling Method

Item Quantity	Quantity	Description
PWM Winder Machine- PWM- 10E	0	Electric powered cover winder for use with GORE® Cover

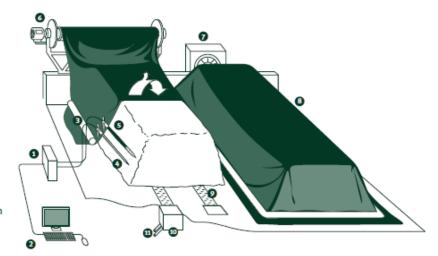


2. SG Bunker® System using GORE® Covers Scope of Supply includes the following:

Diagram below is for illustrative purposes only.



- 1 Control system
- 2 PC
- 3 Rim weight
- 4 Temperature sensor
- 5 Oxygen sensor
- 6 Cover handling device
- 7 Aeration fan
- 8 GORE® Cover
- 9 Aeration and leachate system
- 10 Water trap
- 11 Leachate pipe



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- 2.1. Installation Guide, which includes Specifications and Drawings for the Design Team: Layout and drawings provided by SG are for the purpose of guiding the design configuration and are <u>not</u> to be used for construction. BUYER must consult with a professional engineer and design according to local code and regulations
 - Basic Site Layout for the Phase I, Phase II and Phase III areas of the composting pad
 - Drawings and Specifications for the cover winding system provided.
 - Drawings and Specifications for the In-Ground Aeration System
 - Drawings and Specifications for Cover Fastening System
 - Basic wiring diagrams and power/electrical system drawing to be finalized according to local standards and regulations by a qualified and/or locally certified electrician

2.2. GORE® Cover

Item	Quantity	Description
GORE® Covers	27	Phase 1 & 2 only
Cover Tie Down Straps	Included	

Specified dimensions to fit the heap dimensions as described in Section 1.3. Design and fabrication of each GORE® Cover for use with the winding system provided.



2.3. SG Bunker® System Aeration System with Leachate Collection

Above Ground Components:

ITEM	Quantity
SG Bunker Box Unit- Plug & Play Design	36
Aeration Blower	36
480v, 3-phase power connection ready	36
Cat 6 Network connection ready	36
T-tubes, pipe, couplers	36
Flexible Pipe, couplers, and Hose Clamps	36 sets

In Ground Components:

Item	Quantity
In-Ground Trench System	36 sets
Water Traps	36
PVC Pipe and Fittings Set	36 sets
Trench System Cleanouts	36 Sets

Note: Contractors hired by BUYER must meet the system specifications for the SG Bunker® System and will carry out installation of aeration system, including all relevant parts such as trenches, individual blowers and water traps, pipe, and fittings.

2.4. Compost Control System (CCS)

-	
Item	Quantity
Process Control Unit (PCU)	36
Oxygen Probes (Phase 1 & 2)	27
Temperature Probes	36
Probe Cabling Sets	36
CCS Server	1
Network Switch	2
CCS PCU Software Licenses	36
CCS Server Licenses	1
Computer	Laptop or Smart Device
Process Control Software	Installed
Service Platform Software	Installed
CCS Test Bench	1

Compost Control System is a plug and play solution and will include the following features:

• A Process Control Unit (PCU) for each windrow



- Main power hook-up
- Network Connection hookup
- Emergency stop
- Green control light for power on
- Red control light for blower fail
- Low Volt transformer
- Programmable and Manual Modes Control System
- 5-point temperature probe
- First year Software Licenses included

Note: Requires Public Dedicated Static IP - supplied by Buyer

2.5. Cover Fastening System

Item	Quantity
Rounded Sidewall Cap	36 bunker sets
Stainless Steele Carabiners (Phase 1 & 2)	27 bunker sets
Bungee Cords (Phase 1 & 2)	27 bunker sets
Bunker Toe end fastening system (Phase 1 & 2)	27 bunker sets

2.6. Operations Manuals

- Installation Manual for SG Bunker® System
- Operation Manual on GORE® Cover including safe handling guidelines
- Standard operation manual on the Cover Winder machine.
- All documents will be provided in English on paper

2.7. Spare Parts:

Item	Quantity
Probe Cable	8
Oxygen Probe	4
Temperature Probe	4
Repair Kit for GORE® Cover including laminate	2



3. SG SmartStartTM Service Package Scope of Supply includes:

3.1. Technical Meetings, Site Supervision, Installation Guidance, Start-Up and Commissioning

Meeting Description	
Pre-Design	Included
Pre-Construction	Included
Pre-Installation	Included
Operator Training (1, 2, and 3)	Included
Start Up and Commissioning	Included
Service Platform: Technical Support Training	Included

3.2. Training

Training for Operators	Reference Plant	Duration (Days)	Participants
Training Unit 1 ¹	US Reference Site	3	2-3 people
Training Unit 2 ²	Customer Site	3	na
Training Unit 3 ³	Customer Site	2	na

¹ Training 1 will be held at US reference site during construction phase. BUYER responsible for their travel and lodging expenses.

² Training ² will be held during final installation of equipment and during start up/ commissioning.

³ Training 3 will be held between two (2) months after start up and no later than six (6) months after start up.



3.3. Technical Support

Remote Support Services	Internet and Service Platform Support- 24 hr. Response Time	
	No Charge	
Annual Support Contract	Annual Service Contract	
	• Internets, Phone, and Service Platform Support- 4 hr. Response	
	Time.	
	Remote Diagnostics	
	Annual On-site Service Check and Report	
	Remote Data Backup	
	First 12 months beginning at Commissioning/Startup- No Charge	
	• \$18,000.00 per year after first 12 months	

3.4. Consultancy

Consultancy	On-Site Support	
	No Charge for first 12 months	
	\$1200.00 USD per day per person plus travel /expenses	

BUYER will allow SG or SG Partner to access the plant after reasonable prior notice.

3.5. Software Licenses

CCS Software Licenses	Sustainable Generation Software as a Service Subscription Appendix B
36 PCU Licenses 1 Server Licenses	Non-exclusive License Non-transferable License Includes Software Updates Includes Software New Features/Enhancements First 12 months beginning at Startup/Commissioning- Included/No Charge Annual User Fee: • \$1000 per PCU • \$2000 per Server

3.6. Service Platform

Web based service platform unique to the BUYER with the following capabilities:

- Inventory all components and tracks the warranty
- Online ordering for technical support, component repairs and spare parts
- 24/7 technical support with 24-hour response time
- Tracking tool for technical support



4. Warranties and Guarantees

4.1. Sustainable Generation (SG) warrants that the system as specified in this quotation is designed to process a minimum amount of feedstock as specified in Section 1.1 for a period of 4 years, provided that SG Bunker® System with GORE® Covers was operated in accordance with all Operation Manuals, Trainings and all other relevant instructions or information provided by SG. Warranty will start from date of commissioning or at the latest 6 months after shipment. In the event of claims to this warranty CUSTOMER shall provide access to all available process data.

4.2. GORE® Cover Manufacturer's Warranty:

Each GORE® Cover will be delivered free from defects in materials and workmanship. This Warranty shall be valid for a period of 4 years from date of arrival on CUSTOMER's project site for each new GORE® Cover. For any claim under this Warranty arising within the first 24 months after the defect GORE® Cover of arrival on CUSTOMER's project site, Gore shall repair or replace the GORE® Cover, at Gore's option and expense. For any claim under this Warranty arising within months 25 through 48 of this Warranty, at CUSTOMER's request Gore shall sell to CUSTOMER a new GORE® Cover at the then current price with an allowance deducted from the price for the warranty period which has already passed according to the following formula: Price to be paid by CUSTOMER = Full Price multiplied by (months of warranty coverage passed divided by 48).

This Warranty does not apply for defects resulting of natural wear and tear, or if the GORE® Cover is punctured or torn by a sharp object, or otherwise damaged due to exterior influences, such as rodents, birds, mechanical impact such as inadmissible strong tie down, etc., or if the GORE® Cover was not operated in accordance relevant instructions or information provided by Gore. In the event of claims to this Warranty, CUSTOMER shall provide access to all available data related to the operation of the defect GORE® Cover and, if necessary, access to the site where the defect GORE® Cover has been operated.

The CUSTOMER has to inspect the GORE® Cover immediately following delivery for the absence of defects and for completeness and to notify any defects thus discovered to SG in writing within 14 calendar days. If the CUSTOMER fails to perform the inspection or to notify the defects in good time, the goods supplied are deemed to be approved, unless the defect could not be identified at the time of the inspection.

CUSTOMER remains entirely responsible for following the guidelines about handling of the GORE® Cover with the winding device and to provide proper training to its operators.

- 4.3. Sustainable Generation Software as a Service, is provided subject to the exclusive warranty set forth in the SaaS Subscription Agreement, and attached SLA, Appendix B.
- 4.4. For other equipment supply of the SG Bunker® System from Sustainable Generation (SG) the warranty period shall be valid for 12 months from the date of commissioning of the facility or six months after shipment, whichever date is earliest. This equipment supply is the aeration blowers, trenches systems with water traps, and the cover handling device. The Compost Control System components (CCS), and communications network are subjects to a warranty period of 12 months. Sensors, sensor cables and connectors are subject to a warranty period of 6 months. The Warranty is limited to defects which cannot be attributed to natural wear or improper use or treatment. For all other parts, we only act as a reseller of such as the Laptop or PC computer and printer, and hereby assign the manufacturer's warranties and representations, to the extent assignable.



- 4.5. Any parts and equipment which are subject to claim shall be returned to SG free of freight and customs and excise duty, in so far as no other express agreement has been reached to the contrary. Claims must be sent in writing and by registered letter. If such claims are recognized by SG, we shall repair the relevant items as quickly as possible or replace them at our discretion. Freight and packaging costs shall be SG responsibility. Parts which are replaced shall remain SG property.
- 4.6. Any liability as set forth in this section is in each case limited to the value of the specific component product in connection with which the damaging event has occurred.
- 4.7. As a precondition to any of the warranties offered under this Agreement, (i) BUYER is responsible for operating the SG Bunker® System with GORE® Covers in accordance with all Operation Manuals, Training, and all other relevant instructions or information provided by SG; if parties other than SG have modified or changed the SG products or Service deliverable; the claim arises out of the use of the SG Products or service with products or services not provided or approved by SG
- 4.8. BUYER is solely responsible to operate SG Bunker® System and GORE® Cover in compliance with applicable law.
- 4.9. All limited warranties on the SG Products and Services are granted only to Buyer and are non-transferable. THESE WARRANTIES REPRESENT BUYER EXCLSUIVE REMEDY AND SG'S EXCLSUIVE LIABILITY FOR ANY WARRANTY DEFECTS. SG MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE: EXCEPT AS STATE ABOVE, SG SHALL HAVE NO OBLIGATION OR LIABILITIES TO BUYER OR ANY OTHER PERSON FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL OR INCIDENTIAL DAMAGES, ARISING OUT OF OR RELATED TO THIS AGREEMENT, THE USE OR PERFORMANCE OF GOODS AND SERVICES PROVIDED UNDER THIS AGREEMENT, OR IN ANY OTHER MANNER.



5. **BUYER Responsibilities:**

5.1. BUYER is responsible for construction and installation. BUYER agrees to consult with a professional engineer and design according to local code and regulations.

5.2. Installation Supply:

- Provide a staging area for shipping containers and unloading the equipment into a secure and dry area (housing for the control system, space for the other parts).
- Provide workspace and lay-down area for the partner companies including communication (telephone, fax and internet).
- Provide access to standard hand tools (wrenches, hammers, screwdrivers, drill etc.) and temporary power
- Provide front-end loader, forklift, crane and trained equipment operators.
- Note: The Container holding the cover winder machine has to be unloaded to the ground without being opened or any parts removed. Container shall only be opened by SG or SG partner.

5.3. Site Construction, Installations, and Parts provided by BUYER:

- Site preparation as per permit requirements adapted to local specifications.
- All concrete, mechanical, electrical work for construction and installation of compost pad, Bunkers, push walls, leachate collection from water traps, and electrical power.
- Installation of aeration system, including all relevant parts such as trenches, individual blowers and water traps, pipe, and fittings.
- Facility shall have adequate space for reception, storage, pre-treatment, mixing, screening and storage of the finished compost.
- Impervious Surface for Compost Pad. Concrete, asphalt, or other SG approved surface.

5.4. Electrical Installations provided by BUYER:

• All electrical installations including electrical and network conduits, electrical wiring, Cat 6 and/or Fiber Optic Cables, disconnects, and final power and network connections to SG system box, to be provided and installed by BUYER by a qualified and/or locally certified electrician.

5.5. Process Supply by BUYER:

- Feedstock as specified for the start-up and the process
- Provide machinery such as front-end loader, grinder, screen, turner and water supply.
- A site supervisor and a main contact person to be provided by BUYER, being knowledgeable about and held accountable for the operations being in compliance with all applicable safety and environmental regulations.

5.6. Network Connection provided by BUYER

• Public Dedicated Static IP address to server, network, and all SG system boxes.



6. Terms

6.1. Confidentiality

"Confidential Information" means any information one party discloses to the other under this Agreement which is identified as confidential or proprietary. By way of example but not limitation, the content of this quotation and all other information in conjunction with SG Bunker System with GORE® Covers and its system components, which has been disclosed or will be disclosed by SG, is confidential. BUYER may not communicate Confidential Information to third parties. BUYER confirms to disclose Confidential Information to no more than those employees and contractors to whom disclosure is reasonably necessary for the operation of the Facility or for the evaluation of this quotation. Confidential Information does not include information which: is rightfully obtained by the recipient without breaching any confidentiality obligations; is or becomes known to the public through no act or omission of the recipient; the recipient develops independently without using Confidential Information; or is disclosed in response to a valid court or governmental order if the recipient notifies the disclosing party and assists in any objections. The recipient may use Confidential Information only for the purposes for which it was provided under this Agreement, and shall treat it with the same degree of care as it does its own similar information, but with no less than reasonable care. The signing of this contract does not affect any existing confidentiality agreement.

6.2. Payment Terms

Requirement	Rate	Action/ Deliverable	Invoiced
Payment #1	5%	Design/ Installation Guide	Upon Agreement Signing
Payment #2	30%	Notice to Proceed/ Production/ Ship	Production of Components
Payment #3	60%	Shipment to Site/Installation	Arrival on Site
Payment #4	5%	Start Up/Commissioning	Commissioning

All payments received past the payment due date will be charged a late payment fee of 1.5% per month in addition to any collection costs or expenses incurred, including court costs and reasonable attorney fees.

6.3. Time schedule:

- SG and BUYER will set a specific time schedule for: when, what, in which way Action Items/ Deliverables will be received after this contract is signed.
- Delivery date to be determined. BUYER will issue to SG a Notice to Proceed/ Production; thereafter BUYER should allow 12-20 week lead-time for the shipment to arrive on-site after receiving Payment #2. Lead time on PWM cover winder machines may be longer, please check with SG for current delivery lead times.

6.4. General terms and conditions

- The Terms and Conditions of Sustainable Generation (Appendix A) shall apply. In the event of any inconsistency between the terms and conditions of this Quotation and the Terms and Conditions of SG, the Terms and Conditions of the Quotation will prevail.
- All other terms are expressly rejected.



6.5. Pricing

This Quotation assumes that the INITIAL BUILD for RFP New Organics Facility has been purchased first and this is incremental capacity: EXPANSION BUILD TO MAX Scope of Supply.

Item	Configuration	Pricing (\$USD)
SG Bunker® System	36 SG Bunker® Systems with 27 GORE® Covers Bunker Design: 164 ft. Length x 27 ft. Width x 12 ft. Height 36 Compost Control Systems 36 Bunker Aeration System with In-ground trenching 27 Bunker Cover Fastening System	Included
SG SmartStart TM Service Package	Installation Guide, Pre-Design/Construction/Installation Meetings, Commissioning & Start-up Services, Training	Included
	BASE PRICE: EXPANSION BUILD TO MAX	\$7,159,712,00

- Duty and Shipping included
- ➤ All other applicable Taxes not included and are payable by BUYER
- > Tariffs not included, if any, and are payable by BUYER
- ➤ Prices are valid for 120 days from April 12, 2022, and thereafter is subject to PPI adjustment with price adjustment based upon the time of Arrival of Order (ARO). The ARO will be based upon price change as published by the US Bureau of Labor Statistics Producer Price Index (PPI), substitutions or adjustments will be based upon then current pricing for any such new or additional Products or Services.

6.6 Cancellation

- BUYER may reschedule, terminate or cancel the Order by written notice to SG prior to SG Shipment. Orders cancelled prior to the issuance of a Notice to Proceed for production and shipment and will be subject to a cancellation charge based on the percentage of work completed. The cancellation charge may not exceed an amount of \$100,000.00 USD (One Hundred Thousand United States Dollars) in total. Rescheduling shall be limited to once per order and remains subject to mutual agreement of the Parties. In the event the rescheduling creates an additional expense the parties may treat the rescheduling request as a change order where that change remains subject to compensation for those incremental expenses actually incurred as a condition for rescheduling.
- Orders terminated or cancelled by BUYER after the issuance of a Notice to Proceed for production
 and shipment will be subject to the Sustainable Generation LLC Terms and Conditions attached to
 this quote.

6.7 Applicable Law; Jurisdiction

• This Quotation is governed by the substantive law of the State of Delaware, without regard to its principles regarding the conflict of laws. The United Nations Convention for the international sale of goods shall not apply. The parties agree to the jurisdiction of the United States District Court for the District of Delaware and the courts of the State of Delaware for the resolution of any litigation relating to this Agreement.



Contract partner and seller is Sustainable Generation, LLC of Wilmington, Delaware.

Validity of this Quotation is 60 Days from Date of Offer.

Quotation acceptance subject to SG Confirmation

SG reserves the right to correct any errors and omissions in this Quotation.

Please return approved quotation by:

- Scan/email to: brett.hoyt@sustainable-generation.com
- Mail two (2) originals to:

Sustainable Generation, LLC 110 South Poplar Street, Suite 400 Wilmington, DE 19801

Offered: March 21, 2022
Sustainable Generation, Inc.

BUYER: ______

Brett Hoyt
VP Sales – North America
Sustainable Generation LLC
110 South Poplar St., Suite 400
Wilmington, DE 19801

Company: ______

Date:



APPENDIX A: Sustainable Generation's Terms and Conditions

(Page intentionally left blank)



TERMS AND CONDITIONS of Sustainable Generation, LLC

- AMOUNT AND TYPE OF GOODS: Seller agrees to sell and Buyer agrees to buy the quantity and type of products and/or services (the "Products") which are described in this Agreement.
- 2. <u>ENTIRE AGREEMENT:</u> This Agreement together with any SOW or any software licenses or SaaS Subscription Agreements incorporated by reference represents the entire integrated agreement between Buyer and Seller and supersedes all prior negotiations, representations or agreements, either written or oral. These terms may be amended only by a written instrument signed by both Buyer and Seller.
- 3. <u>INSPECTION, CLAIMS FOR DEFECTS OR LATE DELIVERY:</u> Buyer shall have the right to inspect the Products after delivery. Buyer shall give Seller prompt written notice of any damaged, defective or non-conforming Products and shall make all rejected Products available to Seller for inspection. Services are deemed accepted upon delivery; unless Buyer rejects those services as defective in writing within 2 bsuiness days. Failure of Buyer to give written notice of Product rejection to Seller within sixty (60) days from the date of delivery constitutes Buyer's irrevocable acceptance of the Products. Buyer is entitled to inspect the Products at any stage of manufacturing, but Seller reserves the right to restrict access to certain machinery, processes, and information that Seller deems proprietary. Seller shall have no obligation to replace or provide credit for Products claimed to be defective unless Seller receives representative samples of the Products and an opportunity to examine the Products at a place convenient to the Seller. In the event that Buyer elects to accept a part of a delivery, it is agreed that the portion of Products rejected shall be returned to Seller within thirty (30) days following Seller's authorization. For rejected service, Seller will promptly provide Buyer with a like amount of replacement services their own cost and expense.
- 4. **DELIVERIES:** The delivery of the Products shall be made, in a single or in multiple lots, as specified in the Agreement, or within a reasonable time thereafter. The delivery schedule shall be considered extended by a period of time equal to the time lost due to any delay for causes beyond Seller's reasonable control. Seller's failure to make delivery of any item or to meet any delivery date shall not affect future deliveries or excuse Buyer from paying any installment when due. Buyer's failure to pay any installment when due shall excuse Seller from making further deliveries. Buyer shall confirm the suitability of Seller's standard manufacturing lead times prior to placing orders. Seller reserves the right to charge expediting fees for deliveries requested in advance of Seller's standard lead-time. With respect to each delivery obligation contained in this Agreement: (i) Tender of a shipment to any licensed carrier shall constitute delivery to Buyer; (ii) Seller shall use its best efforts to deliver in accord with the schedule specified in this Agreement. Any delivery not in dispute shall be paid for in accordance with that order's terms by Buyer, regardless of any dispute as to other delivered or undelivered goods. Seller is not obligated to package goods for outside storage. Deliveries of up to ten percent (10%) above or below quantities specified in the order shall be accepted by Buyer and the invoice price will be adjusted accordingly. Unless otherwise specified by Seller, delivery terms are to be Ex Works (Incoterms 2000) Seller's manufacturing site.
- 5. <u>TITLE; RISK OF LOSS:</u> Unless otherwise agreed by the parties, risk of loss or damage to the Products shall pass to the Buyer upon delivery. Buyer shall receive title to the Products upon Seller's receipt of payment in full for the Products delivered. Buyer remains separately responsible for expense incurred in the transportation, handling and insurance in transit. Buyer will reimburse Seller for these expenses and where Buyer fails to designate a carraier, Buyer will make that designation and the transportation company will not be considered an agent of Seller.
- PRICING OF BULK PURCHASE ORDERS: Unless otherwise agreed by the parties, installment deliveries extending over six months from the original order date will be invoiced at Seller's then-prevailing unit price. 7. WARRANTY: Seller warrants that at the time of delivery, the Products are free from defects in materials and workmanship and conform to Seller's specifications, and, if applicable, acceptance criteria to which Seller has agreed in writing. Buyer retains sole responsibility for determining whether the Products are fit for the intended use, and for suitability of qualification and acceptance criteria. Claims for defects must be received by Seller within one (1) year from delivery of the Product on which the claim is based. Buyer's remedy will be limited to repair, replacement or refund for those Products which Seller verifies are defective. This warranty is conditioned upon (a) proper storage, installation, use, operation, and maintenance of the Products, (b) Buyer keeping accurate and complete records of operation and maintenance during the warranty period and providing Seller access to those records, and (c) modification or repair of the Projects only as authorized by Seller. Failure to meet any such conditions renders the warranty null and void. Seller is not responsible for normal wear and tear. As a precondition to any of the warranties offered under this Agreement, (i) Buyer is responsible for operating the Products in accordance with all Operation Manuals, Training, and all other relevant instructions or information provided by Seller; and (ii) operations of the Products in compliance with applicable law including any safety, security or data privacy regulations. This warranty excludes claims based upon Products that have been modified or changed; as well as any claim that arise out of the use of the Products or service with products or services not provided or approved by SG. All limited warranties on the SG Products and services are granted only to Buyer and are non-transferable. THESE WARRANTIES REPRESENT BUYER'S EXCLSUIVE REMEDY AND SELLER'S EXCLSUIVE LIABILITY FOR ANY WARRANTY DEFECTS. SELLER MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE: EXCEPT AS STATE ABOVE, SELLER SHALL HAVE NO OBLIGATION OR LIABILITIES TO BUYER OR ANY OTHER PERSON FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL OR INCIDENTIAL DAMAGES, ARISING OUT OF OR RELATED TO THIS AGREEMENT, THE USE OR PERFORMANCE OF GOODS AND SERVICES PROVIDED UNDER THIS AGREEMENT, OR IN ANY OTHER MANNER.
- 8. INDEMNITY AGAINST INFRINGEMENT: Seller will, at its expense, defend Buyer against any claim by a third party that the products delivered hereunder infringe any intellectual property right and will pay all costs, damages, and attorney's fees that a court finally awards as a result of such claim. To qualify for such defense and payment, Buyer must give Seller prompt written notice of such claim and allow Seller to control, and fully cooperate with Seller in, the defense and all related settlement negotiations. Seller shall have no obligation with respect to any claim of direct or contributory infringement based upon modification of the products furnished by Seller or their combination, operation, or use. Seller shall have no obligation with respect to any claim of direct or contributory infringement based upon use of the Products or services in a manner for which the Products were not designed Buyer shall hold Seller harmless against any such claim arising out of compliance with specifications furnished by Buyer. This Article 8 states Seller's entire obligation to Buyer regarding claims of infringement, whether direct or contributory, involving intellectual property rights of third parties. Neither party shall have the obligations set forth in this Article 8 if an infringement claim is brought against a party protected from such a claim pursuant to government regulations.
- 9. <u>CHANGES:</u> Either party may at any time propose changes to the specification or scope of Products. All changes to the specification or delivery schedule will require a written agreement between the parties which will, at minimum, include the changes in the scope, delivery schedule and resulting change in price. Seller reserves the right to improve and make changes to Products sold hereunder without notice or approval of Buyer, except for changes that materially modify the form, fit or function of the Product contained the specifications.



- 10. CANCELLATION OR RESCHEDULING: Except as otherwise provided in the Agreement, orders cancelled by Buyer other than for default of Seller will be subject to a cancellation charge based on the percentage of work completed as a percentage of the contract price or such other reasonable charge as Seller may apply. Buyer will be entitled to receive any Products for which Seller has received payment in full. Seller, in its sole discretion may waive its claim for the value of work in progress. Buyer's cancellation request(s) must be in writing. Rescheduling shall be limited to once per order and remains subject to mutual agreement of the Parties. In the event the rescheduling creates an additional expense the parties may treat the rescheduling request as a change order where that change remains subject to compensation for those incremental expenses actually incurred as a condition for rescheduling.
- 11. TECHNICAL DATA AND PROPRIETARY INFORMATION: Seller has no obligation to provide technical data other than its standard finished Product inspection data. Seller has no obligation to perform, and this is not an Agreement for, research, developmental or experimental work. Seller has no obligation to disclose, convey rights or allow access to technical, financial, or other information protected by it as proprietary or to indemnify Buyer for such refusal to disclose.
- PAYMENT: Buyer shall pay Seller for the Products by paying all invoiced amounts in U.S. Dollars, without set-off, reduction or adjustment within thirty (30) days from the invoice date. For each calendar month, or fraction thereof, that payment is late, Buyer shall pay interest computed at the rate of 1.5% per month, or the maximum rate permitted by law, on the overdue balance. If it is necessary for Seller to enforce any provision of this Agreement, Buyer agrees to reimburse Seller for all legal and other reasonable costs related thereto, including attorneys' fees, court costs, administrative time, and other collection costs, whether or not Seller initiates court proceedings. Buyer shall also pay all costs, attorney's fees, filing fees, and/or administrative fees in the event Buyer appeals any decision or order from a judicial proceeding against Seller. Seller reserves the right to alter Buyer's credit limit, if any, at any time, or to require payment in full for any order or prior order before delivery. If Buyer fails to pay any invoices when due, Seller may terminate this Agreement and cancel or delay all future deliveries without otherwise affecting Seller's rights hereunder. As partial payment of sums due hereunder, Seller may accept any check or other tender of payment without entering into an accord and satisfaction and without prejudice to the Seller's right to the remainder due or to become due hereunder notwithstanding any terms or conditions endorsed on or stated in any communication related to such check or other tender. Seller may apply any amounts tendered by Buyer as Seller determines, in its sole discretion, whether under this Agreement or otherwise. All prices quoted are exclusive of taxes.
- 13. FORCE MAJEURE: Seller shall not be liable for any delay in delivery or for non-delivery, in whole or in part caused by the occurrence of any contingency beyond the control either of Seller or suppliers to Seller, including but not limited to war (declared or not), sabotage, insurrection, rebellion, riot or other act of civil disobedience, act of public enemy, failure or delay in transportation, act of any government or any agency or subdivision thereof, judicial action, labor dispute, fire, accident, explosion, epidemic, quarantine restrictions, storm, flood, earthquake, shortage of labor, fuel, raw material or machinery or technical failure, where Seller has exercised ordinary care in the prevention thereof. If any contingency occurs, Seller may allocate production and deliveries among Seller's BUYERs.
- 14. **REPRESENTATIONS AND CERTIFICATIONS:** Seller makes no representations or certifications in connection with this Agreement except those which are expressly contained within these Terms of Sale and, if any, those provided separately which are signed and dated by the Seller and made exclusively applicable to this Agreement.
- 15. CONFIDENTIALITY: "Confidential Information" means any information one party discloses to the other under this Agreement which is identified as confidential or proprietary. By way of example but not limitation, the content of this quotation and all other information in conjunction with Products including the SG Bunker System with GORE® Covers and its system components, which has been disclosed or will be disclosed by SG, is confidential. BUYER may not communicate Confidential Information to third parties. BUYER confirms to disclose Confidential Information to no more than those employees and contractors to whom disclosure is reasonably necessary for the operation of the Facility or for the evaluation of this quotation. Confidential Information does not include information which: is rightfully obtained by the recipient without breaching any confidentiality obligations; is or becomes known to the public through no act or omission of the recipient; the recipient develops independently without using Confidential Information; or is disclosed in response to a valid court or governmental order if the recipient notifies the disclosing party and assists in any objections. The recipient may use Confidential Information only for the purposes for which it was provided under this Agreement, and shall treat it with the same degree of care as it does its own similar information, but with no less than reasonable care. The signing of this contract does not affect any existing confidentiality
- . The terms of this Paragraph shall survive termination of the Agreement for any reason.
- 16. <u>LIMITATION OF LIABILITY:</u> The total liability of Seller for call claims of any kind arising from or related to the formation, performance or breach of this Agreement, or any Products or Services, shall not exceed te lesser of (i) \$100,000, or (ii) if Buyer places multiple order(s), the price of each particular order for all claims arising from or related to that order.
- 17. INDEMNIFY AND HOLD HARMLESS: The BUYER agrees to Indemnify and Hold Harmless Seller, its agents, servants, authorized partners, and employees, from any and all loss, damage, liability or expense, including attorneys' fees, including but not limited to all claims for damages on account of or by reason of bodily injury, including death, which may be sustained or claimed to be sustained by any person, and all damages to property, caused by or in connection with BUYER's use, possession, ownership, or future sale/disposal of the equipment.
- 18. SAVINGS CLAUSE: If any provision of this Agreement is found to be void or unenforceable, the remainder of the Agreement shall not be affected. The parties will endeavor to replace any such void or unenforceable provision with a new provision that achieves substantially the same practical and economic effect and is valid and enforceable.
- 19. <u>COUNTERPARTS:</u> This Agreement may be executed in multiple counterparts that together shall constitute one Agreement.
- 20. <u>APPLICABLE LAW; JURISDICTION:</u> This Agreement is governed by the substantive law of the State of Delaware, without regard to its principles regarding the conflict of laws. The United Nations Convention for the international sale of goods shall not apply. The parties agree that the US District Court for the District of Delaware or the Courts of the State of Delaware have exclusive jurisdiction over the resolution of disputes arising under this Agreement. The parties hereby expressly agree to personal jurisdiction within the State of Delaware.

APPENDIX A: SG Software as a Service Subscription Agreement

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SG Software as a Service Subscription Agreement

SG Software Product (the "Software Product") provides the functionality as specified in the printed SG software product documentation, Attachment A. The Software Product including any included data and accompanying documentation are the proprietary property of Sustainable Generation, Inc. ("SG").

DEFINITIONS: These terms when referenced in this Agreement have the following meaning:

- a) "SG Cloud Services Environment" refers to the combination of hardware, software and Software Product owned, licensed, subscribed to, or managed by SG to which SG grants the Licensee and Users access to portion of the SG Cloud Service Environment as part of the SG Cloud Services that are described in the SG Sales Ouote.
- b) "SG Software Service Description" is the formal SG description of the commercial service offering defining the scope and coverage of the service, referenced in the SG Sales Quote and attached to this Agreement as Attachment A.
- c) "SG Sales Quote" is a formal SG offer for the sale of specified products and services pursuant to this Agreement, which shall be effective upon Licensee's execution thereof.
- d) "Licensee Data" means "means any data, content, code, video, images, questionnaires or other materials of any type that Licensee uploads, submits or otherwise transmits to or through the Software; (ii) reports and documents generated by SG or the Software Product from such data, content, code, video, images questionnaires or other materials submitted by or on behalf of Licensee.
- e) "Users" means those employees, contractors, and end users, as applicable, authorized by the Licensee to use the Software in accordance with this Agreement. For Software that are specifically designed to allow the Licensee's customers, suppliers or other third parties to access the Software to interact with the Licensee, such third parties will be considered "Users" subject to the terms of this Agreement.

Acceptance

YOU ("LICENSEE") BY YOUR USE OF HE SOFTWARE ACCEPTS AND AGREES TO BE BOUND BY THE TERMS OF THIS AGREEMENT, LICENSEE FURTHER ACKNOWLEDGESTHIS FACT BY SELECTING THE "ACCEPT" OPTION AFTER LOGGING IN TO THE SOFTWARE PRODUCT WITH A REGISTERED USER ID. LICENSEE MUST AGREE TO ALL OF THE TERMS OF THIS AGREEMENT BEFORE LICENSEE WILL BE PERMITTED LAWFUL ACCESS TO THE SOFTWARE PRODUCT. IF LICENSEE DOES NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, LICENSEE MUST SELECT "DECLINE"; AND LICENSEE MUST NOT ACCESS OR OTHERWISE USE THE SOFTWARE PRODUCT.

SG reserves the right to require Licensee to periodically renew its acceptance and agreement to the terms of this Agreement by requiring Licensee to select the "Accept" option after logging in to the Software Product with a registered user ID and password, including, without limitation, in the event SG provides an enhancement, improvement or modification to the Software Product or if SG amends or modifies the terms of this Agreement. However regardless of any such renewal, Licensee acknowledges that the terms of this license continue to govern Licensee's use of the Software Product, as well as any modifications or additions provided by SG or through Licensee's access to the SG Cloud Services Environment.

License Grant

Subject to Licensee's compliance with the terms and conditions of this Agreement, SG grants to Licensee a terminable, non-exclusive, non-transferable license to use Software Product solely in Licensee's internal business operations. Licensee's rights to use the Software Product shall be limited to those expressly granted in this Software as a Service Subscription License Agreement ("Agreement"). All rights not expressly granted to Licensee are retained by SG. The Software Product is protected by copyright laws, trade secret, as well as laws and any applicable regulations an/or treaties related to other forms of intellectual property. SG owns all intellectual property rights in the Software Product and derivatives thereof.

The license granted by this Agreement shall apply only for the number of user id's and capacity limitations as set forth in the associated SG Sales Order under this Agreement, and shall only be valid for such time as the Subscription Agreement remains in full force and effect. Licensee shall take appropriate steps, including limiting access to user IDs and passwords, to limit access to the Software Product to those Users from its employees who are authorized to use the Software Product and to agree to the terms of this Agreement on behalf of Licensee.

Restrictions on Transfer, Use, Alteration and Copying

Licensee may not, without SG's prior written consent, conduct, cause or permit the: (i) use, copying, modification, rental, lease, sublease, sublicense, or transfer of the Software Product except as expressly provided in this Agreement; (ii) creation of any derivative works based on the Software Product or its accompanying documentation including but not limited to translations, (iii) alteration of any files or libraries in any portion of the Software Product, or reproduction of any tables or reports relating; (iv) reverse engineering, disassembly, or decompiling of the Software Product; (v) use of the Software Product in connection with service bureau, facility management, timeshare, service provider or like activity whereby Licensee operates or uses the Software Product for the benefit of a third party; or (vi) use of the Software Product by any party other than Licensee its subcontractors and agents acting on Licensee's behalf and subject to the terms of this license. Any violation of this section shall result in immediate termination of this Agreement, which termination shall not be exclusive of other remedies available to SG.

Except for the purposes of training, translation, Licensee's internal backup, operational support or internal distribution, Licensee may not copy or allow others to copy any part of the user documentation or other printed material provided with the Software Product.

Hosting

Licensee shall bear sole responsibility for any information uploaded or supplied by Licensee in connection with use of the Software Product. Licensee represents and warrants to SG that it has the rights, permission and consents necessary to lawfully use any information uploaded or supplied by Licensee in connection with use of the Software Product. Licensee shall maintain copies of any information uploaded or supplied in connection with use of the Software Product. IN NO EVENT SHALL SG BEAR ANY LIABILITY FOR THE USE OR LOSS OF ANY INFORMATION UPLOADED OR SUPPLIED BY LICENSEE IN CONNECTION WITH USE OF THE SOFTWARE PRODUCT.

Limited Warranty

SG represents and warrants to Licensee that the Licensee's use of the Software Product will in substantial compliance with the printed product information for a period during the term of SG Software Product license term; in the event a term is not stated the license term will be presumed to be one year and the warranty will expire along with your right to use the SG Software Product. In the event of a breach, Licensee will promptly notify SG of the non-conformity in writing and SG will use reasonable commercial efforts to repair the Software Product to operate in compliance with its written description. SG does not warrant against uninterrupted operation or for any data

loss. All warranties cover only defects arising under normal use and do not include malfunctions or failure resulting from misuse, abuse, neglect, alteration, problems with electrical power, acts of nature, unusual temperatures or humidity, improper installation, or damage determined by SG to have been caused by Licensee. All limited warranties on the Software Product are granted only to Licensee and are non-transferable. Licensee agrees to indemnify and hold SG harmless from all claims, judgments, liabilities, expenses, or costs arising from Licensee's breach of this Agreement and/or acts or omissions. This remedy represents SG's exclusive duty and Licensee's sole remedy even in the event that the remedy should fail in its essential purpose.

Disclaimer of Additional Warranties and Limitation of Liability

EXCEPT AS EXPLICITLY PROVIDED IN THIS AGREEMENT OR OTHERWISE AGREED TO IN WRITING BY SG, SG MAKES NO WARRANTIES, EXPRESS OR IMPLIED, IN FACT OR IN LAW, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OTHER THAN AS SET FORTH IN THIS AGREEMENT.

SG WILL NOT, UNDER ANY CIRCUMSTANCES, BE RESPONSIBLE OR LIABLE FOR THE INTERUPTIONS IN OPERATIONS OF THE SOFTWARE PRODUCT OR FOR ANY LOSS OF DATA ON ANY COMPUTER OR INFORMATION STORAGE DEVICE. TO THE EXTENT THAT THE APPLICABLE JURISDICTION LIMITS SG'S ABILITY TO DISCLAIM ANY IMPLIED WARRANTIES, THIS DISCLAIMER SHALL BE EFFECTIVE TO THE MAXIMUM EXTENT PERMITTED. IN NO EVENT WILL SG'S LIABILITY FOR ANY DAMAGES TO LICENSEE EXCEED THE SUBSCRIPTION FEES PAID BY LICENSEE PURSUANT TO THE SUBSCRIPTION AGREEMENT.

Indemnification

Licensee shall defend, indemnify and hold harmless SG from any demand, suit, cause of action, judgment, liability, cost or expense (including court costs and reasonable attorney's fees) ("Claims") arising out of or in connection with (i) a breach of this Agreement by Licensee, (ii) any information uploaded or supplied by Licensee in connection with use of the Software Product or (iii) any act, error or omission of Licensee or any of its officers, directors, agents, employees or subcontractors.

SG shall defend Licensee, at SG's expense, against any Claims, excluding actions based upon Licensee submitted data or public domain data, made or brought against Licensee by a third party alleging that the use of the Software Product as contemplated hereunder, infringe a patent, copyright, trademark, or other intellectual property right of a third party or misappropriates such third party's trade secrets. Further, SG shall indemnify and hold Licensee harmless against all costs (including reasonable attorneys' fees) to the extent arising out of or in connection with such Claims. Upon receiving notice of a Claim, Licensee shall (a) give SG prompt written notice of the Claim; (b) give SG sole control of the defense and settlement of the Claim (provided that SG may not settle or defend any claim unless it unconditionally releases Licensee of all liability and does not attribute any blame or contributory fault to Licensee); and (c) provide to SG, all reasonable assistance in the defense or settlement of such Claim. In addition to SG's obligations above, SG may, at its expense: (a) secure the right for Licensee to continue to use the Software, (b) modify the Software so as to make it non-infringing, or (c) provide Licensee with a functional non-infringing replacement. If none of these alternatives is commercially practicable, Licensee will have the option to return the Software Product to SG, and SG will refund a pro-rated amount of the fees paid for the current subscription term, using straight line depreciation. This Section states SG's entire liability, and Licensee's exclusive remedy, for any claim of intellectual property infringement under this Agreement.

Equitable Relief

Licensee acknowledges that any use or disclosure of the Software Product in a manner inconsistent with the terms of this Agreement may cause SG irreparable damage for which other remedies may be inadequate, and Licensee

agrees not to oppose any request to a court of competent jurisdiction by SG for injunctive or other equitable relief seeking to restrain such use or disclosure. Licensee waive any right it may have to require SG post a bond or other form of security as a precondition to any such injunctive relief.

Where SG processes PII as that term is defined in General Data Protection Regulation EU 2016/679 or as may be applicable under associated State law ("PII"), SG will be a processor and shall acting on behalf of Licensee as controller and will, in addition to compliance with the obligations set out in this PII Supplement:

- (A) ensure that any of its employees, agents or independent contractors with access to PII are subject to a contractual or statutory obligation to keep PII confidential;
- (B) promptly notify Licensee: (1) if SG is legally required to process PII otherwise than as instructed by Licensee before such processing occurs, unless the law requiring such processing prohibits SG from doing so on an important ground of public interest; and (2) of any instruction given by Licensee in relation to PII which, in SG's opinion, infringes applicable law;
- (C) assist Licensee: (1) in ensuring compliance with Licensee's obligation to respond to requests for exercising data subject's rights under European Data Protection Law or applicable State law; and (2) in relation to any data protection impact assessment, notification or regulatory consultation that Licensee is legally required to make in respect of European or State law for known or suspected Security incidents involving thee PII;
- (D) not subcontract any of its processing operations under the relevant Purchase Agreement or Purchase Order unless SG has: (A) obtained specific prior written consent of Licensee to do so; or (B) obtained general written authorization of Licensee to do so and has notified Licensee of any intended changes concerning the addition or replacement of service providers, giving Licensee the opportunity to object to such changes;
- (E) not export any European PII which is processed within the European Economic Area without the prior written permission of Licensee and, where permission is granted, taking such steps as Licensee may reasonably require in order to ensure such export is carried out in accordance with European Data Protection Law.

Legal Compliance.

Licensee must ensure that Licensee's use of Software and all Licensee Data is at all times compliant with applicable local, state, federal and international laws and regulations ("Laws") provided, however, that Licensee's failure to do so shall not be deemed a breach of the foregoing to the extent caused by the Software itself or SG. Licensee represents and warrants that: (i) Licensee has obtained all necessary rights, releases and permissions to provide all Licensee Data to SG and to grant the rights granted to SG in this Agreement and (ii) Licensee Data and its transfer to and use by SG as authorized by Licensee under this Agreement do not violate any Laws (including without limitation those relating to export control and electronic communications) or rights of any third party, including without limitation any intellectual property rights, rights of privacy, or rights of publicity, and any use, collection and disclosure authorized herein is not inconsistent with the terms of any applicable privacy policies. Other than its security and confidentiality related obligations set forth in this Agreement or in the SG Privacy Policy its negligence or willful misconduct, SG assumes no responsibility or liability for Licensee Data, and Licensee shall be solely responsible for Licensee Data and the consequences of using, disclosing, storing, or transmitting it.

Governing Law, Jurisdiction and Costs

This Agreement is governed by the laws of Delaware, without regard to Delaware's conflict or choice of law provisions. All disputes arising under this Agreement must be heard in State or Federal courts located in the State of Delaware.

Headings

Headings of sections in this Agreement are inserted for convenience only, and are in no way intended to limit or define the scope and/or interpretation of this Agreement.

Amendments

SG may amend this agreement at any time. Such amendments shall be effective as of the date of notice to Licensee. Notice to Licensee shall include requiring Licensee to renew its acceptance and agreement to the terms of this Agreement by selecting the "Accept" option after logging in to the Software Product with a registered user ID and password.

Severability

If any provision of this Agreement shall be held to be invalid or unenforceable, the remainder of this Agreement shall remain in full force and effect. To the extent any express or implied restrictions are not permitted by applicable laws, these express or implied restrictions shall remain in force and effect to the maximum extent permitted by such applicable laws.

IN WITNESS WHEREOF, this Agreement has been executed as of the date first written above.

Sustainable Generation, Inc.	Licensee: Gilton Inc.
BY:(Signature)	BY:(Signature)
(Name)	(Name)
(Date)	(Date)

Attachment A SG Software Product Description

Compost Control System (CCS) Software

- Controls the CCS hardware stack which consists of CPU's, micro controllers, sensors, and relays.
 - o For use with SG Bunker® System with GORE® Covers
 - o For use with positive aeration
 - Internet enabled control system with continuous monitoring and logging
 - o Programmable and manual operation modes selected via user interface
 - Programmable Mode- User sets operating times for blower-on and blow-off
 - Manual Mode- User can turn blower on or off manually via software
 - Backup Automatic based on time or manual (backup any time)
- Compost Server Software
 - o Controls the data acquisition and storage for the CCS
 - Management Framework for data
 - Provides data storage through a local stored database.
 - Custom network protocol for communications between control system and CCS.
 - Remote access for service for patching and firmware updates both server and control systems.
 - Control systems (Bunker)
 - Backup and restore services for all collected data
 - Reporting facility to generate regulatory reports.
 - End user access to data through User Interface
 - Basic reporting ability
 - One report for each day for: Record date, heap ID, bunker location, 5 temperature values, average temperature, blower state Temperatures, phase of heap, Regulatory reporting for PFRP. Reports are non-editable PDF format
 - Basic monitoring of compost process
 - Near real time reporting of: date, time, temperature, location, operating mode
 - Controls network for PCU'S
 - o Provides remote ability for servicing the environment
 - o Remote delivered software updates when they are made generally available by SG such as flashing micro controllers and software patches.
- Process Control Unit (PCU) Software
 - o Acquires 5 point temperature sensor data from Temperature Probe
 - o Acquires Oxygen sensor data from O₂ Probe
 - Sends and receives data to server through CCS network



March 21, 2022

RFP Bidder Name for:

City of San Diego RFP K-22-2049-DB1-3-C Proposal for Organics Processing Facility

SUBJECT: <u>INITIAL BUILD</u>: 127K TPY Processing Capacity with existing 24 SG Mobile® System Boxes from existing Compost Facility being Reused for new RFP Organics Processing Facility

Dear RFP Bidder Name,

Sustainable Generation ("SG") is pleased to provide a quotation as described herein for the proposed Compost Project. The GORE® Cover is time proven technology with experience in more than 300 installations worldwide processing over 3.5M tons annually. The SG Bunker® System is simple to operate, modular design with few moving parts to reduce the cost and complexity of processing material for the business operations.

By utilizing the SG Bunker® System with GORE® Covers, the project will have a sustainable and expandable solution that is capable of processing a wide variety of organic materials. The GORE® Cover technology is recognized for delivering in-vessel performance for:

- Reducing Odors and VOC Emissions
- Achieving Pathogen (PFRP & VAR) Reduction
- Clear Separation of Process Water from Storm Water
- Small Footprint
- Low Energy Requirement
- Modular, Expandable Customized Designs
- Feasible for All-Feed Stocks (SSO, BS and MSW) operating in most Varied Climate Conditions
- Simple to Operate Lowest Operating Cost
- Produces a Consistent Stable Compost in shortest treatment time

Our Quotation is for the SG Bunker® System using GORE® Covers equipment and related services and does not include construction costs. This Quotation assumes that the existing 24 SG Mobile® System boxes currently in operation at the Miramar Greenery will be repurposed for use as 24 of 36 SG Bunker® System boxes for the INITIAL BUILD for RFP New Organics Facility as the blowers and control systems are the same/similar as the new equipment being sold as part of this quotation's Scope of Supply.



The project requirements and scope of work will need to be further refined as part of the design process. Any equipment and services (such as mixing, screening, front end loader, leachate tank, building, biofilter, etc.) not related to the composting system shall be provided by the owner's project team or supplied by others.

SG is ready to support your project with our team experience gained from the 300+ installations worldwide that are successfully using the GORE® Cover technology.

Sincerely,

Brett Hoyt

VP Sales

Sustainable Generation 110 South Poplar Street, Suite 400

Wilmington, DE 19801

Phone: 303.699.1585

Email: <u>brett.hoyt@sustainable-generation.com</u> Website: www.sustainable-generation.com



INITIAL BUILD: 127K TPY Processing Capacity 12 SG Bunker® System with 27 GORE® Covers and Cover Winding Machine Quotation Bidder Name Here ("BUYER")

Date: March 21, 2022

This Quotation assumes that the existing 24 SG Mobile® System boxes currently in operation at the Miramar Greenery will be repurposed for use as 24 of 36 SG Bunker® System boxes for the INITIAL BUILD for RFP New Organics Facility.

Prepared by Brett Hoyt- email: brett.hoyt@sustainable-generation.com phone: 303-699-1585 Sustainable Generation, LLC in the following referred to as "SG" W.L. Gore & Associates in the following referred to as "Gore"

Prepared for:

RFP Bidder Name for: City of San Diego RFP K-22-2049-DB1-3-C Proposal for Organics Processing Facility

SG Bunker® System with GORE® Covers

Shown below: 12 SG Bunker® System with 9 Gore® Covers, Upper Marlboro, MD 2018











1. General:

1.1. Input Materials and Volumes¹:

Input Materials	Source Separated Organics, Yard Waste, Green Waste
-----------------	--

8-Week Process	Quantity
Input tons/year (includes Bulking Agent)	127,000
Specific Weight [lbs./yard ³]:	925

¹ Data provided to SG by CUSTOMER for the purpose of an agreed upon system sizing.

1.2. Number of windrows

Item	Description	Quantity
Phase 1 –High Rate Composting	Covered	18
Phase 2 – Maturation	Covered	9
Phase 3 – Finishing	Uncovered	9
Total		36

1.3. Bunker Design Throughput and Windrow Dimensions

Item	Quantity
Throughput Volume: Cubic Yards per Year	304,743
Throughput tons per year @ 925 lbs./y ³	140,944
Throughput tons per year @ 800 lbs./y ³	121,897
Bunker Length ft.	164
Bunker Width OD ft.	27
Sidewall Height ft.	4
Pushwall Height ft.	4-8
Heap Height ft.	12
Distance behind pushwall for Bunker box ft.	10
Distance between Bunkers ft.	4-7
Driving Space Alley Width ft.	40



1.4. Foot Print: Recommended Minimum Surface Area Including Driving Space²

Item	Quantity
Compost Pad Width ft.	175
Compost Pad Length ft.	1237
Compost Pad Area ft. ²	216,504
Driving Space ft. ²	49,487
Total Compost Pad ft. ²	265,991

²Layout, configuration and driving space shall be confirmed by the CUSTOMER'S professional design engineer and according to local codes and regulations.

1.5. Cover Handling Method

Item Quantity	Quantity	Description
PWM Winder Machine- PWM- 10E	1	Electric powered cover winder for use with GORE® Cover

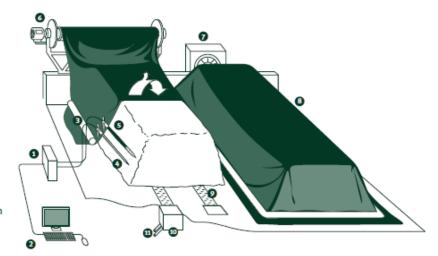


2. SG Bunker® System using GORE® Covers Scope of Supply includes the following:

Diagram below is for illustrative purposes only.



- 1 Control system
- 2 PC
- 3 Rim weight
- 4 Temperature sensor
- 5 Oxygen sensor
- 6 Cover handling device
- 7 Aeration fan
- 8 GORE® Cover
- 9 Aeration and leachate system
- 10 Water trap
- 11 Leachate pipe



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- 2.1. Installation Guide, which includes Specifications and Drawings for the Design Team: Layout and drawings provided by SG are for the purpose of guiding the design configuration and are <u>not</u> to be used for construction. BUYER must consult with a professional engineer and design according to local code and regulations
 - Basic Site Layout for the Phase I, Phase II and Phase III areas of the composting pad
 - Drawings and Specifications for the cover winding system provided.
 - Drawings and Specifications for the In-Ground Aeration System
 - Drawings and Specifications for Cover Fastening System
 - Basic wiring diagrams and power/electrical system drawing to be finalized according to local standards and regulations by a qualified and/or locally certified electrician

2.2. GORE® Cover

Item	Quantity	Description
GORE® Covers	27	Phase 1 & 2 only
Cover Tie Down Straps	Included	

Specified dimensions to fit the heap dimensions as described in Section 1.3. Design and fabrication of each GORE® Cover for use with the winding system provided.



2.3. SG Bunker® System Aeration System with Leachate Collection

Above Ground Components:

ITEM	Quantity
SG Bunker Box Unit- Plug & Play Design	12
Aeration Blower	12
480v, 3-phase power connection ready	12
Cat 6 Network connection ready	12
T-tubes, pipe, couplers	12
Flexible Pipe, couplers, and Hose Clamps	12 sets

In Ground Components:

Item	Quantity
In-Ground Trench System	36 sets
Water Traps	36
PVC Pipe and Fittings Set	36 sets
Trench System Cleanouts	36 Sets

Note: Contractors hired by BUYER must meet the system specifications for the SG Bunker® System and will carry out installation of aeration system, including all relevant parts such as trenches, individual blowers and water traps, pipe, and fittings.

2.4. Compost Control System (CCS)

Item	Quantity
Process Control Unit (PCU)	12
Oxygen Probes (Phase 1 & 2)	12
Temperature Probes	12
Probe Cabling Sets	12
CCS Server	1
Network Switch	2
CCS PCU Software Licenses	12
CCS Server Licenses	1
Computer	Laptop or Smart Device
Process Control Software	Installed
Service Platform Software	Installed
CCS Test Bench	1

Compost Control System is a plug and play solution and will include the following features:

• A Process Control Unit (PCU) for each windrow



- Main power hook-up
- Network Connection hookup
- Emergency stop
- Green control light for power on
- Red control light for blower fail
- Low Volt transformer
- Programmable and Manual Modes Control System
- 5-point temperature probe
- First year Software Licenses included

Note: Requires Public Dedicated Static IP - supplied by Buyer

2.5. Cover Fastening System

Item	Quantity
Rounded Sidewall Cap	36 bunker sets
Stainless Steele Carabiners (Phase 1 & 2)	27 bunker sets
Bungee Cords (Phase 1 & 2)	27 bunker sets
Bunker Toe end fastening system (Phase 1 & 2)	27 bunker sets

2.6. Operations Manuals

- Installation Manual for SG Bunker® System
- Operation Manual on GORE® Cover including safe handling guidelines
- Standard operation manual on the Cover Winder machine.
- All documents will be provided in English on paper

2.7. Spare Parts:

Item	Quantity
Probe Cable	8
Oxygen Probe	4
Temperature Probe	4
Repair Kit for GORE® Cover including laminate	2



2.8. Cover Winding Machine

Type PWM 10E- Electric Powered Cover Winding Machine for use with GORE® Cover

- For use with GORE® Cover Bunker Design
- Electric Powered, Self-propelled cover winding machine
- Remote controller
- Able to deploy or remove GORE® Cover in under 10 minutes



3. SG SmartStartTM Service Package Scope of Supply includes:

3.1. Technical Meetings, Site Supervision, Installation Guidance, Start-Up and Commissioning

Meeting Description	
Pre-Design	Included
Pre-Construction	Included
Pre-Installation	Included
Operator Training (1, 2, and 3)	Included
Start Up and Commissioning	Included
Service Platform: Technical Support Training	Included

3.2. Training

Training for Operators	Reference Plant	Duration (Days)	Participants
Training Unit 1 ¹	US Reference Site	3	2-3 people
Training Unit 2 ²	Customer Site	3	na
Training Unit 3 ³	Customer Site	2	na

¹ Training 1 will be held at US reference site during construction phase. BUYER responsible for their travel and lodging expenses.

² Training ² will be held during final installation of equipment and during start up/ commissioning.

³ Training 3 will be held between two (2) months after start up and no later than six (6) months after start up.



3.3. Technical Support

Remote Support Services	Internet and Service Platform Support- 24 hr. Response Time			
	No Charge			
Annual Support Contract	Annual Service Contract			
	• Internets, Phone, and Service Platform Support- 4 hr. Response			
	Time.			
	Remote Diagnostics			
	Annual On-site Service Check and Report			
	Remote Data Backup			
	First 12 months beginning at Commissioning/Startup- No Charge			
	• \$18,000.00 per year after first 12 months			

3.4. Consultancy

Consultancy	On-Site Support	
	No Charge for first 12 months	
	\$1200.00 USD per day per person plus travel /expenses	

BUYER will allow SG or SG Partner to access the plant after reasonable prior notice.

3.5. Software Licenses

CCS Software Licenses	Sustainable Generation Software as a Service Subscription Appendix B			
	Non-exclusive License			
12 PCU Licenses	Non-transferable License			
1 Server Licenses	Includes Software Updates			
	Includes Software New Features/Enhancements			
	First 12 months beginning at Startup/Commissioning- Included/No Charge			
	Annual User Fee:			
	• \$1000 per PCU			
	• \$2000 per Server			

3.6. Service Platform

Web based service platform unique to the BUYER with the following capabilities:

- Inventory all components and tracks the warranty
- Online ordering for technical support, component repairs and spare parts
- 24/7 technical support with 24-hour response time
- Tracking tool for technical support



4. Warranties and Guarantees

4.1. Sustainable Generation (SG) warrants that the system as specified in this quotation is designed to process a minimum amount of feedstock as specified in Section 1.1 for a period of 4 years, provided that SG Bunker® System with GORE® Covers was operated in accordance with all Operation Manuals, Trainings and all other relevant instructions or information provided by SG. Warranty will start from date of commissioning or at the latest 6 months after shipment. In the event of claims to this warranty CUSTOMER shall provide access to all available process data.

4.2. GORE® Cover Manufacturer's Warranty:

Each GORE® Cover will be delivered free from defects in materials and workmanship. This Warranty shall be valid for a period of 4 years from date of arrival on CUSTOMER's project site for each new GORE® Cover. For any claim under this Warranty arising within the first 24 months after the defect GORE® Cover of arrival on CUSTOMER's project site, Gore shall repair or replace the GORE® Cover, at Gore's option and expense. For any claim under this Warranty arising within months 25 through 48 of this Warranty, at CUSTOMER's request Gore shall sell to CUSTOMER a new GORE® Cover at the then current price with an allowance deducted from the price for the warranty period which has already passed according to the following formula: Price to be paid by CUSTOMER = Full Price multiplied by (months of warranty coverage passed divided by 48).

This Warranty does not apply for defects resulting of natural wear and tear, or if the GORE® Cover is punctured or torn by a sharp object, or otherwise damaged due to exterior influences, such as rodents, birds, mechanical impact such as inadmissible strong tie down, etc., or if the GORE® Cover was not operated in accordance relevant instructions or information provided by Gore. In the event of claims to this Warranty, CUSTOMER shall provide access to all available data related to the operation of the defect GORE® Cover and, if necessary, access to the site where the defect GORE® Cover has been operated.

The CUSTOMER has to inspect the GORE® Cover immediately following delivery for the absence of defects and for completeness and to notify any defects thus discovered to SG in writing within 14 calendar days. If the CUSTOMER fails to perform the inspection or to notify the defects in good time, the goods supplied are deemed to be approved, unless the defect could not be identified at the time of the inspection.

CUSTOMER remains entirely responsible for following the guidelines about handling of the GORE® Cover with the winding device and to provide proper training to its operators.

- 4.3. Sustainable Generation Software as a Service, is provided subject to the exclusive warranty set forth in the SaaS Subscription Agreement, and attached SLA, Appendix B.
- 4.4. For other equipment supply of the SG Bunker® System from Sustainable Generation (SG) the warranty period shall be valid for 12 months from the date of commissioning of the facility or six months after shipment, whichever date is earliest. This equipment supply is the aeration blowers, trenches systems with water traps, and the cover handling device. The Compost Control System components (CCS), and communications network are subjects to a warranty period of 12 months. Sensors, sensor cables and connectors are subject to a warranty period of 6 months. The Warranty is limited to defects which cannot be attributed to natural wear or improper use or treatment. For all other parts, we only act as a reseller of such as the Laptop or PC computer and printer, and hereby assign the manufacturer's warranties and representations, to the extent assignable.



- 4.5. Any parts and equipment which are subject to claim shall be returned to SG free of freight and customs and excise duty, in so far as no other express agreement has been reached to the contrary. Claims must be sent in writing and by registered letter. If such claims are recognized by SG, we shall repair the relevant items as quickly as possible or replace them at our discretion. Freight and packaging costs shall be SG responsibility. Parts which are replaced shall remain SG property.
- 4.6. Any liability as set forth in this section is in each case limited to the value of the specific component product in connection with which the damaging event has occurred.
- 4.7. As a precondition to any of the warranties offered under this Agreement, (i) BUYER is responsible for operating the SG Bunker® System with GORE® Covers in accordance with all Operation Manuals, Training, and all other relevant instructions or information provided by SG; if parties other than SG have modified or changed the SG products or Service deliverable; the claim arises out of the use of the SG Products or service with products or services not provided or approved by SG
- 4.8. BUYER is solely responsible to operate SG Bunker® System and GORE® Cover in compliance with applicable law.
- 4.9. All limited warranties on the SG Products and Services are granted only to Buyer and are non-transferable. THESE WARRANTIES REPRESENT BUYER EXCLSUIVE REMEDY AND SG'S EXCLSUIVE LIABILITY FOR ANY WARRANTY DEFECTS. SG MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE: EXCEPT AS STATE ABOVE, SG SHALL HAVE NO OBLIGATION OR LIABILITIES TO BUYER OR ANY OTHER PERSON FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL OR INCIDENTIAL DAMAGES, ARISING OUT OF OR RELATED TO THIS AGREEMENT, THE USE OR PERFORMANCE OF GOODS AND SERVICES PROVIDED UNDER THIS AGREEMENT, OR IN ANY OTHER MANNER.



5. **BUYER Responsibilities:**

5.1. BUYER is responsible for construction and installation. BUYER agrees to consult with a professional engineer and design according to local code and regulations.

5.2. Installation Supply:

- Provide a staging area for shipping containers and unloading the equipment into a secure and dry area (housing for the control system, space for the other parts).
- Provide workspace and lay-down area for the partner companies including communication (telephone, fax and internet).
- Provide access to standard hand tools (wrenches, hammers, screwdrivers, drill etc.) and temporary power
- Provide front-end loader, forklift, crane and trained equipment operators.
- Note: The Container holding the cover winder machine has to be unloaded to the ground without being opened or any parts removed. Container shall only be opened by SG or SG partner.

5.3. Site Construction, Installations, and Parts provided by BUYER:

- Site preparation as per permit requirements adapted to local specifications.
- All concrete, mechanical, electrical work for construction and installation of compost pad, Bunkers, push walls, leachate collection from water traps, and electrical power.
- Installation of aeration system, including all relevant parts such as trenches, individual blowers and water traps, pipe, and fittings.
- Facility shall have adequate space for reception, storage, pre-treatment, mixing, screening and storage of the finished compost.
- Impervious Surface for Compost Pad. Concrete, asphalt, or other SG approved surface.

5.4. Electrical Installations provided by BUYER:

• All electrical installations including electrical and network conduits, electrical wiring, Cat 6 and/or Fiber Optic Cables, disconnects, and final power and network connections to SG system box, to be provided and installed by BUYER by a qualified and/or locally certified electrician.

5.5. Process Supply by BUYER:

- Feedstock as specified for the start-up and the process
- Provide machinery such as front-end loader, grinder, screen, turner and water supply.
- A site supervisor and a main contact person to be provided by BUYER, being knowledgeable about and held accountable for the operations being in compliance with all applicable safety and environmental regulations.

5.6. Network Connection provided by BUYER

Public Dedicated Static IP address to server, network, and all SG system boxes.



6. Terms

6.1. Confidentiality

"Confidential Information" means any information one party discloses to the other under this Agreement which is identified as confidential or proprietary. By way of example but not limitation, the content of this quotation and all other information in conjunction with SG Bunker System with GORE® Covers and its system components, which has been disclosed or will be disclosed by SG, is confidential. BUYER may not communicate Confidential Information to third parties. BUYER confirms to disclose Confidential Information to no more than those employees and contractors to whom disclosure is reasonably necessary for the operation of the Facility or for the evaluation of this quotation. Confidential Information does not include information which: is rightfully obtained by the recipient without breaching any confidentiality obligations; is or becomes known to the public through no act or omission of the recipient; the recipient develops independently without using Confidential Information; or is disclosed in response to a valid court or governmental order if the recipient notifies the disclosing party and assists in any objections. The recipient may use Confidential Information only for the purposes for which it was provided under this Agreement, and shall treat it with the same degree of care as it does its own similar information, but with no less than reasonable care. The signing of this contract does not affect any existing confidentiality agreement.

6.2. Payment Terms

Requirement	Rate	Action/ Deliverable	Invoiced
Payment #1	5%	Design/ Installation Guide	Upon Agreement Signing
Payment #2	30%	Notice to Proceed/ Production/ Ship	Production of Components
Payment #3	60%	Shipment to Site/Installation	Arrival on Site
Payment #4	5%	Start Up/Commissioning	Commissioning

All payments received past the payment due date will be charged a late payment fee of 1.5% per month in addition to any collection costs or expenses incurred, including court costs and reasonable attorney fees.

6.3. Time schedule:

- SG and BUYER will set a specific time schedule for: when, what, in which way Action Items/ Deliverables will be received after this contract is signed.
- Delivery date to be determined. BUYER will issue to SG a Notice to Proceed/ Production; thereafter BUYER should allow 12-20 week lead-time for the shipment to arrive on-site after receiving Payment #2. Lead time on CWM cover winder machines may be longer, please check with SG for current delivery lead times.

6.4. General terms and conditions

- The Terms and Conditions of Sustainable Generation (Appendix A) shall apply. In the event of any inconsistency between the terms and conditions of this Quotation and the Terms and Conditions of SG, the Terms and Conditions of the Quotation will prevail.
- All other terms are expressly rejected.



6.5. Pricing

This Quotation assumes that the existing 24 SG Mobile® System boxes currently in operation at the Miramar Greenery will be repurposed for use as 24 of 36 SG Bunker® System boxes for the INITIAL BUILD for the RFP New Organics Facility.

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Item	Configuration	Pricing (\$USD)
SG Bunker® System	12 SG Bunker® Systems with 27 GORE® Covers Bunker Design: 164 ft. Length x 27 ft. Width x 12 ft. Height 12 Compost Control Systems	Included
	36 Bunker Aeration System with In-ground trenching 27 Bunker Cover Fastening System	
SG SmartStart™ Service Package	Installation Guide, Pre-Design/Construction/Installation Meetings, Commissioning & Start-up Services, Training	Included
	SG Bunker® System with SmartStart™ Services Total	\$5,969,287.00
PWM 10E Cover Winder	Electric Powered Cover Winder Machine with Charging Station	\$360,000.00
	BASE PRICE INITIAL BUILD	\$6,329,287.00

- > Duty and Shipping included
- ➤ All other applicable Taxes not included and are payable by BUYER
- > Tariffs not included, if any, and are payable by BUYER
- ➤ Prices are valid for 120 days from April 12, 2022, and thereafter is subject to PPI adjustment with price adjustment based upon the time of Arrival of Order (ARO). The ARO will be based upon price change as published by the US Bureau of Labor Statistics Producer Price Index (PPI), substitutions or adjustments will be based upon then current pricing for any such new or additional Products or Services.

6.6 Cancellation

- BUYER may reschedule, terminate or cancel the Order by written notice to SG prior to SG Shipment. Orders cancelled prior to the issuance of a Notice to Proceed for production and shipment and will be subject to a cancellation charge based on the percentage of work completed. The cancellation charge may not exceed an amount of \$100,000.00 USD (One Hundred Thousand United States Dollars) in total. Rescheduling shall be limited to once per order and remains subject to mutual agreement of the Parties. In the event the rescheduling creates an additional expense the parties may treat the rescheduling request as a change order where that change remains subject to compensation for those incremental expenses actually incurred as a condition for rescheduling.
- Orders terminated or cancelled by BUYER after the issuance of a Notice to Proceed for production and shipment will be subject to the Sustainable Generation LLC Terms and Conditions attached to this quote.

6.7 Applicable Law; Jurisdiction

• This Quotation is governed by the substantive law of the State of Delaware, without regard to its principles regarding the conflict of laws. The United Nations Convention for the international sale of goods shall not apply. The parties agree to the jurisdiction of the United States District Court for the District of Delaware and the courts of the State of Delaware for the resolution of any litigation relating to this Agreement.



Contract partner and seller is Sustainable Generation, LLC of Wilmington, Delaware.

Validity of this Quotation is 60 Days from Date of Offer.

Quotation acceptance subject to SG Confirmation

SG reserves the right to correct any errors and omissions in this Quotation.

Please return approved quotation by:

- Scan/email to: brett.hoyt@sustainable-generation.com
- Mail two (2) originals to:

Sustainable Generation, LLC 110 South Poplar Street, Suite 400 Wilmington, DE 19801

Offered: March 21, 2022 Sustainable Generation, Inc. **Quotation Accepted:**

	BUYER Name:	
	Signature:	
Brett Hoyt		
VP Sales – North America	Print Name:	
Sustainable Generation LLC		
110 South Poplar St., Suite 400	Title:	
Wilmington, DE 19801		
	Company:	
	Date:	



APPENDIX A: Sustainable Generation's Terms and Conditions

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TERMS AND CONDITIONS of Sustainable Generation, LLC

- 1. <u>AMOUNT AND TYPE OF GOODS:</u> Seller agrees to sell and Buyer agrees to buy the quantity and type of products and/or services (the "Products") which are described in this Agreement.
- 2. <u>ENTIRE AGREEMENT:</u> This Agreement together with any SOW or any software licenses or SaaS Subscription Agreements incorporated by reference represents the entire integrated agreement between Buyer and Seller and supersedes all prior negotiations, representations or agreements, either written or oral. These terms may be amended only by a written instrument signed by both Buyer and Seller.
- 3. <u>INSPECTION, CLAIMS FOR DEFECTS OR LATE DELIVERY:</u> Buyer shall have the right to inspect the Products after delivery. Buyer shall give Seller prompt written notice of any damaged, defective or non-conforming Products and shall make all rejected Products available to Seller for inspection. Services are deemed accepted upon delivery; unless Buyer rejects those services as defective in writing within 2 bsuiness days. Failure of Buyer to give written notice of Product rejection to Seller within sixty (60) days from the date of delivery constitutes Buyer's irrevocable acceptance of the Products. Buyer is entitled to inspect the Products at any stage of manufacturing, but Seller reserves the right to restrict access to certain machinery, processes, and information that Seller deems proprietary. Seller shall have no obligation to replace or provide credit for Products claimed to be defective unless Seller receives representative samples of the Products and an opportunity to examine the Products at a place convenient to the Seller. In the event that Buyer elects to accept a part of a delivery, it is agreed that the portion of Products rejected shall be returned to Seller within thirty (30) days following Seller's authorization. For rejected service, Seller will promptly provide Buyer with a like amount of replacement services their own cost and expense.
- 4. **DELIVERIES:** The delivery of the Products shall be made, in a single or in multiple lots, as specified in the Agreement, or within a reasonable time thereafter. The delivery schedule shall be considered extended by a period of time equal to the time lost due to any delay for causes beyond Seller's reasonable control. Seller's failure to make delivery of any item or to meet any delivery date shall not affect future deliveries or excuse Buyer from paying any installment when due. Buyer's failure to pay any installment when due shall excuse Seller from making further deliveries. Buyer shall confirm the suitability of Seller's standard manufacturing lead times prior to placing orders. Seller reserves the right to charge expediting fees for deliveries requested in advance of Seller's standard lead-time. With respect to each delivery obligation contained in this Agreement: (i) Tender of a shipment to any licensed carrier shall constitute delivery to Buyer; (ii) Seller shall use its best efforts to deliver in accord with the schedule specified in this Agreement. Any delivery not in dispute shall be paid for in accordance with that order's terms by Buyer, regardless of any dispute as to other delivered or undelivered goods. Seller is not obligated to package goods for outside storage. Deliveries of up to ten percent (10%) above or below quantities specified in the order shall be accepted by Buyer and the invoice price will be adjusted accordingly. Unless otherwise specified by Seller, delivery terms are to be Ex Works (Incoterms 2000) Seller's manufacturing site.
- 5. <u>TITLE; RISK OF LOSS:</u> Unless otherwise agreed by the parties, risk of loss or damage to the Products shall pass to the Buyer upon delivery. Buyer shall receive title to the Products upon Seller's receipt of payment in full for the Products delivered. Buyer remains separately responsible for expense incurred in the transportation, handling and insurance in transit. Buyer will reimburse Seller for these expenses and where Buyer fails to designate a carraier, Buyer will make that designation and the transportation company will not be considered an agent of Seller.
- PRICING OF BULK PURCHASE ORDERS: Unless otherwise agreed by the parties, installment deliveries extending over six months from the original order date will be invoiced at Seller's then-prevailing unit price. 7. WARRANTY: Seller warrants that at the time of delivery, the Products are free from defects in materials and workmanship and conform to Seller's specifications, and, if applicable, acceptance criteria to which Seller has agreed in writing. Buyer retains sole responsibility for determining whether the Products are fit for the intended use, and for suitability of qualification and acceptance criteria. Claims for defects must be received by Seller within one (1) year from delivery of the Product on which the claim is based. Buyer's remedy will be limited to repair, replacement or refund for those Products which Seller verifies are defective. This warranty is conditioned upon (a) proper storage, installation, use, operation, and maintenance of the Products, (b) Buyer keeping accurate and complete records of operation and maintenance during the warranty period and providing Seller access to those records, and (c) modification or repair of the Projects only as authorized by Seller. Failure to meet any such conditions renders the warranty null and void. Seller is not responsible for normal wear and tear. As a precondition to any of the warranties offered under this Agreement, (i) Buyer is responsible for operating the Products in accordance with all Operation Manuals, Training, and all other relevant instructions or information provided by Seller; and (ii) operations of the Products in compliance with applicable law including any safety, security or data privacy regulations. This warranty excludes claims based upon Products that have been modified or changed; as well as any claim that arise out of the use of the Products or service with products or services not provided or approved by SG. All limited warranties on the SG Products and services are granted only to Buyer and are non-transferable. THESE WARRANTIES REPRESENT BUYER'S EXCLSUIVE REMEDY AND SELLER'S EXCLSUIVE LIABILITY FOR ANY WARRANTY DEFECTS. SELLER MAKES NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING WITHOUT LIMITATION, ANY WARRANTY OF MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE: EXCEPT AS STATE ABOVE, SELLER SHALL HAVE NO OBLIGATION OR LIABILITIES TO BUYER OR ANY OTHER PERSON FOR ANY SPECIAL, INDIRECT, CONSEQUENTIAL OR INCIDENTIAL DAMAGES, ARISING OUT OF OR RELATED TO THIS AGREEMENT, THE USE OR PERFORMANCE OF GOODS AND SERVICES PROVIDED UNDER THIS AGREEMENT, OR IN ANY OTHER MANNER.
- 8. INDEMNITY AGAINST INFRINGEMENT: Seller will, at its expense, defend Buyer against any claim by a third party that the products delivered hereunder infringe any intellectual property right and will pay all costs, damages, and attorney's fees that a court finally awards as a result of such claim. To qualify for such defense and payment, Buyer must give Seller prompt written notice of such claim and allow Seller to control, and fully cooperate with Seller in, the defense and all related settlement negotiations. Seller shall have no obligation with respect to any claim of direct or contributory infringement based upon modification of the products furnished by Seller or their combination, operation, or use. Seller shall have no obligation with respect to any claim of direct or contributory infringement based upon use of the Products or services in a manner for which the Products were not designed Buyer shall hold Seller harmless against any such claim arising out of compliance with specifications furnished by Buyer. This Article 8 states Seller's entire obligation to Buyer regarding claims of infringement, whether direct or contributory, involving intellectual property rights of third parties. Neither party shall have the obligations set forth in this Article 8 if an infringement claim is brought against a party protected from such a claim pursuant to government regulations.
- 9. <u>CHANGES:</u> Either party may at any time propose changes to the specification or scope of Products. All changes to the specification or delivery schedule will require a written agreement between the parties which will, at minimum, include the changes in the scope, delivery schedule and resulting change in price. Seller reserves the right to improve and make changes to Products sold hereunder without notice or approval of Buyer, except for changes that materially modify the form, fit or function of the Product contained the specifications.



- 10. CANCELLATION OR RESCHEDULING: Except as otherwise provided in the Agreement, orders cancelled by Buyer other than for default of Seller will be subject to a cancellation charge based on the percentage of work completed as a percentage of the contract price or such other reasonable charge as Seller may apply. Buyer will be entitled to receive any Products for which Seller has received payment in full. Seller, in its sole discretion may waive its claim for the value of work in progress. Buyer's cancellation request(s) must be in writing. Rescheduling shall be limited to once per order and remains subject to mutual agreement of the Parties. In the event the rescheduling creates an additional expense the parties may treat the rescheduling request as a change order where that change remains subject to compensation for those incremental expenses actually incurred as a condition for rescheduling.
- 11. <u>TECHNICAL DATA AND PROPRIETARY INFORMATION:</u> Seller has no obligation to provide technical data other than its standard finished Product inspection data. Seller has no obligation to perform, and this is not an Agreement for, research, developmental or experimental work. Seller has no obligation to disclose, convey rights or allow access to technical, financial, or other information protected by it as proprietary or to indemnify Buyer for such refusal to disclose.
- 12. PAYMENT: Buyer shall pay Seller for the Products by paying all invoiced amounts in U.S. Dollars, without set-off, reduction or adjustment within thirty (30) days from the invoice date. For each calendar month, or fraction thereof, that payment is late, Buyer shall pay interest computed at the rate of 1.5% per month, or the maximum rate permitted by law, on the overdue balance. If it is necessary for Seller to enforce any provision of this Agreement, Buyer agrees to reimburse Seller for all legal and other reasonable costs related thereto, including attorneys' fees, court costs, administrative time, and other collection costs, whether or not Seller initiates court proceedings. Buyer shall also pay all costs, attorney's fees, filing fees, and/or administrative fees in the event Buyer appeals any decision or order from a judicial proceeding against Seller. Seller reserves the right to alter Buyer's credit limit, if any, at any time, or to require payment in full for any order or prior order before delivery. If Buyer fails to pay any invoices when due, Seller may terminate this Agreement and cancel or delay all future deliveries without otherwise affecting Seller's rights hereunder. As partial payment of sums due hereunder, Seller may accept any check or other tender of payment without entering into an accord and satisfaction and without prejudice to the Seller's right to the remainder due or to become due hereunder notwithstanding any terms or conditions endorsed on or stated in any communication related to such check or other tender. Seller may apply any amounts tendered by Buyer as Seller determines, in its sole discretion, whether under this Agreement or otherwise. All prices quoted are exclusive of taxes.
- 13. FORCE MAJEURE: Seller shall not be liable for any delay in delivery or for non-delivery, in whole or in part caused by the occurrence of any contingency beyond the control either of Seller or suppliers to Seller, including but not limited to war (declared or not), sabotage, insurrection, rebellion, riot or other act of civil disobedience, act of public enemy, failure or delay in transportation, act of any government or any agency or subdivision thereof, judicial action, labor dispute, fire, accident, explosion, epidemic, quarantine restrictions, storm, flood, earthquake, shortage of labor, fuel, raw material or machinery or technical failure, where Seller has exercised ordinary care in the prevention thereof. If any contingency occurs, Seller may allocate production and deliveries among Seller's BUYERs.
- 14. **REPRESENTATIONS AND CERTIFICATIONS:** Seller makes no representations or certifications in connection with this Agreement except those which are expressly contained within these Terms of Sale and, if any, those provided separately which are signed and dated by the Seller and made exclusively applicable to this Agreement.
- CONFIDENTIALITY: "Confidential Information" means any information one party discloses to the other under this Agreement which is identified as confidential or proprietary. By way of example but not limitation, the content of this quotation and all other information in conjunction with Products including the SG Bunker System with GORE® Covers and its system components, which has been disclosed or will be disclosed by SG, is confidential. BUYER may not communicate Confidential Information to third parties. BUYER confirms to disclose Confidential Information to no more than those employees and contractors to whom disclosure is reasonably necessary for the operation of the Facility or for the evaluation of this quotation. Confidential Information does not include information which: is rightfully obtained by the recipient without breaching any confidentiality obligations; is or becomes known to the public through no act or omission of the recipient; the recipient develops independently without using Confidential Information; or is disclosed in response to a valid court or governmental order if the recipient notifies the disclosing party and assists in any objections. The recipient may use Confidential Information only for the purposes for which it was provided under this Agreement, and shall treat it with the same degree of care as it does its own similar information, but with no less than reasonable care. The signing of this contract does not affect any existing confidentiality agreement.
- . The terms of this Paragraph shall survive termination of the Agreement for any reason.
- 16. **LIMITATION OF LIABILITY:** The total liability of Seller for call claims of any kind arising from or related to the formation, performance or breach of this Agreement, or any Products or Services, shall not exceed te lesser of (i) \$100,000, or (ii) if Buyer places multiple order(s), the price of each particular order for all claims arising from or related to that order.
- 17. <u>INDEMNIFY AND HOLD HARMLESS:</u> The BUYER agrees to Indemnify and Hold Harmless Seller, its agents, servants, authorized partners, and employees, from any and all loss, damage, liability or expense, including attorneys' fees, including but not limited to all claims for damages on account of or by reason of bodily injury, including death, which may be sustained or claimed to be sustained by any person, and all damages to property, caused by or in connection with BUYER's use, possession, ownership, or future sale/disposal of the equipment.
- 18. SAVINGS CLAUSE: If any provision of this Agreement is found to be void or unenforceable, the remainder of the Agreement shall not be affected. The parties will endeavor to replace any such void or unenforceable provision with a new provision that achieves substantially the same practical and economic effect and is valid and enforceable.
- 19. <u>COUNTERPARTS:</u> This Agreement may be executed in multiple counterparts that together shall constitute one Agreement.
- 20. APPLICABLE LAW; JURISDICTION: This Agreement is governed by the substantive law of the State of Delaware, without regard to its principles regarding the conflict of laws. The United Nations Convention for the international sale of goods shall not apply. The parties agree that the US District Court for the District of Delaware or the Courts of the State of Delaware have exclusive jurisdiction over the resolution of disputes arising under this Agreement. The parties hereby expressly agree to personal jurisdiction within the State of Delaware.

APPENDIX A: SG Software as a Service Subscription Agreement

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SG Software as a Service Subscription Agreement

SG Software Product (the "Software Product") provides the functionality as specified in the printed SG software product documentation, Attachment A. The Software Product including any included data and accompanying documentation are the proprietary property of Sustainable Generation, Inc. ("SG").

DEFINITIONS: These terms when referenced in this Agreement have the following meaning:

- a) "SG Cloud Services Environment" refers to the combination of hardware, software and Software Product owned, licensed, subscribed to, or managed by SG to which SG grants the Licensee and Users access to portion of the SG Cloud Service Environment as part of the SG Cloud Services that are described in the SG Sales Ouote.
- b) "SG Software Service Description" is the formal SG description of the commercial service offering defining the scope and coverage of the service, referenced in the SG Sales Quote and attached to this Agreement as Attachment A.
- c) "SG Sales Quote" is a formal SG offer for the sale of specified products and services pursuant to this Agreement, which shall be effective upon Licensee's execution thereof.
- d) "Licensee Data" means "means any data, content, code, video, images, questionnaires or other materials of any type that Licensee uploads, submits or otherwise transmits to or through the Software; (ii) reports and documents generated by SG or the Software Product from such data, content, code, video, images questionnaires or other materials submitted by or on behalf of Licensee.
- e) "Users" means those employees, contractors, and end users, as applicable, authorized by the Licensee to use the Software in accordance with this Agreement. For Software that are specifically designed to allow the Licensee's customers, suppliers or other third parties to access the Software to interact with the Licensee, such third parties will be considered "Users" subject to the terms of this Agreement.

Acceptance

YOU ("LICENSEE") BY YOUR USE OF HE SOFTWARE ACCEPTS AND AGREES TO BE BOUND BY THE TERMS OF THIS AGREEMENT, LICENSEE FURTHER ACKNOWLEDGESTHIS FACT BY SELECTING THE "ACCEPT" OPTION AFTER LOGGING IN TO THE SOFTWARE PRODUCT WITH A REGISTERED USER ID. LICENSEE MUST AGREE TO ALL OF THE TERMS OF THIS AGREEMENT BEFORE LICENSEE WILL BE PERMITTED LAWFUL ACCESS TO THE SOFTWARE PRODUCT. IF LICENSEE DOES NOT AGREE TO ALL OF THE TERMS OF THIS AGREEMENT, LICENSEE MUST SELECT "DECLINE"; AND LICENSEE MUST NOT ACCESS OR OTHERWISE USE THE SOFTWARE PRODUCT.

SG reserves the right to require Licensee to periodically renew its acceptance and agreement to the terms of this Agreement by requiring Licensee to select the "Accept" option after logging in to the Software Product with a registered user ID and password, including, without limitation, in the event SG provides an enhancement, improvement or modification to the Software Product or if SG amends or modifies the terms of this Agreement. However regardless of any such renewal, Licensee acknowledges that the terms of this license continue to govern Licensee's use of the Software Product, as well as any modifications or additions provided by SG or through Licensee's access to the SG Cloud Services Environment.

License Grant

Subject to Licensee's compliance with the terms and conditions of this Agreement, SG grants to Licensee a terminable, non-exclusive, non-transferable license to use Software Product solely in Licensee's internal business operations. Licensee's rights to use the Software Product shall be limited to those expressly granted in this Software as a Service Subscription License Agreement ("Agreement"). All rights not expressly granted to Licensee are retained by SG. The Software Product is protected by copyright laws, trade secret, as well as laws and any applicable regulations an/or treaties related to other forms of intellectual property. SG owns all intellectual property rights in the Software Product and derivatives thereof.

The license granted by this Agreement shall apply only for the number of user id's and capacity limitations as set forth in the associated SG Sales Order under this Agreement, and shall only be valid for such time as the Subscription Agreement remains in full force and effect. Licensee shall take appropriate steps, including limiting access to user IDs and passwords, to limit access to the Software Product to those Users from its employees who are authorized to use the Software Product and to agree to the terms of this Agreement on behalf of Licensee.

Restrictions on Transfer, Use, Alteration and Copying

Licensee may not, without SG's prior written consent, conduct, cause or permit the: (i) use, copying, modification, rental, lease, sublease, sublicense, or transfer of the Software Product except as expressly provided in this Agreement; (ii) creation of any derivative works based on the Software Product or its accompanying documentation including but not limited to translations, (iii) alteration of any files or libraries in any portion of the Software Product, or reproduction of any tables or reports relating; (iv) reverse engineering, disassembly, or decompiling of the Software Product; (v) use of the Software Product in connection with service bureau, facility management, timeshare, service provider or like activity whereby Licensee operates or uses the Software Product for the benefit of a third party; or (vi) use of the Software Product by any party other than Licensee its subcontractors and agents acting on Licensee's behalf and subject to the terms of this license. Any violation of this section shall result in immediate termination of this Agreement, which termination shall not be exclusive of other remedies available to SG.

Except for the purposes of training, translation, Licensee's internal backup, operational support or internal distribution, Licensee may not copy or allow others to copy any part of the user documentation or other printed material provided with the Software Product.

Hosting

Licensee shall bear sole responsibility for any information uploaded or supplied by Licensee in connection with use of the Software Product. Licensee represents and warrants to SG that it has the rights, permission and consents necessary to lawfully use any information uploaded or supplied by Licensee in connection with use of the Software Product. Licensee shall maintain copies of any information uploaded or supplied in connection with use of the Software Product. IN NO EVENT SHALL SG BEAR ANY LIABILITY FOR THE USE OR LOSS OF ANY INFORMATION UPLOADED OR SUPPLIED BY LICENSEE IN CONNECTION WITH USE OF THE SOFTWARE PRODUCT.

Limited Warranty

SG represents and warrants to Licensee that the Licensee's use of the Software Product will in substantial compliance with the printed product information for a period during the term of SG Software Product license term; in the event a term is not stated the license term will be presumed to be one year and the warranty will expire along with your right to use the SG Software Product. In the event of a breach, Licensee will promptly notify SG of the non-conformity in writing and SG will use reasonable commercial efforts to repair the Software Product to operate in compliance with its written description. SG does not warrant against uninterrupted operation or for any data

loss. All warranties cover only defects arising under normal use and do not include malfunctions or failure resulting from misuse, abuse, neglect, alteration, problems with electrical power, acts of nature, unusual temperatures or humidity, improper installation, or damage determined by SG to have been caused by Licensee. All limited warranties on the Software Product are granted only to Licensee and are non-transferable. Licensee agrees to indemnify and hold SG harmless from all claims, judgments, liabilities, expenses, or costs arising from Licensee's breach of this Agreement and/or acts or omissions. This remedy represents SG's exclusive duty and Licensee's sole remedy even in the event that the remedy should fail in its essential purpose.

Disclaimer of Additional Warranties and Limitation of Liability

EXCEPT AS EXPLICITLY PROVIDED IN THIS AGREEMENT OR OTHERWISE AGREED TO IN WRITING BY SG, SG MAKES NO WARRANTIES, EXPRESS OR IMPLIED, IN FACT OR IN LAW, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OTHER THAN AS SET FORTH IN THIS AGREEMENT.

SG WILL NOT, UNDER ANY CIRCUMSTANCES, BE RESPONSIBLE OR LIABLE FOR THE INTERUPTIONS IN OPERATIONS OF THE SOFTWARE PRODUCT OR FOR ANY LOSS OF DATA ON ANY COMPUTER OR INFORMATION STORAGE DEVICE. TO THE EXTENT THAT THE APPLICABLE JURISDICTION LIMITS SG'S ABILITY TO DISCLAIM ANY IMPLIED WARRANTIES, THIS DISCLAIMER SHALL BE EFFECTIVE TO THE MAXIMUM EXTENT PERMITTED. IN NO EVENT WILL SG'S LIABILITY FOR ANY DAMAGES TO LICENSEE EXCEED THE SUBSCRIPTION FEES PAID BY LICENSEE PURSUANT TO THE SUBSCRIPTION AGREEMENT.

Indemnification

Licensee shall defend, indemnify and hold harmless SG from any demand, suit, cause of action, judgment, liability, cost or expense (including court costs and reasonable attorney's fees) ("Claims") arising out of or in connection with (i) a breach of this Agreement by Licensee, (ii) any information uploaded or supplied by Licensee in connection with use of the Software Product or (iii) any act, error or omission of Licensee or any of its officers, directors, agents, employees or subcontractors.

SG shall defend Licensee, at SG's expense, against any Claims, excluding actions based upon Licensee submitted data or public domain data, made or brought against Licensee by a third party alleging that the use of the Software Product as contemplated hereunder, infringe a patent, copyright, trademark, or other intellectual property right of a third party or misappropriates such third party's trade secrets. Further, SG shall indemnify and hold Licensee harmless against all costs (including reasonable attorneys' fees) to the extent arising out of or in connection with such Claims. Upon receiving notice of a Claim, Licensee shall (a) give SG prompt written notice of the Claim; (b) give SG sole control of the defense and settlement of the Claim (provided that SG may not settle or defend any claim unless it unconditionally releases Licensee of all liability and does not attribute any blame or contributory fault to Licensee); and (c) provide to SG, all reasonable assistance in the defense or settlement of such Claim. In addition to SG's obligations above, SG may, at its expense: (a) secure the right for Licensee to continue to use the Software, (b) modify the Software so as to make it non-infringing, or (c) provide Licensee with a functional non-infringing replacement. If none of these alternatives is commercially practicable, Licensee will have the option to return the Software Product to SG, and SG will refund a pro-rated amount of the fees paid for the current subscription term, using straight line depreciation. This Section states SG's entire liability, and Licensee's exclusive remedy, for any claim of intellectual property infringement under this Agreement.

Equitable Relief

Licensee acknowledges that any use or disclosure of the Software Product in a manner inconsistent with the terms of this Agreement may cause SG irreparable damage for which other remedies may be inadequate, and Licensee

agrees not to oppose any request to a court of competent jurisdiction by SG for injunctive or other equitable relief seeking to restrain such use or disclosure. Licensee waive any right it may have to require SG post a bond or other form of security as a precondition to any such injunctive relief.

Where SG processes PII as that term is defined in General Data Protection Regulation EU 2016/679 or as may be applicable under associated State law ("PII"), SG will be a processor and shall acting on behalf of Licensee as controller and will, in addition to compliance with the obligations set out in this PII Supplement:

- (A) ensure that any of its employees, agents or independent contractors with access to PII are subject to a contractual or statutory obligation to keep PII confidential;
- (B) promptly notify Licensee: (1) if SG is legally required to process PII otherwise than as instructed by Licensee before such processing occurs, unless the law requiring such processing prohibits SG from doing so on an important ground of public interest; and (2) of any instruction given by Licensee in relation to PII which, in SG's opinion, infringes applicable law;
- (C) assist Licensee: (1) in ensuring compliance with Licensee's obligation to respond to requests for exercising data subject's rights under European Data Protection Law or applicable State law; and (2) in relation to any data protection impact assessment, notification or regulatory consultation that Licensee is legally required to make in respect of European or State law for known or suspected Security incidents involving thee PII;
- (D) not subcontract any of its processing operations under the relevant Purchase Agreement or Purchase Order unless SG has: (A) obtained specific prior written consent of Licensee to do so; or (B) obtained general written authorization of Licensee to do so and has notified Licensee of any intended changes concerning the addition or replacement of service providers, giving Licensee the opportunity to object to such changes;
- (E) not export any European PII which is processed within the European Economic Area without the prior written permission of Licensee and, where permission is granted, taking such steps as Licensee may reasonably require in order to ensure such export is carried out in accordance with European Data Protection Law.

Legal Compliance.

Licensee must ensure that Licensee's use of Software and all Licensee Data is at all times compliant with applicable local, state, federal and international laws and regulations ("Laws") provided, however, that Licensee's failure to do so shall not be deemed a breach of the foregoing to the extent caused by the Software itself or SG. Licensee represents and warrants that: (i) Licensee has obtained all necessary rights, releases and permissions to provide all Licensee Data to SG and to grant the rights granted to SG in this Agreement and (ii) Licensee Data and its transfer to and use by SG as authorized by Licensee under this Agreement do not violate any Laws (including without limitation those relating to export control and electronic communications) or rights of any third party, including without limitation any intellectual property rights, rights of privacy, or rights of publicity, and any use, collection and disclosure authorized herein is not inconsistent with the terms of any applicable privacy policies. Other than its security and confidentiality related obligations set forth in this Agreement or in the SG Privacy Policy its negligence or willful misconduct, SG assumes no responsibility or liability for Licensee Data, and Licensee shall be solely responsible for Licensee Data and the consequences of using, disclosing, storing, or transmitting it.

Governing Law, Jurisdiction and Costs

This Agreement is governed by the laws of Delaware, without regard to Delaware's conflict or choice of law provisions. All disputes arising under this Agreement must be heard in State or Federal courts located in the State of Delaware.

Headings

Headings of sections in this Agreement are inserted for convenience only, and are in no way intended to limit or define the scope and/or interpretation of this Agreement.

Amendments

SG may amend this agreement at any time. Such amendments shall be effective as of the date of notice to Licensee. Notice to Licensee shall include requiring Licensee to renew its acceptance and agreement to the terms of this Agreement by selecting the "Accept" option after logging in to the Software Product with a registered user ID and password.

Severability

If any provision of this Agreement shall be held to be invalid or unenforceable, the remainder of this Agreement shall remain in full force and effect. To the extent any express or implied restrictions are not permitted by applicable laws, these express or implied restrictions shall remain in force and effect to the maximum extent permitted by such applicable laws.

IN WITNESS WHEREOF, this Agreement has been executed as of the date first written above.

Sustainable Generation, Inc.	Licensee: Gilton Inc.
BY:(Signature)	BY:(Signature)
(Name)	(Name)
(Date)	(Date)

Attachment A SG Software Product Description

Compost Control System (CCS) Software

- Controls the CCS hardware stack which consists of CPU's, micro controllers, sensors, and relays.
 - o For use with SG Bunker® System with GORE® Covers
 - o For use with positive aeration
 - o Internet enabled control system with continuous monitoring and logging
 - o Programmable and manual operation modes selected via user interface
 - Programmable Mode- User sets operating times for blower-on and blow-off
 - Manual Mode- User can turn blower on or off manually via software
 - Backup Automatic based on time or manual (backup any time)
- Compost Server Software
 - o Controls the data acquisition and storage for the CCS
 - Management Framework for data
 - Provides data storage through a local stored database.
 - Custom network protocol for communications between control system and CCS.
 - Remote access for service for patching and firmware updates both server and control systems.
 - Control systems (Bunker)
 - Backup and restore services for all collected data
 - Reporting facility to generate regulatory reports.
 - End user access to data through User Interface
 - Basic reporting ability
 - One report for each day for: Record date, heap ID, bunker location, 5 temperature values, average temperature, blower state Temperatures, phase of heap, Regulatory reporting for PFRP. Reports are non-editable PDF format
 - Basic monitoring of compost process
 - Near real time reporting of: date, time, temperature, location, operating mode
 - Controls network for PCU'S
 - o Provides remote ability for servicing the environment
 - Remote delivered software updates when they are made generally available by SG such as flashing micro controllers and software patches.
- Process Control Unit (PCU) Software
 - o Acquires 5 point temperature sensor data from Temperature Probe
 - o Acquires Oxygen sensor data from O₂ Probe
 - Sends and receives data to server through CCS network



Hanes Geo Components Project Quote www.hanesgeo.com

Quote ID:	QUO-38992-M0C5		Rev: 0
Bid Date:	4/29/2022	Hanes Project:	PRJ-0027160
	REP	LY TO:	
Contact:	Andrea Neale		
Title:	Regional Sales	Manager	
Phone:	805-657-2130		
Fax:	760-431-2453		
E-mail:	Andrea.neale@	hanescompanie	s.com

Heavy Civil & Erosion Control Contractors choose Hanes Geo Components as their trusted partner to provide first quality stabilization fabrics, geogrids and stormwater compliance products at an honest price.

Project Name:	Miramar Landfill - Organics Processing Facility	Project Id:	22-04-056
Company:	SUKUT CONSTRUCTION - Santa Ana	-	
Attn:	Charles Malis	Phone:	888 785-8801
E-mail:	cmalis@sukut.com	Fax:	

"The following estimated quantities are provided for informational purposes only; the contractor is responsible for determination of the material quantities used in preparation of the bid"

CONFIDENTIAL MATERIAL QUOTATION - 30 DAY PRICE GUARANTEE

Product	Product Description	Comment	Quantity	Unit Price	UOM	Unit Total
32386	TENSAR NX850 12.5' X 197' (273.6SY)	Multi-axial Geogrid *price valid through 12/31/22, 5% increase if shipped after 1/1/23	2,805,000	\$0.649	SF	\$1,820,445.00
38760	TERRATEX N12E 15'X300' 500 SY	12 oz NonWoven Geotextile	27,500	\$0.23	SF	\$6,325.00
38117	TERRATEX N06 15'X300' 500 SY	NonWoven Geotextile	27,500	\$0.11	SF	\$3,025.00
88071	FREIGHT	Estimated freight to jobsite	12	\$900.00	EA	\$10,800.00

Subtotal \$1,840,595.00
+ Estimated Freight SEE ABOVE
Estimated Project Total \$1,840,595.00

Footnotes:

- 1. Pricing guaranteed for 30 days. Subject to confirmation and order acceptance at the time of order placement.
- 2. Freight cost is estimated and assumes all product ships to one location at one time. Freight shall be requoted at time of order. Additional deliveries will have additional freight charges applied.
- Quantities are either based on the bid documents or are estimated using the best information available. Hanes Geo Components assumes no liability for the accuracy of the quantities and is reliant on the bidding contractor to perform their own takeoff and establish accurate quantities.
- 4. All product(s) herein are quoted subject to approval by an engineer and/or owner.

Terms of Sale

Prices are FOB origin unless stated otherwise. Unloading by others. Payments are net 30 days from date of invoice, subject to credit approval. Sales tax is not included: ADD when applicable. Prices quoted apply only to the project specified herein. The prices quoted herein shall remain in effect for 30 days from the date of this quotation. Seller reserves the right to adjust the prices after 30 days from the date of quotation. Buyer must notify seller in writing of any special provisions required for each job such as material needed to meet any ARRA or buy American requirements. Prior to quotation of pricing and delivery. Failure to do so will result in the assumption that no special provisions apply. For shipments that are less than a full truck load and less than \$750 dollars, additional delivery charges will apply and pricing is based on one delivery.

THE TERMS OF THIS SALE ARE SUBJECT TO LEGGETT & PLATT, INCORPORATED'S STANDARD TERMS AND CONDITIONS WHICH ARE LOCATED AT www.leggett.com/important-links.htm.

Ассер	rted:
Subject to being awarded the contract we hereby order the material described above at	the prices specified subject to all terms and conditions appearing on this quotation.
Ву:	Title:
Ship to Address:	Date:



Bill To:

930817
LANDFILL QUOTE
2WEST
100 WITHERSPOON ST
LOUISVILLE, KY 40202-1396

Ship To: MIRAMAR LANDFILL 5180 CONVOY ST SAN DIEGO, CA 92111

Quotation

Quote Number	35025588
Quote Date	04/11/22
Expiration Date	04/18/22
Page	1 of 2

Payment Terms NET 30	Customer Job/Project Name	Written By MEYER VINCZE
Freight Terms PREPAID AND ADD	Contact	Sales Rep CALIFORNIA LANDFILL SALES
Ship Via Best Way	Additional Info WEST MIRAMAR LF ORGANICS FACILITY	

#	Qty	UM	Product	Description	Each	Extended
				6" RECYCLED WATER LINE		
	5,480	FT	10061122	6" DR 11 IPS PIPE HDPE AWWA	8.00	43,840.00
	14	EA	50061124	6" DR 11 IPS 90 DEG ELBOW MOLDED HDPE	35.00	490.00
	2	EA	50061126	6" DR 11 IPS TEE MOLDED HDPE	45.00	90.0
	3	EA	50061122	6" DR 11 IPS FLANGE ADAPTER HDPE	22.00	66.0
	3	EΑ	53060031	6" DR 11 IPS BACKUP RING DUCTILE IRON	18.00	54.0
	3	EΑ	53061016	6" NEOPRENE GASKET 1/8" THICK	4.00	12.0
	3	EA	53061012	BOLTPACK FOR 6" MFA & BUR (8)3/4"X 5-7/8" BOLT W/NUT WSH	30.00	90.0
	2	EA	49060012	6" IPS HDPE BLIND FLANGE 1" THICK	35.00	70.0
	1	EA	40061161	6" DR 11 IPS 11.25 DEG ELBOW 2-SEG FAB HDPE EDR 13.5	65.00	65.0
0	4	EA	53019999	6" X 100' PURPLE DETECTABLE TAPE RECYCLED WATER	105.00	420.0
			Subtotal			45,197.0
				6" GATE VALVES		
	40	_^	50000000	OUR DE CATE MANYE ELANGER MILOR NUIT	205.00	10.000.0
1	12		59069999	6" DI GATE VALVE FLANGED W/ OP NUT	835.00	10,020.0
2	24	EA	50061122	6" DR 11 IPS FLANGE ADAPTER HDPE	22.00	528.0
3	24	EA	53060031	6" DR 11 IPS BACKUP RING DUCTILE IRON	18.00	432.0
4	24	EΑ	53061016	6" NEOPRENE GASKET 1/8" THICK	4.00	96.0
5	24	EA	53061012	BOLTPACK FOR 6" MFA & BUR (8)3/4"X 5-7/8" BOLT W/NUT WSH	30.00	720.0
			Subtotal			11,796.0
				6" WATER METER		
6	1	EA	59069999	6" ELSTER TS4000 WATER METER FLANGED	6500.00	6,500.0
7	2	EA	50061122	6" DR 11 IPS FLANGE ADAPTER HDPE	22.00	44.0
8	2	EΑ	53060031	6" DR 11 IPS BACKUP RING DUCTILE IRON	18.00	36.0
9	2	EΑ	53061016	6" NEOPRENE GASKET 1/8" THICK	4.00	8.0
0	2	EA	53061012	BOLTPACK FOR 6" MFA & BUR (8)3/4"X 5-7/8" BOLT W/NUT WSH	30.00	60.0
			Subtotal			6,648.0
				12" CPP PIPING		
1	380	FT	25121099	12" CORRUGATED HDPE PIPE WT	12.00	4,560.0
			Subtotal			4,560.0
				AIR RELEASE VALVES		
2	1	EA	65019999	2" AIR RELEASE VALVE ASSEMBLY	1500.00	1,500.0
			Subtotal			1,500.0
				2" BLOWOFF ASSEMBLY		
3	3	EA	65029999	2" BLOWOFF ASSEMBLY	1800.00	5,400.0
			Subtotal			5,400.0
			Justolai			5,700.0
				HDPE PIPE TEE CONNECTION DET 3/5		



Bill To:

930817
LANDFILL QUOTE
2WEST
100 WITHERSPOON ST
LOUISVILLE, KY 40202-1396

Ship To: MIRAMAR LANDFILL 5180 CONVOY ST SAN DIEGO, CA 92111

Quotation

Quote Number	35025588
Quote Date	04/11/22
Expiration Date	04/18/22
Page	2 of 2

#	Qty	UM	Product	Description	Each	Extended
24	18	EA	50061166	6" X 4" DR 11 IPS REDUCING TEE MOLDED	105.00	1,890.00
25	18	EA	50041129	4" X 2" DR 11 IPS CONCENTRIC REDUCER	12.00	216.00
26	18	EA	53021123	2" DR 11 IPS MPT TRANS FIT STAINLESS STEEL 304, CAT 3	35.00	630.00
27	18	EA	59020003	2" SS THREADED BALL VALVE FPT	185.00	3,330.00
28	18	EA	98020058	2" SS CAMLOCK PART F MALE CAM X MPT	45.00	810.00
29	18	EA	98020066	2" SS CAMLOCK PART DC DUST CAP	65.00	1,170.00
			Subtotal			8,046.00
				FREIGHT		
30	1	EA	9999997	FREIGHT	2500.00	2,500.00
			Subtotal			2,500.00

ISCO Standard Terms and Conditions apply. Please visit http://www.isco-pipe.com/terms-and-conditions.aspx

Merchandise Total	Tax(1)	Freight(2)	Quote Total
85,647.00	6,443.95	0.00	US \$ 92,090.95
Sales tax will be charged based on the ship to address at the time of invoice if there is no tax certificate on file.		Accepted By:	
Preight amount in this quote is an estimate only. Actual freight terms and charges will be determined at the time the order is placed.		Printed Name: Date:	

Budgetary Proposal

Sales Manager:
Mike Harman

69 678-697-9722

<u>Mharman@biorem.biz</u>

Project Name: City of San Diego- Miramar Landfill

BIOREM#: 22-5032

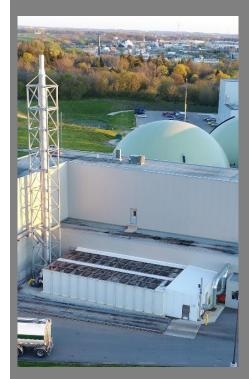
Revision: 0

Date: April 25, 2022





LEADING INNOVATION IN BIO-ENGINEERED AIR CONTROL TECHNOLOGIES



Founded in 1991, BIOREM® is a global clean technology engineering company with one objective: engineer, design, manufacture and distribute the most innovative and effective biological-based emissions abatement technologies in the world.

As a leader in emissions abatement, our engineering teams have installed more than 1,200 projects worldwide. We specialize in tackling the exceptionally difficult problems of odour, volatile organic compounds (VOCs), and hazardous air pollutants, then engineering innovative solutions for the lowest life cycle cost of any technology.

BIOREM offers a lifetime commitment that our engineered systems will solve your air emissions and odour control problems. At the core of our business strategy is to be your trusted partner.

This means you can rely on BIOREM for any project, any size, anywhere and be certain you have the best available technology and support to solve your most difficult challenges.

Engineering the Difference

Superior physical, chemical and biological solutions that effectively and reliably control air emissions require advanced engineering knowledge and expertise. This is why all BIOREM teams are multidisciplinary units comprising biological, chemical, environmental and mechanical engineers and scientists.



BiofiltAIR - Concrete Biofilter

BiofiltAIR systems are for large airflows and particularly suited for dense urban environments. They can be integrated into the building envelope, or located underground, above ground or a combination of the two.

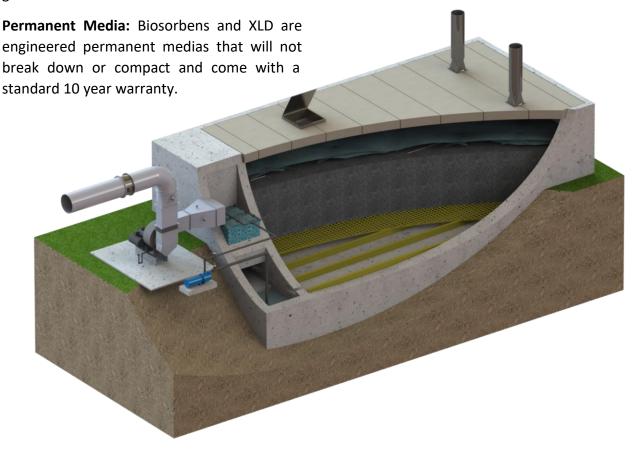
These systems can also be designed for forced draft or induced flow (positive or negative pressure) and are available with a wide range of instrumentation and controls.

BiofiltAIR systems are aesthetically pleasing and can be integrated seamlessly with onsite weather stations and continoOus performance monitoring.

Custom: Units are built to the specific needs and requirements of each client to ensure guaranteed satisfaction.

BIOREM is the only reliable solutions provider able to guarantee systems to meet a 1 OU odor requirement and has a proven track record to demonstrate this.

Our engineers have created the larges performance database for odor control and can work with clients to assist on forecasting operating scenarios for greenfield applications.





Revision History

Number	Description	Date	Author
0	Initial budgetary proposal	April 22, 2022	МН

Contents

Project Details	4
System Performance	Error! Bookmark not defined.
Warranties	5
Scope of Supply	6
Exceptions	Error! Bookmark not defined.
Contractor Scope of Supply	8
Quotation	9
Terms and Conditions	10



Project Details

Table 1 - Inlet Foul Air Quality

Process Parameter	Value
Flow Rate	100,000 SCFM
Temperature	50 - 100 °F
Relative Humidity	>50% RH

Table 2: Overall System Configuration and Common Utilities

Design Parameter	Value
System Configuration	Two cells with in-plenum pre-treatment
Estimated Water Consumption	15,000 GPD
Electrical Supply Required	460V / 3PH / 60Hz
Estimated System Footprint	50 ft x 200 ft

Table 3: Client Water Quality Requirements

Design Parameter	Value
рН	5 - 8
Total Suspended Solids	<5 mg/L
Hardness	<100 mg/L
BOD	<5 mg/L
Total N	<5 mg/L
Total P	<5 mg/L
Free Chlorine	<2 mg/L
Turbidity	<25 NTU
Recommended Source	Potable preferred



Table 4: Biofilter Vessel Design

Design Parameter	Value
Number of Treatment Trains	2
Number of Internal Treatment Stages	2: humidifier followed by biofilter
Concrete Vessel Overall Dimensions	200 ft length : 56 ft width : 10 ft height
Humidifier Drain Water pH	5 - 8
Biofilter Drain Water pH	5 - 8

Warranties

- A. The Manufacturer warrants that the biofilter media will not compact, degrade or decompose for a period of 10 years from the date of Substantial Completion, provided that the system is operated in accordance with the Manufacturer's printed Operation and Maintenance Manuals.
- B. All mechanical components will be warranted free of manufacturing defects for a period of 12 months from Substantial Completion, or 18 months of shipment, whichever occurs first.



Scope of Supply

- 1. Concrete biofilter vessel structural design, supply and installation **by others**.
- 2. Biofilter media support flooring. Material of construction to be resin composite.
- 3. (1) Humidifier media support flooring.
- 4. Humidification mass transfer packing, provided in boxes approximately 10 cubic feet in size.
- 5. Engineered biofilter media, provided in loose bulk.
- 6. (1) Lot interconnecting ductwork, including two (2) dampers, between fans and biofilter structure.
- 7. (2) Rectangular flexible transition pieces on fan outlet, flange material of construction to be 304SS.
- 8. (2) 15 HP recirculation pumps rated for 270 GPM at 100 ft head with a TEFC motor.
- 9. (2) 100 HP centrifugal FRP exhaust fans rated for 50,000 CFM at 8 inWC with a TEFC motor. Fan static pressure allows for 2 inWC pressure loss through external ductwork.
- 10. (2) Schedule 80 PVC manifolds with spiral spray nozzles for optimized coverage of humidification media.
- 11. (2) Schedule 80 PVC manifolds with matched precipitation rate nozzles for optimized coverage of biofilter media.
- 12. (1) Control Panel:
 - i. NEMA 4X 304 stainless steel floor mount enclosure sized to suit during design.
 - ii. (1) Door interlocked fused disconnect.
 - iii. (2) VFDs for exhaust fans.
 - iv. (4) Fused motor starters for recirculation pumps.
 - v. (1) 120 VAC control transformer complete with primary and secondary fusing.
 - vi. (1) 24 VDC power supply.
 - vii. Lot hand switches and status lights.
 - viii. Lot terminal strips for field connections such as instrumentation and dry contacts to SCADA. Motors direct wire to starters/VFDs.





- 13. "Water Panel" Instrumentation (shipped loose, assembly and installation/mounting by others):
 - i. (4) Flow indicator/switches, on recirculation lines (local read).
 - ii. (4) Variable area rotameters, on blowdown lines (local read).
 - iii. (4) Flow totalizing indicators, on biofilter irrigation lines (local read).
 - iv. (4) Solenoid valves, on biofilter irrigation lines.
 - v. (4) Pressure indicators, on water supply lines (local read).
 - vi. Lot fluid control valves and strainers.
- 14. Instrumentation and fluid control valves external to waterbox:
 - i. (4) Air differential pressure indicators, across media beds (local read).
 - ii. (1) Air temperature indicator, on inlet duct to system (local read).
 - iii. (2) Temperature indicators, in biofilter media beds (local read).
 - iv. (8) Pressure indicators, on inlet and outlet sides of the recirculation pumps (local read).
 - v. (1) Lot fluid control valves and strainers.
- 15. Engineering Submittal packages.
- 16. Operation and Maintenance manuals.
- 17. Field services will consist of the following:
 - i. (1) Trip of 4 days for system commissioning and operator training.
 - ii. (1) Trip of 2 days for performance testing. Includes taking four odor samples to be analyzed by a third party laboratory.

Note: The control panel and water panel instrumentation are not rated for use in a hazardous classified location. They must be installed in an unclassified location as defined by NFPA 70 and NFPA 820.





Contractor Scope of Supply

Unless specified previously in this document, the following items listed are to be supplied by the Contractor and are not in the Manufacturer's Scope of Supply.

- 1. Provide all equipment offloading, temporary storage and placement.
- 2. Provide labor, materials and equipment for the installation and assembly of all BIOREM supplied equipment and instrumentation. Supply and install all other materials or equipment required for a complete operational system.
- 3. Site preparation and clearing of materials.
- 4. Design and supply an appropriately sized reinforced concrete slab to handle full load of applicable vessels, fans, control panels and waterboxes. Provide collection and analysis of any geotechnical data as required.
- 5. Design, supply and install appropriately sized anchor bolts for all equipment including vessels, fans, control panels and waterboxes.
- 6. Supply and install all required protective coatings or paint such as UV paint for piping or concrete paint.
- 7. Supply and install all external water piping and drain piping to and from vessels, waterboxes and other fluid equipment including heat tracing, insulation, piping supports, drainage traps where necessary and / or UV protective paint.
- 8. Supply and install all hardware, supports, guide wires, duct gaskets, expansion joints and connectors needed for a complete and operational system.
- 9. Supply make-up water at a minimum pressure of 40 psi. Water analysis for hardness or other parameters as necessary.
- 10. Provide main electrical service and system field wiring outside the main odor control panel. All electrical requirements for heat tracing and equipment not specifically provided by BIOREM to be provided by others.
- 11. Media onsite storage and installation. The Contractor shall be required to remove vessel access covers, install and distribute media evenly across the vessel, assemble media irrigation system and reinstall covers.
- 12. Provide duct balancing, and system functional, hydrostatic, vibration and performance testing to be conducted by OTHERS as may be specified.



Quotation

Item	Price
BiofiltAIR Concrete Biofilter System Delivery: Ex Works	\$ 3,250,000

Commissioning	Included
Performance Testing	Included
Submittal Schedule	4 - 6 weeks after acknowledgement of order and confirmation from BIOREM's Project Manager
Delivery Schedule	12 - 14 weeks after approved submittals
Payment Terms	10% upon approvals, 80% upon delivery, 10% upon system commissioning
Price	All prices in US Dollars, applicable taxes are extra, prices are guaranteed for 90 days from date of quotation

BIOREM

Terms and Conditions

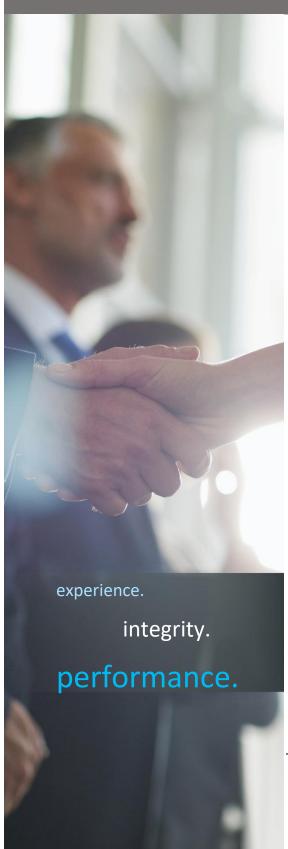
Pricing: Unless otherwise specified in writing by BIOREM, price does not include any taxes, excises, duties, tariffs or other governmental charges which BIOREM may be required to pay or collect under existing or future law with respect to the sale, transportation, delivery, storage, installation or use of any of the equipment sold by BIOREM.

Cancellation: Unless otherwise agreed in writing by the parties, the Buyer may not cancel the Order, except upon written notice and payment to Seller of an amount covering all costs incurred under the Order, all costs which arose out of the cancellation, and a cancellation fee of 50% of the Order Price. Materials received and Goods manufactured in part or whole under the Order prior to the time of cancellation shall be retained by and shall be property of the seller. When calculating the cancellation related costs, payments made by buyer to seller prior to cancellation shall be taken into account.

Limitation of liability: Seller's liability to the price allocable to the goods determined defective, and in no event will seller's cumulative liability be in excess of the total sales order price, whether arising under warranty, contract, negligence, strict liability, indemnification, or any other cause or combination of causes whatsoever. Seller will not be liable for any special, indirect, incidental, or consequential damages or indemnification, or any other cause or combination of causes whatsoever. This limitation shall apply notwithstanding any failure of essential purpose of any limited remedy. Buyer's remedies are specifically limited to the repair or replacement of the goods and is exclusive of all other remedies. Should these remedies be found inadequate or to have failed their essential purpose for any reason whatsoever, buyer agrees that return of the full sales order price to it by seller shall prevent remedies from failing their essential purpose and shall be considered by buyer as a fair and adequate remedy.



OUR PROMISE TO YOU



EXPERIENCE MATTERS

With more than 25 years of solving the most difficult air emissions challenges under adverse process conditions and intense scrutiny from customers, regulators and communities; each new project builds upon this immense knowledge base. As engineers, our goal is to continually innovate and improve so that your project benefits from the best available technology for superior results.

INTEGRITY RULES

BIOREM has established a rigorous code of ethics that upholds the highest level of ethical conduct, standards of practice and integrity pertaining to our professional duties. Anti-corruption measures are applied to all our projects from RFP through to commissioning and ongoing support.

Our partnerships with consulting engineers, contractors, municipalities, industry, suppliers and government regulators are carefully scrutinized and monitored to ensure our worldwide reputation for fair and transparent transactions is protected. We reserve the right to refuse business based on ethical considerations.

PERFORMANCE GUARANTEED

We guarantee that the performance of our products and systems will meet or exceed your expectations. From initial discussions where we learn about the problems that you need solving, through to expert assessments, precision manufacturing, timely distribution, user-friendly training and complete administrative support, we hold ourselves to the highest standards.

It is our promise to you

BIOREM Technologies Inc. 7496 Wellington Road 34, Puslinch, ON Canada NOB 2J0

info@biorem.biz

1-800-353-2087

519-767-9100

BIOREM Environmental (US) Ltd. 100 Rawson Road, Suite 230 Victor, NY, 14564

info@biorem.biz
1-800-353-2087
519-767-9100

BIOREM (Beijing) Environmental
Technologies Co., Ltd.
Tsinghua Science and Technology Park
Innovation building A, Haidian District
Floor 13, Room 1301

Beijing, China 100084 (*) +86(10)6530 5080 **Corporate Headquarters**: 5415 Village Drive Rockledge, Florida 32955 **Manufacturing Facility:** 377 Woodland Ave. Elyria, Ohio 44035













Experts in designing and manufacturing odor control and air pollution control equipment

Per your request on 04/28/2022, the cost of the list of material is \$578,000 delivered to jobsite.

Your quote includes:

- (480') 48"Ø duct
- (320') 84"Ø duct
- (15) flanges-undrilled
- (6) 90° taps
- (12) 48"Ø 90° elbow
- (2) Endcaps
- Weld kits
- Freight to California

Your quote excludes:

- Field services
- Installation
- Sales tax
- Pressure testing
- Flange-drilling
- Nuts, bolts and gaskets

Thank you,

Alex Hosley

Perry Fiberglass Products Inc.

Phone: 321-609-9036 Fax: 321-609-9003

Email: Alex@perryfiberglass.com

www.perryfiberglass.com

Corporate Headquarters: 5415 Village Drive Rockledge, Florida 32955

Manufacturing Facility: 377 Woodland Ave. Elyria, Ohio 44035













Experts in designing and manufacturing odor control and air pollution control equipment

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Experts in designing and manufacturing odor control and air pollution control equipment



Thursday, April 28, 2022

Charles Malis
Sukut Construction
4010 West Chandler
Santa Ana, CA 92704-5274
714-460-1020 Cell 714-296-2638
cmalis@sukut.com

Reference: San Diego – Design/Build

Quotation #SPP516

Dear Charles:

As per your recent request, I am pleased to submit for your review and evaluation the following proposal to supply the requested tanks.

Please note that most accessory items and occasionally some connections are shipped loose to avoid damage during transit and are to be field installed by others.

Our base proposal includes the connections and accessories that we discussed or were identified within the specifications for your project. The materials of construction and design of every connection are designed to provide optimum chemical compatibility, performance and value.

I truly appreciate this opportunity to quote to your tank requirements and look forward to working with you on this project. Please let me know when I can provide you with any additional or more detailed information.

Sincerely,

Sean Ireland

Sean Ireland, Sales Engineer Core-Rosion Products O: 855-998-7345 C: 562-296-4780 smireland@core-rosion.com Charles Malis Sukut Construction Quotation # SPP516 April 28, 2022 Page 2

1.0 5100 GALLON STORAGE TANK

1.1 Application: Potable Water

1.2 Tank Specifications

_		
Model #	Capacity	Dimensions
11005100	5100 Gallons	10'2" x 10'7"
Configuration	Material	Color
Flat Bottom / Dome Top	Crosslinked Polyethylene	Natural
Design S.G.	Design Pressure	Contents Design Temperature
1.35	Atmospheric	100°F

A. Connections: PVC Fittings / EPDM Gaskets / 316 SS Hardware (where applicable)

Inlet	Outlet	Vent
2"	2"	8"

B. Features and Accessories

- 24" Top Manway
- Exterior fill line

1.3 Pricing

 Tank and Accessories as Detailed Above, Excluding Sales Tax and Freight 	\$11,216
Estimated Freight to Jobsite - 92111	\$2,850
 2" PVC/SS/PTFE Expansion Joint Assembly 	\$1,012
Fiberglass Access Ladder with Operator Safety Deck	\$2,653
 OSHA Compliant Fall Protection System (SS) with Harness Assembly 	\$1,798
 Outdoor Seismic Restraint System – galvanized components 	\$1,935
Wet Stamped Sesimic Design Calculations	\$1,500

1.4 Notes & Exceptions

- Expansion joints required on lower sidewall connections to maintain manufacturer's warranty
- Anchor bolts by others (restraint systems, ladders, stairs, expansion joint assemblies)
- To avoid damage in transit, some accessories are shipped loose for field installation by others

1.5 Links to Helpful Data

Tank Drawing	<u>Warranty</u>		Warranty NSF 61 Certification		<u>OR1000</u>
F.S. 2650 Vented May	vay	<u>IMFO™</u> F	ull Drain		B.O.S.S. Fitting
Installation Guide & Vid	deos	Specific Chemic	cal Applications		<u>FlexiJoint</u>

Charles Malis Sukut Construction Quotation # SPP516 April 28, 2022 Page 3

2.0 13,650 GALLON STORAGE TANK

2.1 Application: Leachate

2.2 Tank Specifications

Model #	Capacity	Dimensions
11013650	13,650 Gallons	13'9" x 16'4"
Configuration	Material	Color
Flat Bottom / Dome Top	High Density Polyethylene	Natural
Design S.G.	Design Pressure	Contents Design Temperature
1.35	Atmospheric	100°F

A. Connections: PVC Fittings / EPDM Gaskets / 316 SS Hardware (where applicable)

	<u> </u>	, , , , , , , , , , , , , , , , , , , ,
Inlet	Outlet	Vent
2"	2"	8"

B. Features and Accessories

- 24" Top Manway
- Exterior fill line

2.3 Pricing

_	
 Tank and Accessories as Detailed Above, Excluding Sales Tax and Freight 	\$32,758 ea
Estimated Freight to Jobsite - 92111	\$5,500 ea
• 2" PVC/SS/PTFE Expansion Joint Assembly	\$1,012 ea
Fiberglass Access Ladder with Operator Safety Deck	\$3,257 ea
 OSHA Compliant Fall Protection System (SS) with Harness Assembly 	\$1,798 ea
Outdoor Seismic Restraint System – galvanized components	\$2,496 ea
Wet Stamped Sesimic Design Calculations	\$1,500

2.4 Notes & Exceptions

- Expansion joints required on lower sidewall connections to maintain manufacturer's warranty
- Anchor bolts by others (restraint systems, ladders, stairs, expansion joint assemblies)
- To avoid damage in transit, some accessories are shipped loose for field installation by others

2.5 Links to Helpful Data

Tank Drawing	<u>Warranty</u>		NSF 61 Certification		OR1000
F.S. 2650 Vented May	<u>way</u>	<u>IMFO™</u> F	ull Drain		B.O.S.S. Fitting
Installation Guide & Vi	deos	Specific Chemic	cal Applications		<u>FlexiJoint</u>

Charles Malis Sukut Construction Quotation # SPP516 April 28, 2022 Page 4

3.0 TERMS & CONDITIONS

Drawings	7 - 10 business days after receipt of order
Shipment	8 -10 weeks after receipt of approved drawings (based on current shop loading)
Manufacturer's Warranty	Linked in quotation
FOB Points	All items are FOB Shipping Point
Freight Terms	Prepay and Add unless otherwise instructed by buyer
Prices Effective	30 days
Shipping Costs	Not included unless otherwise indicated
Sales Tax	Not included unless otherwise indicated
Sales Tax	Will be billed at the rate in effect at the time of shipment
Sales Tax	Will be charged unless a resale card is on file (CA shipments only)
Payment Terms	25% with order, balance net 20 days after shipment - OAC
Delayed Shipment	Invoice due N20 at time of readiness to ship – storage fees may apply
Damaged Freight	Must be noted on the freight bill to establish liability
Crating / Special Handling	Will be invoiced at cost + 10% handling fee
Credit Card Payment	Visa / MC / Amex accepted + 3% surcharge added
Off-Loading / Installation	By others
Lateral Restraint System	Wet stamped calculations are required to verify regulations conformance
Anchor Bolt Design	By others (unless slab design conforms with minimums per calculations)
Anchor Bolts	Not included unless otherwise indicated
Flange Gaskets / Bolt Kits	Not included unless otherwise indicated
Expansion Joints	Required for lower 1/3 sidewall connections to preserve tank warranty
Missing Parts	Claims must be made within 30 days of delivery
Ladder Design	Ladder height is based on footings at tank floor level
Vessel Dimensions	Stated dimensions are the OD of the shell and height of dome
Seismic Angle Clips	Distance from tank shell must comply with drawings provided
Disclosure	Items not specifically identified within this proposal are not included
Cancellation Charges	25% Deposit / 50% After Submittals / 100% After Approval
Preliminary Notice	Standard procedure when equipment is purchased for resale

4.0 Ordering Instructions

Core-Rosion Products 3300 E. 19th Street Signal Hill, CA 90755 Attention: Sean Ireland

O: 855-998-7345 C: 562-296-4780

smireland@core-rosion.com



Miramar Greenery Improvements

	Task	TOTAL FEE
Task 1	· Civil Design (SW-SWW)	
1.1	Hydrology/Drainage/Pond	\$24,994
1.2	Intake facility Pad	\$25,327
1.3	Composting Facility	\$29,682
1.4	Access Road Design	\$18,985
1.5	Water Supply System	\$54,100
1.6	Leachate System	\$33,207
1.7	Plans	\$256,337
1.8	Specifications	\$27,992
1.9	CQA Plan	\$10,389
		\$481,013
Task 2	- Permitting	
2.1	Update RCSI	\$46,884
2.2	Update Technical Report	\$42,088
2.3	Air Permitting	\$14,388
2.4	Fire Dept Permitting	\$67,143
	Task 2 Total	\$170,501
Task 3	GCCS Modifications/CASP Support	
3.1	GCCS Design/Eng. Support/Record Drawings	\$65,963
3.2	CASP Design	\$150,271
3.3	Air Permitting	\$31,135
3.4	Design Support	\$25,253
	Task 3 Total	\$272,621
Task 4	Additional Disciplines	
4.1	Architect	\$343,750
4.2	Geotech	\$165,000
4.3	Structural	\$137,500
4.4	Electrical/ Controls	\$343,750
	Task 4 Total	\$990,000
Task 5	Engineering Support	
5.1	Engineering Support	\$403,247
5.2	Geotechnical Field Support	\$289,952
	Task 5 Total	\$693,199
Task 6	Project Management/Admin	
3.1	Prepare Master Capital Expansion Plan	\$80,069
	Task 6 Total	\$80,069



Phone: 323.455.5012 Fax: 323.455.5013 www.zilaco.com

Main: 10880 Wilshire Blvd, Ste 1101

Los Angeles, CA 90024 **North CA:** 7 W 41st Ave, #228 San Mateo, CA 94403

DIR Registration #: 1000062414 California License #: C4212634 SLB/SBE Certificate #: 4166

Proposal No. S015063-5

Date: 4/29/2022

RE: SWPPP for Organics Processing Facility

Dear Ariel Vaca

We would like to submit a quote for preparing Storm Water Pollution Prevention Plan (SWPPP) of the Organics Processing Facility project (S015063-5), which you are bidding on. Our certified QSD can prepare your SWPPP or WPCP in 3 business days, once you sign and email the proposal back to me.

If you have any question or need stormwater related services such as SWPPP, NOI, NOT, Erosion Control Plan, WPCP, and BMP Plan preparation and QSP inspection for any of your projects, please let me know.

Alex Ardani

Executive Assistant, Stormwater Division

Zila

Office: 323.455.5012 ext. 71

Direct: 323.455.5014 Fax: 323.455.5013 Email: alex@zilaco.com

www.zilaco.com



Phone: 323.455.5012 Fax: 323.455.5013 www.zilaco.com

Main: 10880 Wilshire Blvd, Ste 1101

San Mateo, CA 94403

DIR Registration #: 1000062414 California License #: C4212634 SLB/SBE Certificate #: 4166

SWPPP Proposal

Proposal No. S015063-5 Date: 4/29/2022

To (Client): **Project:**

Ariel Vaca **Organics Processing Facility**

Sukut Construction Project No: K-22-2049-DB1-3-C, L-17000.2 5180 Convoy St, San Diego, CA 92111

Item	Task	U/M	Unit Price	Qty	Total	Initial
1	Prepare Stormwater Pollution Prevention Plan (SWPPP) by Certified QSD Including Revisions	LS	\$1,295.00	1	\$1,295.00	
2	Prepare Application to Obtain NOI (Notice of Intent) and WDID / SWPPP Upload to SMARTS	LS	\$275.00	1	\$275.00	
3	Prepare Application to Obtain NOT (Notice of Termination)	LS	\$275.00	1	\$275.00	
4	Prepare Stormwater Annual Report in SMARTS (due Sept 1st)	EA	\$275.00	3	\$825.00	
5	Visual/QSP Inspections - Weekly, Pre/During/Post Rain Event (REAP & Stormwater Discharge Sampling), & Quarterly non-Stormwater Inspections	Visit	\$250.00	128	\$32,000.00	
6	Prepare Erosion Control Plan or Dust Control Plan	LS	\$895.00	0	\$0.00	
7	Prepare Environmental Protection or Dewatering Plan	LS		0	\$0.00	

Total: \$34,670.00

- (a) 1 NOI and 1 NOT for the whole project plus 1 Annual Report per number of project years are required per CGP
- (b) Number of inspections depends on number of project weeks and rain events for project duration
- (c) Excludes SWPPP implementation
- (d) Proposal is valid for 90 days
- (e) limitations may apply in providing inspections, in this case other options may be offered

If this proposal is satisfactory please initial applicable items, sign and email to Alex Ardani (alex@zilaco.com)

Authorized Client Rep:	
Signature:	Date:

For any question please contact:

Alex Ardani

Email: alex@zilaco.com Office: 323.455.5012 ext. 71

Direct: 323.455.5014 Fax: 323.455.5013



OBERTSON

ROCK . BASE MATERIALS . SAND READY MIX CONCRETE



ESCALATION AT 07/01/22: ADD \$10.00 PER YARD VALID UNTIL: 12/31/22.

1-800 -834-7557 April 29, 2022 1-800-232-3695 SUKUT CONSTRUCTION INC. Acct. #: 53512 Plant: 33 Dir#: ---Attn: RICK C/Qt. Mp Pg: Agg./Qt. E-mail: rwelshiemer@sukut.com Yards: 19,900 Dodge #: NDF Prevailing Wage: N Re: MIRAMAR LG ORGANICS PROCESSING FACILITY D-B, MIRAMAR CONCRETE MIX DESIGN DESCRIPTION PRICE PER YARD SD62131 4000 1" .50WC \$ 115.29 52651 5000 1".40WC \$ 118.04 SD658CME 658-CME-4500P \$ 120.36 SD660B32 660-CW-4000 \$ 115.38

** Cement Powder & Fly-ash are currently experiencing a shortage and may experience supply interruptions. These interruptions could make this material unavailable for use in concrete at certain times. Please contact your sales representative should you have any questions.

The purchaser shall ensure that Robertson's is provided copies of all reports of tests performed on concrete samples taken to determine compliance with specification requirements. please e-mail copies to qc@rrmca.com. Costs for testing, inspection and/or mix designs, when required, are the responsibility of the buyer.

CUSTOMER MUST NOTIFY ROBERTSON'S OF ANY JOB REQUIRING PREVAILING WAGES ADVERTISED ON OR AFTER JULY 1, 2016, IN ACCORDANCE WITH AB219, JOBS WITH 200 YARDS OR MORE WILL BE BILLED A \$2,500.00 ONE TIME FEE PER CONTRACT AND AN ADDITIONAL \$19.50 PER YARD PREMIUM. JOBS WITH LESS THAN 200 YARDS WILL BE BILLED AN ADDITIONAL \$28.50 PER YARD PREMIUM.

ROBERTSON'S DIR #: 1000039563

WHEN PLACING ORDERS, PLEASE USE MIX I.D. NUMBERS AS QUOTED

The above prices are net; discounts are included.

Environmental Fee: All concrete loads will be charged \$30.00 per load regardless of amount delivered.

Energy Surcharge: All concrete loads will be charged \$30.00 per load regardless of amount delivered.

THE ABOVE PRICES INCLUDE ALL INCREASES AND ARE VALID UNTIL: 06/30/22

Sales Tax: Sales Tax not included, please add appropriate sales tax to above prices.

Standing Time: Four minutes per yard are allowed for each individual load for waiting and unloading at the jobsite. Additional time will be charged at a rate of \$1.25 per minute. Short Loads: One short load will be allowed daily per order after ONE full load has been delivered. Please refer to our current short load table for all other short load fees.

Saturday Rates: Add \$8.00 per cubic yard. Sunday Rates: Add \$15.00 per cubic yard with an additional \$2,000.00 plant opening fee & \$75.00 per hour truck time with a 6 hour minimum. Plant Opening Fee: A fee will be charged to any orders to be delivered beyond the normal business hours of 5:00 a.m. to 3:00 p.m., Monday through Friday. Please call for off-hour and holiday rates, Night pours: A 13-hour notice is required for all pours scheduled between 8pm - Midnight.

Delivery: There is no guarantee as to time or rate of delivery and there is no liability on the part of the seller for costs accrued by buyer due to delays.

Delivery Restrictions: Due to the distance from the plant to jobsite, certain areas are subject to delivery restrictions. Please call office for further details

Cancellations: Must be done within 24-hours from scheduled delivery. Orders not cancelled with in guidelines may be subject to a \$2,000.00 fee.

Temperature: Prices above do not include cost associated with chilling or heating to meet project temperature specifications.

Chilled / Heated water are subject to availability & Ice requires a 72-hour notice.

Plans & Specs: The mixes quoted are not warranted to be acceptable for any particular use, purpose or application, nor are they warranted to be acceptable for use in any particular environment or in conjunction with any particular soil conditions. Buyer's selection of the quoted mix, unless otherwise acknowledged in writing by Robertson's, will be deemed to be without the advice, consultation, recommendation or suggestion of Robertson's and Buyer assumes all risks related to the selection of the quoted product for any particular application. The purchaser shall ensure that the manufacturer is provided copies of all reports of tests performed on concrete samples taken to determine compliance with specification requirements.

ROBERTSON'S IS NOT A TESTING LAB. BASIC TRIAL BATCH IF NEEDED PER MIX APPROXIMATE COST IS \$2,000.00. ROBERTSON'S IS 109 CERTIFIED NOT NRMCA.

** REMINDER: WE HAVE RECYCLED CONCRETE BASE & FILL SAND AT COMPETITIVE PRICING. **

ALL MATERIALS & TRUCKING ARE SUBJECT TO AVAILABILITY

This quote will supersede any master hauling agreements, purchase agreements, purchase orders, labor agreements and/or any written binding contracts. This proposal is subject to a signed acceptance from the buyer within 20 days, after which time it will be void except at the option of the seller. Should you have any questions regarding our proposal, please feel free to contact us at (800) 834 - 7557. We look forward to the opportunity of working with you.

Thank you for your consideration,

Andy Enriquez Sales Department AE/rs

Buyer Acceptance:	Title:	Date:	

Ariel Vaca

From:

Rick Welshiemer

Sent:

Friday, April 29, 2022 10:37 AM

To:

Ariel Vaca

Subject:

FW: [External] Quote

Cemex there are in B2W but not low.

RW

From: Rodrigo Zuazua Elizondo <rodrigo.zuazua@cemex.com>

Sent: Friday, April 29, 2022 10:19 AM

To: Rick Welshiemer < rwelshiemer@sukut.com>

Cc: Nalycia M Schwartz < nalyciam.schwartz@cemex.com>

Subject: RE: [External] Quote

Hi Rick,

Here is the quote. Nalycia is going to be your contact going forward for quotes and I am copying her here. She is off today so I helped on this one.

\$117 Concrete 4,000 Psi 8.80 CY

\$128 Concrete 5,000 Psi 225.00 CY

\$122 Concrete 658-CME-4500 19,629,00 CY

\$122 Concrete 660-C-4000 55.65 CY

\$100 Fees per load (Fuel and Environmental)

\$300 AB-219

Price increase of \$12 on 7/1/2022 good through 1/31/2023 then up \$5 on 2/1/2023

Thank you!



Rodrigo Zuazua Account Manager Southern California Ready Mix - USA (909) 208-9024 131 Vultee Street Shafter, CA 93263

rodrigo.zuazua@cemex.com

www.cemexusa.com

Order Concrete: 1 (800) 801-7625



Order, Track, Manage, Pay, Go.

(855) 25-CEMEX cemexusa.com/go



From: Rick Welshiemer < rwelshiemer@sukut.com>

Sent: Friday, April 29, 2022 10:01 AM

To: Rodrigo Zuazua Elizondo < rodrigo.zuazua@cemex.com>

Subject: FW: Quote

CAUTION: External Email | PRECAUCIÓN: Correo electrónico externo | VORSICHT: Externe E-Mail | ATTENTION: Courriel externe

Need a quote the job bids at noon

From: Rick Welshiemer

Sent: Thursday, April 28, 2022 2:27 PM

To: Rodrigo Zuazua Elizondo < rodrigo.zuazua@cemex.com >

Subject: FW: Quote

Rodrigo

Looking for an quote for the following bid items.

Job location Miramar Landfill 5180 Convoy St. San Diego Ca. 92111

Thanks,

Rick Welshiemer
Senior Estimator, Project Manager, Superintendent
Sukut Construction Inc.
4010 W Chandler Ave
Santa Ana Ca 92704
Direct Line: 714-460-1074

Cell: 657-218-8672 Fax: 714-957-2074

Email: rwelshiemer@sukut.com estimating@sukut.com



CONFIDENTIALITY: The information contained in this transmission may contain privileged and confidential information. It is intended only for the use of the person(s) named above. If you are not the intended recipient, you are hereby notified that any review, dissemination, distribution or duplication of this communication, and the information contained in it, is strictly prohibited. If you are not the intended recipient, please contact the sender and immediately destroy all copies of the original message.

Charles Malis

From: Charles Adams <ca@semperfuel.com>
Sent: Friday, April 29, 2022 10:29 AM

To: Charles Malis

Subject: [External] Red Dye - Rough Pricing Per Gallon - Wet Hose

Hello Charles,

As a placeholder for your bid - let's go with \$6.25 per gallon. It is simply a placeholder given global turbulence in the energy market but will suffice for your purposes.

Best,

Charlie Adams, Owner
Semper Fuel LLC
T: 310 600 0330
ca@semperfuel.com
3130 Avenida de Portugal Unit 201
San Diego CA 92106

Veteran-owned, Small Business Certified

This email has been scanned for spam and viruses by Proofpoint Essentials. Click here to report this email as spam.

6/23/2020 Supplier Profile

Printed on: 6/23/2020 2:10:48 PM

To verify most current certification status go to: https://www.caleprocure.ca.gov



Office of Small Business & DVBE Services

Certification ID: 1445180

Legal Business Name: SEMPER FUEL LLC

Doing Business As (DBA) Name 1:

SEMPER FUEL

Doing Business As (DBA) Name 2:

Email Address:

ccaquatro@yahoo.com

Business Web Page:

Business Phone Number:

310/600-0330

Business Fax Number:

Address:

3703 Haines Street

Н

CA

San Diego

CA 92109

Business Types:

Non-Manufacturer

Certification Type

Status

From

To

SB(Micro)

Approved

04/22/2020

04/30/2022

Stay informed! KEEP YOUR CERTIFICATION PROFILE UPDATED! -LOG IN at CaleProcure.CA.GOV

> Questions? Email: OSDSHELP@DGS.CA.GOV Call OSDS Main Number: 916-375-4940 707 3rd Street, 1-400, West Sacramento, CA 95605



8936 Dismal River Rd Oakwood,VA 24631 Phone (276) 991-4450 Fax (276) 259-5252

www.westriverconveyors.com

Quote Date:
Ouote #:

4/26/2022 R66936V1

Name/Address
Attn: Tom Wadden
SUKUT CONSTRUCTION
4010 West Chandler Avenue
Santa Ana, California 92704

Ship To

TBD

Estimated Delivery: APPROX. 18-20 WEEKS ARO SIGNED APPROVAL DRAWINGS; PLEASE ALLOW 2 WEEKS FOR APPROVAL

DRAWINGS

Prepared By	Email	Phone	Fax	
Pete Savage	psavage@westriverconveyors.com	(276) 991-4450	(276) 259-5252	

Quote Remarks

EXW FACTORY

BUDGETARY PRICING ONLY

PAYMENT TERMS: TBD

EXCLUSIONS: INSTALLATION, CONCRETE FOUNDATIONS, ELECTRICAL (EXCEPT MOTORS & STARTERS), HORNS, LIGHTS

ALL PRICING AND LEAD TIMES ARE SUBJECT TO IMMEDIATE AVAILABILITY AND ESCALATION INCLUDING ALL MATERIALS, SUPPLIES, CONSUMABLES, AND EQUIPMENT BEYOND OUR CONTROL

Line Items

Item Name	Description	Quantity	Unit Price	Total Price
SURFACE CONVEYOR	New 24" BW Overland Conveyor x 1,500 LF Designed to convey compost 65 lbs/ft3 @ 450FPM and 150TPH Steelwork to consist of complete tail to head truss and trestles @ approx. 40'-0" spans, conveyor covers, catwalk (1 side) - approximately 75 tons Motor - 50HP Sheaves, v-belts Reducer, bushing, TA, MM Drive Pulley - 20x30 Snub Pulley - 12x30 Bend Pulley - 16x30 TU Pulley - 16x30 Tu Pulley - 16x30 Bend Pulley - 16x30 Impact Idlers, CEMA D, 5" o.d., 35 degrees Top Idlers, CEMA C, 5" o.d., 35 degrees Return Idlersx, CEMA C, 5" o.d., flat Belt - 3 ply 330PIW Soft Starter, 460vac, NEMA 4X enclosure E-stops, zero speed switch, belt run off switches	1.00000	\$1,141,691.00	\$1,141,691.00
	TU tower & sheaves 3/4 galvanized conveyor covers Catwalk, single side			
	Catwark, single side			

Standard QDE paint Engineering & assembly drawings		
	Total Items	\$1,141,691.00
	Order Total	\$1,141,691.00
Approved by (Customer):	Date:	-
Approved by (Salesman):	Date:	-



*******	******	*****	*****	*****	****	******	*****	****** PAGE: 1
* DMO-4442B	*					*		PRINT DATE: 04/02/22 *
*	*		OUTRE	ACH		*		PRINT TIME: 12:34:24 *
* VVVSBE	*	RE	CORD I	ISTING		*		*
********	******	******	*****	*****	*****	******	*******	******
DESCRIPTION: SUKUT CONST ORGA	NIC PROCESSING FAC							
COMPANY NAME	CONTACT	PHONE#	ETH V		ZIP	FAX#	EMAIL	ENTITY#
American Council of Engineerin	Trudi Lim	619-334-3083		8621	92159	619-593-9989	admin@acec-ca-sd.org	1591483
Asian Business Asso-San Diego	Wendy Urushima	858-277-2822		8611	92111	858-277-2622	wendy@abasd.org	100566
Associated General Contractors	Lisa Loveloce	858-558-7444		8611-14	92121	858-558-8444	PlanRoom@agcsd.org	454158
Associated Subcontractors Alli	Nancy Grimes	619-825-9552		8611-04	92160	619-825-9558	nancy@sandiegoasa.org	493128
Black Contractors Association	Mr. Abdul-Rahi Hamee	619-263-9791	В	8611-18	92114	619-263-6865	NationalBCA@aol.com	1698261
Disabled Businesspersons Asso	Mr. Urban Miyares	619-594-8805	Ι	5111	92120	619-594-4208	Info@disabledbusiness.com	117005
Elite SDVOB	Bob Mulz	619-284-9922		8611-17	92105	619-284-4567	chairman@elitesdvob.org	1998786
Indian Voices	Rose Davis	619-534-2435		2741	92113	619-512-4534	blackindianrose@gmail.com	1591484
Laborers' International Union	Valentine Macedo	619-263-6661		8631	92105	619-263-6660	info@local89.org	1952302
San Diego Contracting Opportun	Brett Housholder	619-482-6391		9111	91950	619-482-6391	sdsbdc@swccd.edu	344765
San Diego Urban League	Al Abdallah	619-266-6244		8641	92105	619-528-0054	Al@sdul.org	1952303
SANDAG	Brittany Yamagata	619-699-6990		8699	92101	619-699-6990	brittany.yamagata@sandag.or	g 424498
12 SOLICITATIONS								

12 SOLICITATIONS

D2. Listing of San Diego Organizations Offering Assistance (ALL contacted)



Outreach Resource List

American Council of Engineering Companies – CA (S.D. Chapter)

Contact: Trudi Lim, President

P.O. Box 191345

San Diego, CA 92159 - 1345

Tel 619-334-3083 Fax (619) 593-9989

Email: admin@acec-ca-sd.org

American Subcontractors Assn.

Contact: Nancy Grimes P.O. Box 600723
San Diego, CA 92160
Tel. 619-825-9552
Fax 619-825-9558
nancy@sandiegoasa.org

Asian Business Association

Contact: Wendy Urushima-Conn, Pres.& CEO 7675 Dagget Street

San Diego, CA 92111 Tel. (858) 277-2822 Fax 858-277-2622

www.abasd.org

Email: wendy@abasd.org

Associated General Contractors of America (AGC) Plan Room - San Diego

Contact: Lisa Loveloce 6212 Ferris Square

San Diego, CA 92121

Tel. (858) 558-7444 ext. 115

Fax (858) 558-8444

Resource for State, Federal & Local Guidelines for

Building Industry

Email: PlanRoom@aqcsd.org / Lisa@aqcsd.org

Black Contractors Association, Inc. (San Diego Chapter)

Contact: Abdul-Rahim Hameed (President, CEO)

Janiece Hameed (Executive Director)

6125 Imperial Avenue San Diego, CA 92114 Tel. (619) 263-9791 Fax (619) 263-6865

www.bcasd.org

Email: NationalBCA@aol.com

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Disabled Businesspersons Association

Contact: Urban Miyares

C/O SDSU – Inter Work Institute 6367 Alvarado Court, Suite 350

San Diego, CA 92120 Tel. (619) 594-8805 Fax (619) 594-4208

Email: Info@disabledbusiness.com

Elite SDVOB

Contact: Bob Mulz 3829 University Ave San Diego, CA 92105 Tel (619) 284-9922 Fax (619) 284 4567

Email: chairman@elitesdvob.org

www.elitesdvob.org

Indian Voices

Contact: Rose Davis 111 S. 35th Street San Diego, CA 92113 Tel (619) 534-2435

Email: blackindianrose@gmail.com

www.indianvoices.net

Laborers' International Union Of North America, Local No. 89

Contact: Valentine Macedo

4161 Home Avenue San Diego, CA 92105 Tel. (619) 263-6661 Fax (619) 263-6660 Email: info@local89.org

San Diego Contracting Opportunities Center (SDCOC) / San Diego PTAC

880 National City Blvd. Suite 7100 National City, CA 91950 www.ptac-sandiego.org http://ptac-sandiego.org/request-for-subs/



Outreach Resource List

SANDAG

Contact: Brittany Yamagata 401 B Street, Suite 800 San Diego, CA 92101 Tel. (619) 699-6990 Fax (619) 699-6990

Email: brittany.yamagata@sandag.org

San Diego Urban League

Contact: Al Abdallah 4305 University Ave Ste 360 San Diego, CA 92105 Tel (619) 266-6244 Fax (619)528-0054 Email: Al@sdul.org

www.sdul.org

D3-6 Letter & ITB



March 29, 2022

ATTN: Business Organizations/Assistance Centers

RE: Organics Processing Facility, San Diego, CA

RFP No. K-22-2049-DB1-3-C

SLBE GOAL 5%

ELBE GOAL 10.3%

BID DATE April 12, 2022 at 12:00 p.m.

The Small Business Exchange, Inc., on behalf of **Sukut Construction**, **LLC** is requesting assistance in identifying businesses who can participate on the referenced project.

We are requesting that you post the enclosed information, distribute it and/or refer businesses who might be interested. Any additional information can be forwarded directly to **Tom Wadden** whose Contact information appears in the invitation.

Thank You Small Business Exchange, Inc. Outreach Services Department Encl

File #4442B



Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser,
Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric,
Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe,
Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt,
Steel Structures, Temporary Rail (Type K), Welding Contractor

SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

BID DATE: April 12, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC 4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003

Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC An Equal Opportunity Employer

PLEASE EMAIL YOUR RESPONSE TO SMALL BUSINESS EXCHANGE AT RVIVANCO@SBEINC.COM

COMPANY NAME: PHONE/FAX:

YES, we will be bidding SLBE ELBE

NO, we will not be bidding

Areas of Expertise

Contractor Licence: DIR Registration #

To opt out of receiving further faxes, call 800-800-8534 or (415) 778-6250 or email sbe@sbeinc.com



	Α	В	С	D	Е	F
1	DATE	FAX TO	COMPANY NAME	SUBJECT	STATUS	REF#
2	3/29/22 16:19	18585588444	Asian Business Asso-San Diego	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442B
3	3/29/22 16:19	16198259558	Associated Subcontractors Alli	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442B
4	3/29/22 16:20	16192636865	Black Contractors Association	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442B
5	3/29/22 16:19	16195280054	San Diego Urban League	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442B
6	3/29/22 16:20	16192844567	Elite SDVOB	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442B
7	3/29/22 16:19	16192636660	Laborers' International Union	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442B
8	3/29/22 16:20	18582772622	Asian Business Asso-San Diego	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Sent	Sukut DMO #4442B
9	3/29/22 16:19	16195939989	American Council of Engineerin	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442B
10	3/29/22 16:19	16194826391	San Diego Contracting Opportun	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442B
11	3/29/22 16:19	16195944208	Disabled Businesspersons Asso	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442B
12	3/29/22 16:19	16196996990	SANDAG	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442B
13	3/29/22 16:19	16195124534	Indian Voices	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Failed	Sukut DMO #4442B

D6. Eblast Detail Report – Business Centers & Organizations

	А	В	С	D	E	F	G	Н
1	Campaign	Company Name	Email	Opened	Link Clicked	Unsubscribe	Bounced	Date Sent
2	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	VIDEO ELECTRONICS	videoelex@compuserve.com	No	No	No		3/29/22 18:46
3	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	South San Diego SBDC	sdsbdc@swccd.edu	No	No	No		3/29/22 18:46
4	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	San Diego Regional Economic	rm@sandiegobusiness.org	No	No	No		3/29/22 18:46
5	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Associated General Contractors	planroom@agcsd.org	No	No	No		3/29/22 18:46
6	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Black Contractors Association	nATIONALbca@AOL.COM	No	No	No		3/29/22 18:46
7	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	San Diego North Economic Devel	info@sdnedc.org	No	No	No	Yes	3/29/22 18:46
8	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Laborers' International Union	info@local89.org	No	No	No		3/29/22 18:46
9	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	South County Economic Developm	efrain@southcountyedc.com	No	No	No		3/29/22 18:46
10	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	East County Economic Developme	danielle.sparks@eastcountyedc.org	No	No	No		3/29/22 18:46
11	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Elite SDVOB	chairman@elitesdvob.org	No	No	No		3/29/22 18:46
12	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	Indian Voices	blackindianrose@gmail.com	No	No	No		3/29/22 18:46
13	Business Opportunities - ITB from Sukut Construction, LLC - Bid Date: April 12, 2022 - Organics Processing Facility, San Diego, CA	American Council of Engineerin	admin@acec-ca-sd.org	No	No	No		3/29/22 18:46

D7. Agencies Follow-Up Call Results

************** *	**************	SINESS EXCHAN	GE, INC. ***************	*************** PAGE: 1
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* RVIVANCO	•	CRIPT RESULTS		↑
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**************************************				*********
TYPE: SCR TOPIC: dmo-4442b COMPANY NAME / CONTACT	SCRIPT: AGNCY2 DESC PHONE / CALLER		# RESP & DESCRIPTIO	COMMENT
American Council of Engineerin Trudi Lim	619-334-3083 RVIVANCO	03/29/2022 16:54:46	1-LVM Lft Msg on VM	
Asian Business Asso-San Diego Mr. Jason Paguio	858-277-2822 RVIVANCO	03/29/2022 17:08:11	1-LVM Lft Msg on VM	
Associated General Contractors Eddie Sprecco	858-558-7444 RVIVANCO	03/29/2022 17:10:26	1-RY Yes, received invitation 2-PY Yes, will post	1
Associated Subcontractors Alli Nancy Grimes	619-825-9552 RVIVANCO		1-LVM Lft Msg on VM	
Black Contractors Association Mr. Abdul-Rahi Hameed	619-263-9791 RVIVANCO		1-LVM Lft Msg on VM	
Disabled Businesspersons Asso Mr. Urban Miyares	619-594-8805 RVIVANCO		1-DIS # Disconnect; no new #	#Not In Service
East County Economic Developme Ms. Danielle Sparks	619-258-3670 RVIVANCO		1-LVM Lft Msg on VM	For Danielle
Elite SDVOB Bob Mulz	619-284-9922 RVIVANCO		1-CNP Cannot Process	Busy signal
Indian Voices Rose Davis	619-534-2435 RVIVANCO		1-RY Yes, received invitation 2-PY Yes, will post	n Per Rose
Laborers' International Union Valentine Macedo	619-263-6661 RVIVANCO	03/29/2022 17:29:15	, ,	
San Diego Contracting Opportun	619-482-6391	03/29/2022	1-RU Not sure if received	
Brett Housholder	RVIVANCO	17:33:50	2-NP No posting	Only Member Posts
San Diego North Economic Devel	760-510-5919 RVIVANCO	03/29/2022 17:48:30	1-LVM Lft Msg on VM	•
San Diego Regional Economic Ms. Rachel Malz	619-234-8484 RVIVANCO	03/29/2022 17:30:03	1-RU Not sure if received 2-NP No posting	Spoke to Kathy Recommended CoC
San Diego Urban League Kea Hagan	619-266-6244 RVIVANCO	03/29/2022 17:14:46		
South County Economic Developm Mr. Efrain Ibarra	619-424-5143 RVIVANCO	03/29/2022 17:50:10	1-LVM Lft Msg on VM	For Efrain
SANDAG Brittany Yamagata	619-699-6990 RVIVANCO	03/29/2022 17:46:06	1-LVM Lft Msg on VM	
VIDEO ELECTRONICS Mr. Bob Mulz 17 RECORDS LISTED	619-284-9922 RVIVANCO	03/29/2022 17:52:59	1-LVM Lft Msg on VM	

E. SBA SubNet on 03-29-2022

SubNet

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Welcome Rosalie Vivanco

Given the ongoing Presidential declared National Emergency, the U.S. Small Business Administration (SBA) is extending the time for the filing of Individual Subcontracting Reports (ISR) and Summary Subcontracting Reports (SSR) to November 30, 2020, and December 30, 2020, respectively.

The purpose of Subnet is to post/identify subcontracting opportunities (solicitations/NSS/events). Marketing material posted will be removed by SBA and will result in account closure.

Business Information All Solicitations/NSS | Solicitations/NSS Details





Business Name: SUKUT Construction

Type of Business Being Solicited

Women-Owned Small Business, SBA Certified HUBZone Small Business (HUBZone SB), Small Disadvantaged Business (SDB), Women-Owned Small Business under the SBA Women-Owned Small Business Program

NAICS Code

237990 Other Heavy and Civil Engineering Construction

Additional NAICS Code

N/A

Brief Solicitation Description

Organics Processing Facility, San Diego,

Files Attached:

There are no files attached to this Solicitation.

Solicitation POC

First Name: Tom Last Name: Wadden Phone: 714-540-5351

Ext:

Fax: 714-545-2003

Email: estimating@sukut.com

Place of Performance

CA:San Diego

Performance Start Date

04/29/2022

Solicitation Closing Date

04/29/2022 - 12:00 PM

Time Zone: PDT

Is this Solicitation inappropriate? (Click here if this posting contains inappropriate or potentially offensive content. If checked, the Solicitation will be reviewed and removed if necessary)

Solicitation: SOL-4442

F. Asian Inc. (MBDC Manager) on 03-29-2022



Ads > Request for Bids

SUKUT CONSTRUCTION

See all ads from Valerie Voorhies

Contract Description: Organics Processing Facility, San Diego, CA RFP No. K-

22-2049-DB1-3-C

SLBE GOAL 5%

ELBE GOAL 10.3%

Sukut Construction is requesting quotes from City of San Diego certified and qualified SLBE and ELBE Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser, Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric, Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe, Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt, Steel Structures, Temporary Rail (Type K), Welding Contractor SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical &

Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier **Bid Address**: 4010 W. Chandler Avenue, Santa Ana, CA

Contract Duration: 500 working days

Information

Estimator Name: Tom Wadden

Date of Bid Proposal Submission: 04-29-2022

Bid Due Date: 04-29-2022

Contact

Contact Name: ARIEL VACA Email: estimating@sukut.com

Fax: 714-545-2003

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District (Agency): SAN DIEGO Request Bids From:: see description

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Welcome to Request for Bids

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1167 Mission Street 4th Floor





PROOF OF PUBLICATION

(2015.5 C.C.P)

STATE OF CALIFORNIA, SS County of San Francisco

I am a citizen of the United States and a resident of the County aforesaid. I am over the age of eighteen years, and not a party to or interested in the above matter. I am the principal clerk of the printer and publisher of The Small Business Exchange, Inc., a newspaper of general circulation printed and published weekly in the City and County of San Francisco, State of California on the date of January 29, 1988, that the notice of which the annexed is a printed copy (set in type not smaller than non pareil), has been published in the **Small Business Exchange** on the following date(s), to wit:

(RUNS FOR ONE WEEK)

03-31-2022 to 04-06-2022 04-07-2022 to 04-13-2022 04-14-2022 to 04-20-2022 04-21-2022 to 04-27-2022

I declare under penalty of perjury that the foregoing is true and correct. Executed on <u>04-21-2022</u> at San Francisco, California.

Signature)

Corporate Office

1160 Battery Street East, Suites #100 • San Francisco, CA 94111 Phone (415) 778-6250 • Toll Free (800) 800-8534

MARCH 31, 2022 - APRIL 06, 2022 SMALL BUSINESS EXCHANGE 7



CALIFORNIA SUB-BID REQUEST ADS



Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser, Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric, Paving Asphalt,
Paving Asphalt Concrete Dike, Plastic Pipe, Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt, Steel Structures, Temporary Rail (Type K), Welding Contractor SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C **SLBE GOAL 5% ELBE GOAL 10.3%**

BID DATE April 12, 2022 at 12:00 p.m. All Ouotes Due Prior

Sukut Construction, LLC

4010 W. Chandler Avenue, Santa Ana, CA 92704 **Contact: Tom Wadden**

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC An Equal Opportunity Employer

GRANITE

GRANITE CONSTRUCTION COMPANY

Is requesting DBE quotes for the following Project: Needles Highway – Segment 1B
Project Owner: San Bernardino County Department of Public Works
Bid Date: 04/14/2022 @ 1:00 PM
Point of Contact: Joe Richardson • Phone: 760-391-6247 • Email: joe.richardson@gcinc.com

Please Email Quotes to: DCR.estimating@gcinc.com • Please Fax Quotes to: (760) 775-8229

General work description: Pulverizing asphalt concrete, removing asphalt concrete, cold plane existing asphalt concrete, constructing asphalt concrete over compacted pulverized asphalt concrete. Constructing asphalt concrete cut off walls. Installing tortoise fencing, painting traffic stripe and pavement markings and doing other work appurtenant thereto.

Plans and specifications can be accessed at no cost at:

https://www.dropbox.com/sh/8abytk61rr564ij/AABHRQb6MlpYo1yGFxwQ3i5za?dl=0y

Additionally, plans, specifications, and addenda can be viewed in the Files/Plans room in Smart Bid or at our office located at: 38000 Monroe Street, Indio, CA 92203. Please call to make an appointment. at our office located at: 38000 Monroe Street, Indio, CA 92203. Please call to make an appointment. Granite Construction Company (Granite) is requesting quotes from qualified Subcontractors and Suppliers including Certified DBE firms for the following items of work, including but not limited to: C0624 Petroleum, Oil, Lubricants Supplier, C0639 Asphalt Supplier, C0680 Fencing Supplier, C0685 Pavement Markers Supplier, C0800 Traffic Striping, Marking And Traffic Control Materials Supplier, C1200 Construction Area Signs, C1201 Traffic Control System, C1211 Traffic Flaggers, C1212 Pilot Car Services, C1531 Plane Asphalt Concrete, C1910 Grading, C2201 Finishing Roadway, C3901 Asphalt Concrete, C3910 Paving Asphalt (Asphalt Concrete), C3990 Recycle, Reclaim Asphalt Concrete, C5620 Roadside Sign, C8000 Fencing, C8001 Temporary Fencing, C8405 Thermoplastic Traffic Striping & Marking, C8406 Painted Traffic Striping & Marking, C8407 Remove Pavement Marking & Traffic Stripes, C8501 Pavement Marker, C9601 Super Dump Truck 4-Axle, C9602 Bottom Dump Trucking, C9603 Transfer Dump Truck, C9604 Super 10 Dump Truck, C9605 Flat Bed Trucking, C9606 Water Truck, C9607 End Dump Truck, C9608 Asphalt Oil Tankers, C9609 Street Sweeping Truck, C9607 Truck Rental, C9771 Truck Broker, C9774 Trucker, C9907 Construction Equipment Rental

Granite is an Equal Opportunity Employer and will work with any interested subcontractor to identify opportunities to break items into any economically feasible packages. We welcome quotes from qualified Minority Business Enterprise (MBE), Women Business Enterprises (WBE), Small Business Enterprise (MBE), Women Business Enterprises (WBE), Small Business (WBE), terprises (SBE), Disadvantaged Business Enterprises (DBE) and other entities defined as socially and/or economically disadvantaged.

Assistance in obtaining bonding, insurance, equipment, materials and/or supplies is available upon request. Additionally, please contact us if you require any technical assistance. Quotations must be valid for same duration as specified by Owner for contract award. Granite intends to work cooperatively with all qualified firms seeking work on this project.

This project has a 14% DBE goal. In addition to request for participation from Certified WBE/MBE subcontractors and suppliers, Granite requests Non-DBE subcontractors to provide lower-tier DBE subcontractor and/or supplier participation. Bidders are encouraged to indicate lower-tier DBE participation, as it will be evaluated as part of their quote.

Please include your Contractor License Number and DIR Registration Number on your quote

Granite Construction Company is signatory to Operating Engineers, Laborers, Cement Masons Teamsters and Carpenters unions. Granite may require 100% performance and payment bonds for the full amount of subcontract price. Granite Construction will assist with bonding costs for subcontractors. Additionally, The US Small Business Administration may also assist you in obtaining bonding, for more information please visit them at http://www.sba.gov/content/contractors#. Subcontractors must possess a current contractor's license, DIR number, insurance, and worker's compensation coverage meeting Granite's requirements. All quotes are subject to the terms of Granite Construction Company's applicable standard form agreement which is available through the following link: https://www.dropbox.com/sh/93iswduu5iw13t6/AACaZvS8j7xY7Ja0IH-dL0J-a?dl=0



11555 Dublin Boulevard • P.O. Box 2909 Dublin, CA 94568-2909 (925) 829-9220 / FAX (925) 803-4263 Website: www.desilvagates.com **ESTIMATOR: JACK SHEWMAKER** An Equal Opportunity/ Affirmative Action Employer

Golden Gate Constructors (GGC) is preparing a bid as a Prime Contractor for the project listed below:

SAN FRANCISCO INTERNATIONAL AIRPORT **RUNWAY 1L-19R REHABILITATION** Contract No. 8795.61 Small Business Enterprise (SBE) Goal: 6.4%

Owner: SAN FRANCISCO AIRPORT COMMISSION 676 North McDonnell Road San Francisco, CA 94128

BID DATE: APRIL 7th, 2022 @ 10:00AM

GGC is soliciting quotations from certified local Small Business Enterprises for the following types of work and supplies/materials including but not limited to:

Cold Plane, Electrical, Emulsion supplier, Lime Treatment, Pavement Grooving, Saw cutting, Slurry Seal, Striping, Survey/Staking, SWPPP Prep/ Water Pollution Control Plan Prepare, Temporary Erosion Control, Testing, Trucking, Water Trucks, Street Sweeping, Class 2 Aggregate Base Material, Class 4 Aggregate Base Material, Hot Mix Asphalt (Type B) Material.

Plans and specifications may be reviewed at our offices located at 11555 Dublin Boulevard, Dublin, CA or 3855 N Freeway Blvd Suite 100 Sacramento, CA 95834, or at your local Builders Exchange, or reviewed and downloaded from our dropbox: https://www.dropbox.com/sh/o346g50yd20svsj/ AACW8r8jxFPWs-n6u5DQgeoga?dl=0

Or from the Owner's site www.sfoconstruction.com or by contacting San Francisco Airport Commission at 676 North McDonnell Road San Francisco, CA (650-466-0290), Contract Manager Daniel Lee at (650) 821-7767 and Daniel.lee@flysfo.com, Contract Administrator Hirokazu Sato at (650) 821-3520 and Hirokazu.Sato@flysfo.com.

Fax your bid to (925) 803-4263 or email to dgcestimating@desilvagates.com to the attention of Estimator Jack Shewmaker. If you have guestions for the Estimator, call at (925) 829-9220. When submitting any public works bid please include your DUNS number and DIR number. For questions regarding registration for DIR use the link at: www.dir.ca.gov/ Public-Works/PublicWorks.html

If you need SBE support services and assistance in obtaining bonding, lines of credit, insurance, necessary equipment, materials and/or supplies or related assistance or services, for this project call the Estimator at (925) 829-9220, or contact your local Small Business Development Center Network (http://californiasbdc.org) or contact the California Southwest Transportation Resource Center (www. $transportation.gov/osdbu/SBTRCs). \ GGC \ is \ willing \ to$ breakout portions of work to increase the expectation of meeting the SBE goal.

At our discretion, 100% Payment and 100% Performance bonds may be required as a subcontract condition. This will be a PREVAIL-ING WAGE JOB. DGC is an Equal Opportunity/ Affirmative Action Employer.





O.C. Jones & Sons, Inc. 1520 Fourth Street • Berkeley, CA 94710 Phone: 510-526-3424 • FAX: 510-526-0990 **Contact:** Jason Martin and Donat Galicz

REQUEST FOR DBE SUBCONTRACTORS AND SUPPLIERS FOR

Stockton Metropolitan Airport **Cargo Ramp Expansion Project** San Joaquin County Bid #SCK-2201

BID DATE: April 13, 2022 @ 2:00 PM

We are soliciting quotes for (including but not limited to): Trucking, Temporary and Permanent Hydroseed and Erosion Control Measures, QC/QA Testing, Inlet Protection, Safety & Security, Clearing & Grubbing, Lime Treated Sub-Grade, Lime, Prime Coat, Tack Coat, Marking, Irrigation, Aircraft Rated Inlet, Aircraft Rated Manhole, Rubble Rip Rap with Geotextile Fabric, Sod, Topsoil, Bioretention Soil Media, Temporary Airfield Lighting, Electrical, Apron Light Pole, Sawcutting, Cold Mill, Fencing, Concrete Pavement, Survey, Storm Drain, and Construction Materials

and Construction Materials

Jason Martin (510-809-3432 jmartin@ocjones.com) and
Donat Galicz (510-809-3498 dgalicz@ocjones.com) are the
estimators on this project and are available to provide assistance or answer questions regarding the project scope
of work including bid requirements, break out of bid
items, plan or spec interpretation, bonding or insurance
requirements, and other bid assistance. Plans and specs
are available to review at our Berkeley office or can be sent
out via Building Connected. PDF format quotes should be
emailed to the estimator or faxed to 510-526-0990 prior
to 12:00 PM on the date of the bid. Quotes from DBE Subcontractors, Suppliers and Truckers are highly encouraged. contractors, Suppliers and Truckers are highly encouraged OCJ is willing to breakout any portion of work to encourage DBE participation. Subcontractors must possess a curage DBE participation. Subcontractors must possess a current DIR, Contractors License, and insurance and workers compensation coverage including waiver of subrogation. OCJ may require Performance and Payment bonds on subcontracts. OCJ will pay the bond premium up to 2% of the contract value. Please contact OCJ for any assistance required by your firm in obtaining bonding or insurance. The US Small Business Administration may also assist you in obtaining bonding - please see the following site for information: http://www.sba.gov/content/contractors. Visit the California Access to Capital Program Financing Solutions website for additional resources for your small business http://www.calbizfinance.org/cal_cert_biz_program. html. OCJ is available to help obtain necessary equipment, material and/or supplies. All subcontractors are required to execute OC Jones' standard subcontracts agreement, comply with all insurance requirements, and name OCJ as additional insured. Copies of our agreement and insurance requirements are available upon request. OCJ is a Union contractor, and we are signatory to the Operating Engineers, Laborers, Teamsters, and Carpenters. OCJ is an Equal Opportunity Employer. rent DIR. Contractors License, and insurance and workers

NBC Construction & Engineering INC.
as a "GENERAL CONTRACTOR"
is requesting proposal on "ALL TRADES" from all
subcontractors & suppliers,
including DVBE, LBE, DBE, SBE, MBE, WBE firms for
the following project:

PROJECT TITLE: MARSHALL ELEMENTARY SCHOOL
SITE IMPROVEMENTS • BID NO. : 12284
BID DATE & TIME: 4/7/2022 @ 11:00AM
PROJECT LOCATION:
1575 15th St, San Francisco CA 94103
Owner: San Francisco Unified School District
All Bidders are hereby notified that provisions of

All Bidders are hereby notified that provisions of the Labor Code of the State of California, regarding prevailing wages shall be applicable to the work per-formed under this contract. Pursuant to Labor Code Section 1773 the general prevailing wage rates have been determined by the Director of the

California Department of Industrial Relations and appear in the California and Federal Prevailing Wage

pear in the California and Federal Prevailing Wage Rates, which can be found at https://www.dir.ca.gov/OPRL/DPreWageDetermination.htm.

Future effective wage rates which have been predetermined and are on file with the CA DIR are referenced but not printed in such publication.

The Bid and Contract Documents are available at the location stated above during standard working hours (8:00AM-4:30PM) for a nonrefundable fee paid to ARC Document Solutions-Northern California. Bidder is responsible for shipping and handling fees. Plans are available for viewing at www.earc.com/location/sanfrancisco-hooper-street. Click on the Order from PlanWell/Public

Planroom "button" and search for project name and number. Or please contact NBC Construction & Engi-neering, Inc.

In addition, if any assistance is needed in obtaining in-surance, bonds, or lines of credits, please reach out to NBC Construction & Engineering, Inc. for information.

Please submit proposals to <u>estimatingnbcinc@gmail.com</u>.

If email is unavailable,
proposal can be faxed to 800-622-9144. For more information, please call Mike Schalchi at 925-322-7473.

APRIL 07, 2022 - APRIL 13, 2022 SMALL BUSINESS EXCHANGE 3



CALIFORNIA SUB-BID REQUEST ADS



Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser, Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric, Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe, Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt, Steel Structures, Temporary Rail (Type K), Welding Contractor

SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% FIRE GOAL 10.3%

REVISED BID DATE April 29, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC

4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC An Equal Opportunity Employer

AECOM

300 S. Grand Avenue, 8th Floor, Los Angeles, CA 90071 • T 1-213-593-8100

REQUEST FOR CBE SUBCONSULTANT INTEREST

AECOM is bidding on the following project as Prime Contractor:

Owner: Los Angeles County Public Works
Request for Proposal No. BRC0000284
FEDERAL ON-CALL ENVIRONMENTAL COMPLIANCE SERVICES FOR
TRANSPORTATION PLANNING AND PROGRAMS DIVISION
Proposal due date: Wednesday, April 27, 2022

AECOM is seeking qualifications from Community Business Enterprise (CBE) companies and Disadvantaged Business Enterprise (DBEs) for the following supporting services:

All subcontractor staff must have graduated from an accredited university with a major in urban and regional planning, environmental sciences, environmental management, environmental engineering, biological sciences, transportation planning, or other related major and have a minimum of 5 years' experience in a field described below:

- Regulatory permitting services, as necessitated by routine maintenance or construction projects;
- Environmental Permit Compliance Services, such as conducting pre-construction surveys/reports; conducting sensitive species protection/avoidance planning; environmental documentation, monitoring and reporting (e.g., air quality, biological, cultural, water quality, hiring tribal monitors) of construction activities; post-construction environmental documentation/monitoring/reporting;
- Preparation of technical environmental impact analysis and studies in the areas of traffic/transportation, air quality/greenhouse gas emissions, energy, biological resources, hydrology/water quality, cultural/paleontological/tribal resources, and noise and vibration;
- Preparation of CEQA/NEPA documentation; including conducting public outreach/ public meetings, prepare outreach materials and public participation plans, and handle logistics of community meetings;
- Experience in native habitat restoration, monitoring, and reporting, arborists and landscape managing, and landscaping with southern California native species.

Experience providing similar services on On-call Environmental Services for federally-funded projects for the Transportation Planning and Programs Division for the County of Los Angeles is preferred. This proposal is in alignment with the County of Los Angeles CBE Program requirements and certified CBEs and DBEs are encouraged to respond.

Interested businesses should email a brief overview of County of Los Angeles or similar experience, along with CBE and/or DBE documentation by **Friday, April 15, 2022** to Randi Clark at randi.clark@aecom.com.



Mesa Energy

14450 Doolittle Drive • San Leandro, CA 94577

City Hall Mechanical Replacement Project - Phase 2 Sourcing Event ID No.: 0000006153 City & County of San Francisco San Francisco Public Works Bid Date: 4/27/2022

Bid Documents: https://bsm.sfdpw.org/ContractAdmin/Login.aspx

Description: EMCOR Services Mesa Energy will be bidding on the above advertised project located at San Francisco City Hall. Subcontractor bids and quotes from CMD Certified LBE's S.F. Small & Micro-LBE's are needed for the following types of work:

- AE004 Structural Engineering
- AE006 Electrical Engineering
- AE012 Mechanical Engineering
- CN034 Electrical Contracting (C-10)
- CN001 Sheet Metal Contractors (C-43)
- CN029 Heating, Ventilation, Air Conditioning (C-20)
- CN031 General Building Contracting (B)
- CN035 Plumbing (C-36)
- CN005 Trucking and Hauling

Please Note: Mesa Energy Systems is requesting all quotes by <u>4:00PM</u> on or before <u>Wednesday, April 20, 2022</u>, in order for bids to be considered.

All questions should be directed to Jason Cox at 510.755.1105, or email icox@emcor.net.

Woodard & Curran, Inc. is requesting qualifications from Community Business Enterprises (CBE) to support the following as-needed contract pursuit:

Sub-Bids Requested from Qualified CBE Subcontractors & Suppliers
County of Los Angeles, Department of Public Works
On-Call Engineering and Program Management Support Services
RFP Number: BRC0000321

Location: Los Angeles County

Seeking the following trades:

- 1. Hydrogeologist for field services including overseeing well drilling, construction, and testing
- 2. Cost estimator for waterworks and well drilling projects

Woodard & Curran, Inc. 888 South Figueroa Street, Suite 1700 Los Angeles, CA 90017 Phone: 213.223.9478 Contact: Brenda Ponton

Email: bponton@woodardcurran.com

Qualified interested firms should contact Brenda Ponton at bponton@woodardcurran.com or 213.223.9478 by noon on April 17, 2022. Emails should identify specific service areas of interest and provide examples of relevant qualifications. A copy of the RFP is available upon request.

TAFT ELECTRIC COMPANY 1694 EASTMAN AVENUE VENTURA, CA 93003

Phone: (805) 642-0121
Fax: (805) 644-1542
Contact: Arnold Tostado
Email: atostado@taftelectric.com

Invites sub-bids from qualified **DBE** businesses for the following project:

Oxnard Saviers Traffic Signal Improvements Spec No. PW 19-97 Federal Project No. HSIPL-5129(093) Location: City of Oxnard

REVISED BID DATE: 5/10/2022 @ 2 P.M.

Scope of work/Trades:

Storm water pollution control plan (SWPPP), Traffic Control, AC Pavement, Concrete (Sidewalks, ramps, curb &

gutters) Tree removal, Hand Rails, Striping.

We are an Equal Opportunity Employer and intend to seriously negotiate with qualified Disadvantaged Business Enterprise (DBE)subcontractors and suppliers for projectparticipation.

Payment and performance bonds may be required. Please contact us at the above listed number for further information regarding bidding on this project. To the best of our abilities we will help with bonds/insurance/credit. Plans are available for viewing at our office.

We Are An Equal Opportunity Employer

APRIL 14, 2022 - APRIL 20, 2022 SMALL BUSINESS EXCHANGE 3



CALIFORNIA SUB-BID REQUEST ADS

AECOM

300 S. Grand Avenue, 8th Floor, Los Angeles, CA 90071 • T 1-213-593-8100

REQUEST FOR CBE SUBCONSULTANT INTEREST

AECOM is bidding on the following project as Prime Contractor:

Owner: Los Angeles County Public Works
Request for Proposal No. BRC0000284
FEDERAL ON-CALL ENVIRONMENTAL COMPLIANCE SERVICES FOR
TRANSPORTATION PLANNING AND PROGRAMS DIVISION

Proposal due date: Wednesday, April 27, 2022

AECOM is seeking qualifications from Community Business Enterprise (CBE) companies and Disadvantaged Business Enterprise (DBEs) for the following supporting services:

All subcontractor staff must have graduated from an accredited university with a major in urban and regional planning, environmental sciences, environmental management, environmental engineering, biological sciences, transportation planning, or other related major and have a minimum of 5 years' experience in a field described below:

- Regulatory permitting services, as necessitated by routine maintenance or construction projects;
- Environmental Permit Compliance Services, such as conducting pre-construction surveys/reports; conducting sensitive species protection/avoidance planning; environmental documentation, monitoring and reporting (e.g., air quality, biological, cultural, water quality, hiring tribal monitors) of construction activities; post-construction environmental documentation/monitoring/reporting;
- Preparation of technical environmental impact analysis and studies in the areas of traffic/transportation, air quality/greenhouse gas emissions, energy, biological resources, hydrology/water quality, cultural/paleontological/tribal resources, and noise and vibration;
- Preparation of CEQA/NEPA documentation; including conducting public outreach/ public meetings, prepare outreach materials and public participation plans, and handle logistics of community meetings;
- Experience in native habitat restoration, monitoring, and reporting, arborists and landscape managing, and landscaping with southern California native species.

Experience providing similar services on On-call Environmental Services for federally-funded projects for the Transportation Planning and Programs Division for the County of Los Angeles is preferred. This proposal is in alignment with the County of Los Angeles CBE Program requirements and certified CBEs and DBEs are encouraged to respond.

Interested businesses should email a brief overview of County of Los Angeles or similar experience, along with CBE and/or DBE documentation by **Friday, April 15, 2022** to Randi Clark at randi.clark@aecom.com.



Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser, Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric, Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe, Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt, Steel Structures, Temporary Rail (Type K), Welding Contractor SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

REVISED BID DATE April 29, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC

4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC

An Equal Opportunity Employer



P.O. BOX 100 Folsom, CA 95763
Phone: (916) 351-0457 Fax: (916) 351-1674
Contact: John Pottenburgh • Email: johnp@srco.com & estimating@srco.com

Sub-Bids Requested From **WBE** and **MBE** Subcontractors & Suppliers for:

OWNER: SAN JUAN WATER DISTRICT HINKLE RESERVOIR LINER AND COVER REPLACEMENT PROJECT LOCATION: GRANITE BAY, CA

BID DATE: APRIL 19, 2022 @ 1:30 PM *ADDENDUM NO. 2 ISSUED ON 4/11/2022*

Trades Solicited: Demo, Chain Link Fence & Gates, Pipe Materials, Aggregates, Precast Supply, Concrete Supply, Misc Metal Supply/Install, Roofing, Lumber Supply, Electrical, Joint Sealants, SWPPP, Painting and Coating.

If a portion of the work is too large for you to handle, contact us and we will try and break it into smaller portions. Subcontractors and suppliers must be licensed to conduct business in the state of California.

Must be able to provide payment and performance bonds provided by approved surety company. SRC will pay bond premium up to 1.5% of subcontract amount and will assist with insurance compliance. SRC will work with subcontractors on joint check agreements. Plans and specs are available for viewing at our Folsom office and upon request will provide FTP site for electronic viewing of project.

Bonding, insurance, lines of credit and any technical assistance or information related to the plans or specifications for the work will be made available. Assistance with obtaining necessary equipment, supplies, materials, or related assistance or services for this project will also be offered.

Woodard & Curran, Inc. is requesting qualifications from **Community Business Enterprises (CBE)** to support the following as-needed contract pursuit:

Sub-Bids Requested from Qualified CBE Subcontractors & Suppliers

County of Los Angeles, Department of Public Works
On-Call Engineering and Program Management Support Services
RFP Number: BRC0000321
Location: Los Angeles County
Bid Date: 4/27/2022

Seeking the following trades:

- 1. Hydrogeologist for field services including overseeing well drilling, construction, and testing
- 2. Cost estimator for waterworks and well drilling projects

Woodard & Curran, Inc. 888 South Figueroa Street, Suite 1700 Los Angeles, CA 90017 Phone: 213.223.9478

Contact: Brenda Ponton • Email: <u>bponton@woodardcurran.com</u>

Qualified interested firms should contact Brenda Ponton at bponton@woodardcurran.com or 213.223.9478 by noon on April 17, 2022. Emails should identify specific service areas of interest and provide examples of relevant qualifications. A copy of the RFP is available upon request.



Mesa Energy

14450 Doolittle Drive • San Leandro, CA 94577

City Hall Mechanical Replacement Project - Phase 2
Sourcing Event ID No.: 0000006153
City & County of San Francisco
San Francisco Public Works
Bid Date: 4/27/2022

Bid Documents: https://bsm.sfdpw.org/ContractAdmin/Login.aspx

Description: EMCOR Services Mesa Energy will be bidding on the above advertised project located at San Francisco City Hall. Subcontractor bids and quotes from CMD Certified LBE's S.F. Small & Micro-LBE's are needed for the following types of work:

- AE004 Structural Engineering
- AE006 Electrical Engineering
- AE012 Mechanical Engineering
- CN034 Electrical Contracting (C-10)
- CN001 Sheet Metal Contractors (C-43)
- CN029 Heating, Ventilation, Air Conditioning (C-20)
- CN031 General Building Contracting (B)
- CN035 Plumbing (C-36)
- CN005 Trucking and Hauling

Please Note: Mesa Energy Systems is requesting all quotes by <u>4:00PM</u> on or before **Wednesday, April 20, 2022**, in order for bids to be considered.

All questions should be directed to Jason Cox at 510.755.1105, or email icox@emcor.net.

APRIL 21, 2022 - APRIL 27, 2022 SMALL BUSINESS EXCHANGE 3



CALIFORNIA SUB-BID REQUEST ADS



Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser, Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric, Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe, Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt, Steel Structures, Temporary Rail (Type K), Welding Contractor SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

REVISED BID DATE April 29, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC

4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC

An Equal Opportunity Employer



Is requesting quotes from certified and qualified **DBE** and Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Cable Railing, Clearing & Grubbing, Concrete Structure, Develop Water Supply, Erosion Control, Hydroseeding, Lead Compliance Plan, Reinforcing Steel, Remove Well, Seal Coat, Storm Water Sampling, SWPPP Planning, Temporary Erosion Control, Trucking

SUPPLIERS

Aggregate Base (AB), Alternative Pipe Culvert, Concrete & Cement, Construction Equipment Rental, Corrugated Metal Pipe (CSP), Corrugated Steel Pipe Inlet & Riser, Cover & Grate, Drainage Systems Supplier, Heavy Equipment Rental, Janitorial Services, Lumber And Construction Material, Misc. Iron & Steel Frame, Office Equipment, Paving Asphalt (Asphalt Concrete), Pipe Supplier, Reinforced Concrete Pipe, Reinforcing Bar Section Supplier, Sanitary Services (NEC), Waste Collection And Disposal, Steel, Water Supply

Caltrans DOT Construction on State Highway in San Diego County Near San Diego at 1.9 Miles East of Sanyo Avenue Undercrossing Contract No. 11-056394 DBE Requirement 28%

BID DATE: May 19, 2022 at 2:00 p.m.

All Ouotes Due Prior

Sukut Construction, LLC

4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Greg LeBlanc

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Please contact Greg LeBlanc at Sukut Construction for assistance in responding to this solicitation.

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Sukut Construction, LLC

An Equal Opportunity Employer



Is requesting quotes from certified and qualified **MBE** and **WBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Paving, Cathodic Protection, Cold-Planing, Fencing, Hazardous Material Disposal, Potholing, Signage, Slurry Seal, Survey, Trucking, Video Recording of Existing Conditions, Welding, Welding Inspection, Clearing and Grubbing, Dust Palliative, Temporary Erosion Control, Water Trucks, Geotechnical Engineering

SUPPLIERS

Reinforcing Bar Supplier, Sand and Gravel, Pipe Supplier, Fencing Supplier, Dust Palliative, Asphalt Concrete, Ready-Mix Concrete Supplier, Welded Steel Pipe Supplier, Temporary Fencing, Heavy Equipment Rental, Cathodic Protection, BMP's, Precast Concrete Structures, Miscellaneous Metals, Shoring, Traffic Control

18" Water Transmission Pipeline Replacement Project Avenal, CA CASRF Project No. 1610002-002C MBE GOAL 19% WBE GOAL 9%

BID DATE: May 18, 2022 at 2:00 p.m.

All Ouotes Due Prior

Sukut Construction, LLC

4010 W. Chandler Avenue, Santa Ana, CA 92704

Contact: Robbie Zwick

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Please contact Robbie Zwick at Sukut Construction for assistance in responding to this solicitation.

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Sukut Construction, LLC

An Equal Opportunity Employer



Manson Construction Co. 1401 Marina Way South, Suite 330 • Richmond, CA 94804 TEL: 510-232-6319 • FAX: 510-232-4528

REQUEST FOR QUALIFIED SBE/DBE SUBCONTRACTORS & SUPPLIERS FOR Larkspur Ferry Terminal Berths and Channel Maintenance Dredging BID DATE: June 1, 2022 @ 2:00PM

Quotes are requested for the following items of work:

Tugboat towing and tending services, hydrographic survey, scow tracking, acoustical monitoring, project signage, utility work associated with floating walkway disconnect and re-connect.

Scope of Work includes but not limited to: Maintenance dredging of the Larkspur Ferry Terminal berths, turning basin, and approach channel (channel), including furnishing all labor, materials, equipment, supervision, and any related services required to dredge and dispose of all dredged sediments including performing hydrographic surveys. Tugboat towing and tending services, multi-beam hydrographic surveys, scow tracking, acoustical monitoring, 4'x8' project sign, utilities disconnect and reconnect at the Berth 4 floating walkway: bilge, sewer, service air, potable water, and power.

Manson Construction is willing to break out items of work into economically feasible units to encourage SBE/DBE participation. If you are interested in this project, please provide us with a scope letter and contact James McGuire at jmcguire@mansonconstruction.com or 904-821-0211 by May 20, 2022. Please review Section 11 Diversity Program for Contracts in document 2022F083FrontEnd03-SP-Final.pdf (pg. 153) at the District's website linked below. All SBE/DBE's must submit copies of qualifying certificate with proposal, contractor's license number (if applicable) and NAICS code on scope letter. Additionally, Certified SBE's must submit the "Small Business Enterprise Affidavit of Size" with proposal. 100% Performance bonds and 100% Payment bonds are required. Manson will pay bond premium up to 1½%. Current insurance and workers compensation coverage including USL&H and waiver of subrogation is required. Quotes must be valid for same duration as specified by owner for contract award. Subcontractor and Supplier quotes are required by May 26, 2022 to enable thorough evaluation. Manson intends to work cooperatively with subcontractors and suppliers for all bid items they are licensed and qualified to perform.

Please contact James McGuire at <u>jmcguire@mansonconstruction</u> or 904-821-0211 for any additional questions

Plans and specifications are available for download from Golden Gate Bridge, Highway and Transportation District's portal at https://ggbhtd.bonfirehub.com/opportunities/58488.

An Equal Opportunity Employer

G2. SBE Today ad proofs



PROOF OF PUBLICATION

(2015.5 C.C.P)

STATE OF CALIFORNIA, SS County of San Francisco

I am a citizen of the United States and a resident of the County aforesaid. I am over the age of eighteen years, and not a party to or interested in the above matter. I am the principal clerk of the printer and publisher of The Small Business Exchange, Inc., a newspaper of general circulation printed and published weekly in the City and County of San Francisco, State of California on the date of January 29, 1988, that the notice of which the annexed is a printed copy (set in type not smaller than non pareil), has been published in the **SBE Today** on the following date(s), to wit:

(RUNS FOR ONE DAY)

04-01-2022

04-04-2022

04-08-2022

04-08-2022

04-11-2022

04-15-2022

04-18-2022

04-22-2022

04-25-2022

I declare under penalty of perjury that the foregoing is true and correct. Executed on **04-25-2022** at San Francisco, California.

(Signature)

Corporate Office





Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser, Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric, Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe, Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt, Steel Structures, Temporary Rail (Type K), Welding Contractor SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

BID DATE April 12, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC 4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC An Equal Opportunity Employer



O.C. Jones & Sons, Inc. 1520 Fourth Street • Berkeley, CA 94710 Phone: 510-526-3424 • FAX: 510-526-0990 Contact: Jason Martin and Donat Galicz

REQUEST FOR DBE SUBCONTRACTORS AND SUPPLIERS FOR

Stockton Metropolitan Airport Cargo Ramp Expansion Project San Joaquin County Bid #SCK-2201

BID DATE: April 13, 2022 @ 2:00 PM

We are soliciting quotes for (including but not limited to): Trucking, Temporary and Permanent Hydroseed and Erosion Control Measures, QC/QA Testing, Inlet Protection, Safety & Security, Clearing & Grubbing, Lime Treated Sub-Grade, Lime, Prime Coat, Tack Coat, Marking, Irrigation, Aircraft Rated Inlet, Aircraft Rated Manhole, Rubble Rip Rap with Geotextile Fabric, Sod, Topsoil, Bioretention Soil Media, Temporary Airfield Lighting, Electrical, Apron Light Pole, Sawcutting, Cold Mill, Fencing, Concrete Pavement, Survey, Storm Drain, and Construction Materials

Jason Martin (510-809-3432 jmartin@ocjones.com) and Donat Galicz (510-809-3498 dgalicz@ocjones.com) are the estimators on this project and are available to provide assistance or answer questions regarding the project scope of work including bid requirements, break out of bid items, plan or spec interpretation, bonding or insurance requirements, and other bid assistance. Plans and specs are available to review at our Berkeley office or can be sent out via Building Connected. PDF format quotes should be emailed to the estimator or faxed to 510-526-0990 prior to 12:00 PM on the date of the bid. Quotes from DBE Subcontractors, Suppliers and Truckers are highly encouraged. OCJ is willing to breakout any portion of work to encourage DBE participation. Subcontractors must possess a current DIR, Contractors License, and insurance and workers compensation coverage including waiver of subrogation. OCJ may require Performance and Payment bonds on subcontracts. OCJ will pay the bond premium up to 2% of the contract value. Please contact OCJ for any assistance required by your firm in obtaining bonding or insurance. The US Small Business Administration may also assist you in obtaining bonding - please see the following site for information: http://www.sba.gov/content/contractors. Visit the California Access to Capital Program Financing Solutions website for additional resources for your small business - http://www.calbizfinance.org/cal_cert_biz_program.html. OCJ is available to help obtain necessary equipment, material and/or supplies. All subcontractors are required to execute OC Jones' standard subcontract agreement, comply with all insurance requirements, and name OCJ as additional insured. Copies of our agreement and insurance requirements are available upon request. OCJ is an Equal Opportunity Employer.



CONSTRUCTION

11555 Dublin Boulevard • P.O. Box 2909 Dublin, CA 94568-2909 (925) 829-9220 / FAX (925) 803-4263 Website: www.desilvagates.com ESTIMATOR: JAMES YACKLEY An Equal Opportunity/ Affirmative Action Employer

DeSilva Gates Construction (DGC) is preparing a bid as a Prime Contractor for the project listed below:

STOCKTON METROPOLITAN AIRPORT – CARGO RAMP EXPANSION PROJECT Bid No. SCK-2201, RS&H Project No. 226-0019-008 Disadvantaged Business Enterprise Goal Assigned is 1.5%

> OWNER: COUNTY OF SAN JOAQUIN DEPARTMENT OF AVIATION 5000 South Airport Way, Room 202, Stockton, CA 95206

> BID DATE: APRIL 13, 2022 @ 2:00 P.M.

DGC is soliciting quotations from certified Disadvantaged Business Enterprises, for the following types of work and supplies/materials including but not limited to:

CLEARING AND GRUBBING/DEMOLITION, COLD PLANE, ELECTRICAL, EMULSION SUPPLIER, EROSION CONTROL, FENCING, HYDROSEEDING, JOINT SEAL, LANDSCAPING, LIME TREATMENT, PCC PAVING, PRIME OIL SUPPLIER, ROADWAY EXCAVATION, STRIPING, SURVEY/ STAKING, SWPPP/WATER POLLUTION CONTROL PLAN PREPARATION, TRAFFFIC CONTROL SYSTEMS, UNDERGROUND, TRUCKING, WATER TRUCKS, STREET SWEEPING, CRUSHED AGGREGATE BASE MATERIAL (P-209), HOT MIX ASPHALT MATERIAL (P-401), ASPHALT BINDER.

Plans and specifications may be reviewed at our offices located at 11555 Dublin Boulevard, Dublin, CA and 3855 North Freeway Boulevard, Suite 100, Sacramento, CA or at your local Builders Exchange, or reviewed and downloaded from the dropbox site at https://www.dropbox.com/sh/5rvdc1bwfbasg19/AABbrd0ba51_kN3GtAE5fBUoa2dl=0 or from the Owner's site at www.e-arc.com/ca/stockton

Fax your bid to (925) 803-4263 to the attention of Estimator James Yackley. If you have questions for the Estimator, call at (925) 829-9220. When submitting any public works bid please include your DUNS number and DIR number. For questions regarding registration for DIR use the link at www.dir.ca.gov/Public-Works/Pu

If you need DBE support services and assistance in obtaining bonding, lines of credit, insurance, necessary equipment, materials and/or supplies or related assistance or services, for this project call the Estimator at (925) 829-9220, or contact your local Small Business Development Center Network (http://californiasbdc.org) or contact the California Southwest Transportation Resource Center (www.transportation.gov/osdbu/SBTRCs). DGC is willing to breakout portions of work to increase the expectation of meeting the DBE goal.

At our discretion, 100% Payment and 100% Performance bonds may be required as a subcontract condition. This will be a PREVAILING WAGE JOB. DGC is an Equal Opportunity/Affirmative Action Employer.







P.O. BOX 100 Folsom, CA 95763 Phone: (916) 351-0457 Fax: (916) 351-1674 Contact: John Pottenburgh

Email: johnp@srco.com & estimating@srco.com

Sub-Bids Requested From **WBE** and **MBE** Subcontractors & Suppliers for:

OWNER: SAN JUAN WATER DISTRICT HINKLE RESERVOIR LINER AND COVER REPLACEMENT PROJECT LOCATION: GRANITE BAY, CA BID DATE: APRIL 19, 2022 @ 1:30 PM

Trades Solicited: Demo, Chain Link Fence & Gates, Pipe Materials, Aggregates, Precast Supply, Concrete Supply, Misc Metal Supply/Install, Roofing, Lumber Supply, Electrical, Joint Sealants, SWPPP, Painting and Coating.

If a portion of the work is too large for you to handle, contact us and we will try and break it into smaller portions. Subcontractors and suppliers must be licensed to conduct business in the state of California.

Must be able to provide payment and performance bonds provided by approved surety company. SRC will pay bond premium up to 1.5% of subcontract amount and will assist with insurance compliance. SRC will work with subcontractors on joint check agreements. Plans and specs are available for viewing at our Folsom office and upon request will provide FTP site for electronic viewing of project.

Bonding, insurance, lines of credit and any technical assistance or information related to the plans or specifications for the work will be made available. Assistance with obtaining necessary equipment, supplies, materials, or related assistance or services for this project will also be offered.

RCS Inc.

Kim Romero, President kromero777@gmail.com 1-562-307-7734 www.rcsinc.info SBE/DBE/MBE Certified DIR Certified

California Located
Servicing the Contractor with
Dedication and Professionalism

Consulting Services

Baseline Schedule, Monthly Schedule Updates, Earned Value, Resource/Cost Loading, Cost Analysis, Change Order Review/Negotiation, Claim Assessment, Schedule Delay, Disruption, Impact and Acceleration Analysis, Settlement Negotiation, Litigation Support, Arbitration Support, Expert Reporting and Testimony.

Shimmick Construction Company, Inc.

1 Harbor Center, Suite 200 • Suisun City, CA 94585 Phone (707) 759-6858 • Fax (510) 777-5099 An Equal Opportunity Employer

SBE & DVBE Subcontractor/Supplier Bids Requested For:

Department of Water Resources (DWR)
Salmonid Habitat Restoration and Fish Passage – Big Notch
Specification No. 22-04

BID DATE: Tuesday, April 12th, 2022 at 2pm

Email quotes to jmiranda@shimmick.com

Shimmick Construction Company, Inc. is requesting quotes from certified SBE and/or DVBE subcontractors and suppliers in the following scopes of work:

SUBCONTRACTORS: Barrier Rail, Bridge-Rail Concrete, Clear & Grub, Concrete Building, Demolition, Earthwork, Electrical, Environmental, Erosion Control, Fencing, Flatwork, Grinding AC Concrete, Instrumentation, Masonry, Mechanical, CIDH Piles, Post Tensioning, Rebar, Signs

SUPPLIERS: Aggregate, Bearing Pads, Expansion Joints, Fabric, Isolation Bearings, Mechanical Equipment, Misc. Metal, Pile Pipe, Sheet Pile, Steel Pipe, Plastic Utility Pipe, Precast Utility, Ready Mix, Valves & Fittings

Project information may be viewed on DWR's website, https://caleprocure.ca.gov/event/3860/0000022389. To view and download full plans and specifications, please contact Jamie Miranda at imiranda@shimmick.com for a download link. You may also schedule an appointment via WebEx to discuss the documents during regular business hours.

Should you require any assistance, please contact our lead estimator Charlie Marrow at cmarrow@shimmick.com.

All items of work listed above are made available, even items of work normally performed by Shimmick. Please contact the lead estimator listed above for assistance with breaking down items of work into economically feasible units, with assistance obtaining equipment, supplies, materials, bonding, insurance, estimating, or related assistance. 100% Performance and Payment bonds with a surety company subject to approval of Shimmick Construction Company, Inc. are required of subcontractors for this project. Shimmick Construction will pay bond premium up to 1.5%. Subcontractors will be required to abide by terms and conditions of the AGC Master Labor Agreements and to execute an agreement utilizing the latest SCCI Long Form Standard Subcontract incorporating prime contract terms and conditions, including payment provisions. Shimmick Construction's listing of a Subcontractor is not to be construed as an acceptance of all of the Subcontractor's conditions or exceptions included with the Subcontractor's price quote. Shimmick Construction requires that Subcontractors and Suppliers price quotes be provided at a reasonable time prior to the bid deadline to enable a complete evaluation. For assistance with bonding, insurance or lines of credit contact David Walsh at (720) 798-2280.



Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser, Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric, Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe, Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt, Steel Structures, Temporary Rail (Type K), Welding Contractor SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

BID DATE April 12, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC 4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

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Sukut Construction, LLC

An Equal Opportunity Employer

6 SBE TODAY E-NEWSLETTER WWW.SBEINC.COM APRIL 8, 2022



CALIFORNIA SUB-BID REQUEST ADS



Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser, Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric, Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe, Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt, Steel Structures, Temporary Rail (Type K), Welding Contractor

SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

REVISED BID DATE April 29, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC

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TAFT ELECTRIC COMPANY

1694 EASTMAN AVENUE
VENTURA, CA 93003
Phone: (805) 642-0121
Fax: (805) 644-1542
Contact: Arnold Tostado
Email: atostado@taftelectric.com

Invites sub-bids from qualified **DBE** businesses for the following project:

Oxnard Saviers Traffic Signal Improvements Spec No. PW 19-97 Federal Project No. HSIPL-5129(093) Location: City of Oxnard

REVISED BID DATE: 5/10/2022 @ 2 P.M.

Scope of work/Trades:

Storm water pollution control plan (SWPPP), Traffic Control, AC Pavement, Concrete (Sidewalks, ramps, curb & gutters) Tree removal, Hand Rails, Striping.

We are an Equal Opportunity Employer and intend to seriously negotiate with qualified Disadvantaged Business Enterprise (DBE) subcontractors and suppliers for project participation.

Payment and performance bonds may be required. Please contact us at the above listed number for further information regarding bidding on this project. To the best of our abilities we will help with bonds/insurance/credit. Plans are available for viewing at our office.

We Are An Equal Opportunity Employer

6 Ways to Improve Your Construction Company's Profitability

Continued from page 1

This is why having an accurate account of your job costs and overhead is so important. It allows your estimators to add in the proper markups to hit your profit margin goals. A good bid is based on concrete data, not guesswork. Be sure to consider the risk factors on each project and build in a contingency line to your bid that can absorb additional costs when risk becomes reality.

Estimators also need to know the productivity levels of your field workers, so they can create realistic job costs. Keep track of actual versus estimated job costs on each project, especially labor costs and productivity rates, so your estimators can determine how accurate their estimates were and what adjustments might need to be made on your next bid.

Avoid racing to the bottom by always trying to be the lowest bidder. If you undercut your bids to win, you'll always struggle to be profitable. As you go through your bid/no bid decision making, profitability should be your top consideration along with a risk analysis and your firm's capability to perform the work. Bottom line: don't sacrifice profit just to win more work.

Set Profitability Goals

If you want to improve the overall profitability of your company, you need to set profit margin goals. Where does your company want to be in the next year? Five years? Ten years? Maybe you're looking to grow your business or expand into new markets and territories. Perhaps you're wanting to tackle larger projects or make the jump from public projects to the private sector.

Knowing your long-term business plans will allow you to set achievable revenue and profitability goals to get you where you want to be. It will also help shape the types of projects you take on and guide your estimators on the markup percentage they should shoot for on each project to help you hit those goals.

Manage for Profitability & Track Costs

Good project management is key to improving profitability. If you want to hit your profit goal on a project you have to keep your costs down and finish the project within the scheduled completion date. Be sure to keep track of costs on any change orders so that they can be billed properly and increase your profit margin. Don't do additional work on a project until a price has been agreed upon and it has been approved by the client.





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Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

REVISED BID DATE April 29, 2022 at 12:00 p.m.

All Quotes Due Prior

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Sukut Construction, LLCAn Equal Opportunity Employer



Mesa Energy

14450 Doolittle Drive • San Leandro, CA 94577

City Hall Mechanical Replacement Project - Phase 2
Sourcing Event ID No.: 0000006153
City & County of San Francisco
San Francisco Public Works
Bid Date: 4/27/2022

Bid Documents: https://bsm.sfdpw.org/ContractAdmin/Login.aspx

Description: EMCOR Services Mesa Energy will be bidding on the above advertised project located at San Francisco City Hall. Subcontractor bids and quotes from CMD Certified LBE's S.F. Small & Micro-LBE's are needed for the following types of work:

- AE004 Structural Engineering
- AE006 Electrical Engineering
- AE012 Mechanical Engineering
- CN034 Electrical Contracting (C-10)
- CN001 Sheet Metal Contractors (C-43)
- CN029 Heating, Ventilation, Air Conditioning (C-20)
- CN031 General Building Contracting (B)
- CN035 Plumbing (C-36)
- CN005 Trucking and Hauling

Please Note: Mesa Energy Systems is requesting all quotes by <u>4:00PM</u> on or before <u>Wednesday, April 20, 2022</u>, in order for bids to be considered.

All questions should be directed to Jason Cox at 510.755.1105, or email jcox@emcor.net.

GOLDENGATE

11555 Dublin Boulevard • P.O. Box 2909 Dublin, CA 94568-2909 (925) 829-9220 / FAX (925) 803-4263 Website: www.desilvagates.com ESTIMATOR: JACK SHEWMAKER An Equal Opportunity/ Affirmative Action Employer

Golden Gate Constructors (GGC) is preparing a bid as a Prime Contractor for the project listed below:

SAN FRANCISCO INTERNATIONAL AIRPORT RUNWAY 1L-19R REHABILITATION Contract No. 8795.61 Small Business Enterprise (SBE) Goal: 6.4%

Owner:

SAN FRANCISCO AIRPORT COMMISSION 676 North McDonnell Road San Francisco, CA 94128

REVISED BID DATE: APRIL 12th, 2022 @ 10:00 AM

GGC is soliciting quotations from certified local Small Business Enterprises for the following types of work and supplies/materials including but not limited to:

Cold Plane, Electrical, Emulsion supplier, Lime Treatment, Pavement Grooving, Saw cutting, Slurry Seal, Striping, Survey/Staking, SWPPP Prep/ Water Pollution Control Plan Prepare, Temporary Erosion Control, Testing, Trucking, Water Trucks, Street Sweeping, Class 2 Aggregate Base Material, Class 4 Aggregate Base Material, Hot Mix Asphalt (Type B) Material.

Plans and specifications may be reviewed at our offices located at 11555 Dublin Boulevard, Dublin, CA or 3855 N Freeway Blvd Suite 100 Sacramento, CA 95834, or at your local Builders Exchange, or reviewed and downloaded from our dropbox: https://www.dropbox.com/sh/o346g50yd20svsj/AACW8r8jxFPWs-n6u5DQgeoga?dl=0

Or from the Owner's site www.sfoconstruction.com or by contacting San Francisco Airport Commission at 676 North McDonnell Road San Francisco, CA (650-466-0290), Contract Manager Daniel Lee at (650) 821-7767 and Daniel.lee@flysfo.com, Contract Administrator Hirokazu Sato at (650) 821-3520 and Hirokazu.Sato@flysfo.com.

Fax your bid to (925) 803-4263 or email to dgcestimating@desilvagates.com to the attention of Estimator Jack Shewmaker. If you have questions for the Estimator, call at (925) 829-9220. When submitting any public works bid please include your DUNS number and DIR number. For questions regarding registration for DIR use the link at: www.dir.ca.gov/Public-Works/PublicWorks.html

If you need SBE support services and assistance in obtaining bonding, lines of credit, insurance, necessary equipment, materials and/or supplies or related assistance or services, for this project call the Estimator at (925) 829-9220, or contact your local Small Business Development Center Network (http://californiasbdc.org) or contact the California Southwest Transportation Resource Center (www. transportation.gov/osdbu/SBTRCs). GGC is willing to breakout portions of work to increase the expectation of meeting the SBE goal.

At our discretion, 100% Payment and 100% Performance bonds may be required as a subcontract condition. This will be a PREVAIL-ING WAGE JOB. DGC is an Equal Opportunity/ Affirmative Action Employer.





Mesa Energy

14450 Doolittle Drive • San Leandro, CA 94577

City Hall Mechanical Replacement Project - Phase 2
Sourcing Event ID No.: 0000006153
City & County of San Francisco
San Francisco Public Works
Bid Date: 4/27/2022

Bid Documents: https://bsm.sfdpw.org/ContractAdmin/Login.aspx

Description: EMCOR Services Mesa Energy will be bidding on the above advertised project located at San Francisco City Hall. Subcontractor bids and quotes from CMD Certified LBE's S.F. Small & Micro-LBE's are needed for the following types of work:

- AE004 Structural Engineering
- AE006 Electrical Engineering
- AE012 Mechanical Engineering
- CN034 Electrical Contracting (C-10)
- CN001 Sheet Metal Contractors (C-43)
- CN029 Heating, Ventilation, Air Conditioning (C-20)
- CN031 General Building Contracting (B)
- CN035 Plumbing (C-36)
- CN005 Trucking and Hauling

Please Note: Mesa Energy Systems is requesting all quotes by <u>4:00PM</u> on or before **Wednesday, April 20, 2022**, in order for bids to be considered.

All questions should be directed to Jason Cox at 510.755.1105, or email icox@emcor.net.



Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

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Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

REVISED BID DATE April 29, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC 4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

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SKANSKA • TRAYLOR • SHEA

Skanska-Traylor-Shea JV 5055 Wilshire Blvd, Suite 700, Los Angeles, CA

requests sub-bid quotes from all interested firms, including certified DBE's for Street Sweeping, Temporary Sanitation Facilities, Asphalt Concrete Paving, Permanent Striping & Station Furnishings on the

Westside Subway Extension Section 1 project. Owner: LACMTA (Metro). Contract No. C1045 RFP No. 135WS, 136WS, 137WS, 138WS & 142WS

Bid Date: April 18, 2022 at 2:00pm.

Plans & Specs can be viewed at our office Monday - Friday 7am to 4pm (call for appointment) or downloaded free at:

135WS Street Sweeping:

https://skanskausa.sharefile.com/i/i2da7fa784e44089b 136WS Temporary Sanitation Facilities:

https://skanskausa.sharefile.com/i/i9cf46bc77374722a

137WS Asphalt Concrete Paving:

https://skanskausa.sharefile.com/i/ie27d09895e1456c9

138WS Permanent Striping:

https://skanskausa.sharefile.com/i/i020ce5336204d3ca

142WS Station Furnishings:

https://skanskausa.sharefile.com/i/ie18303d78ee42a18

One-on-One Office Hours: In-person or virtual option to meet one-on-one with STS outreach team for Q & A. (Not mandatory, but highly recommended.) Register at: https://bit.ly/WSOfficeHours

Should you have any questions or desire to quote on this project, please contact Nicole Holliday, DBE Compliance Administrator at 213-407-8571 or nicole.holliday@skanska.com. Assistance in bonding, insurance, lines of credit or obtaining equipment, supplies and materials is available upon request. This advertisement is in response to Metro's DBE program. Skanska-Traylor-Shea JV intends to conduct itself in good faith with DBE firms regarding participation on this project. More info about this project is available at www.skanska-traylor-shea.com.

Skanska-Traylor-Shea JV is an EEO/AA/Vet/Disability Employer.

Woodard & Curran, Inc.

is requesting qualifications from

Community Business Enterprises (CBE)

to support the following as-needed contract pursuit:

Sub-Bids Requested from Qualified CBE Subcontractors & Suppliers

County of Los Angeles,
Department of Public Works
On-Call Engineering and Program
Management Support Services
RFP Number: BRC0000321
Location: Los Angeles County

Bid Date: 4/27/2022

Seeking the following trades:

- 1. Hydrogeologist for field services including overseeing well drilling, construction, and testing
- 2. Cost estimator for waterworks and well drilling projects

Woodard & Curran, Inc. 888 South Figueroa Street, Suite 1700 Los Angeles, CA 90017 Phone: 213.223.9478

Contact: Brenda Ponton
Email: bponton@woodardcurran.com

Qualified interested firms should contact Brenda Ponton at bponton@woodardcurran.com or 213.223.9478 by noon on April 17, 2022. Emails should identify specific service areas of interest and provide examples of relevant qualifications. A copy of the RFP is available upon request.





Mesa Energy

14450 Doolittle Drive • San Leandro, CA 94577

City Hall Mechanical Replacement Project - Phase 2
Sourcing Event ID No.: 0000006153
City & County of San Francisco
San Francisco Public Works
Bid Date: 4/27/2022

Bid Documents: https://bsm.sfdpw.org/ContractAdmin/Login.aspx

Description: EMCOR Services Mesa Energy will be bidding on the above advertised project located at San Francisco City Hall. Subcontractor bids and quotes from CMD Certified LBE's S.F. Small & Micro-LBE's are needed for the following types of work:

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- AE006 Electrical Engineering
- AE012 Mechanical Engineering
- CN034 Electrical Contracting (C-10)
- CN001 Sheet Metal Contractors (C-43)
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- CN031 General Building Contracting (B)
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- CN005 Trucking and Hauling

Please Note: Mesa Energy Systems is requesting all quotes by <u>4:00PM</u> on or before <u>Wednesday, April 20, 2022</u>, in order for bids to be considered.

All questions should be directed to Jason Cox at 510.755.1105, or email icox@emcor.net.



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SUBS/SERVICE PROVIDERS

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SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

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Sukut Construction, LLC

An Equal Opportunity Employer

DESILVA GATES

CONSTRUCTION

11555 Dublin Boulevard • P.O. Box 2909 Dublin, CA 94568-2909 **Phone:** (925) 829-9220 / **Fax:** (925) 803-4263

Website: www.desilvagates.com
ESTIMATOR: DAVID CZECH

An Equal Opportunity/ Affirmative Action Employer

DeSilva Gates Construction (DGC) is preparing a bid as a Prime Contractor for the project listed below:

SR 120 / MCKINLEY AVENUE INTERCHANGE
PROJECT: FOR CONSTRUCTION ON STATE HIGHWAY
IN SAN JOAQUIN COUNTY ON STATE ROUTE
120 IN THE CITY OF MANTECA AT MCKINLEY
AVENUE FROM 1.4 MILE WEST TO 1.0 MILE EAST
OF MCKINLEY AVENUE UNDERCROSSING

Disadvantaged Business Enterprise (DBE) Goal
Assigned is 12%

OWNER: CITY OF MANTECA DEPARTMENT OF ENGINEERING City Hall: 1001 West Center Street Manteca, CA 95337

BID DATE: APRIL 26TH, 2022 @ 2:00 P.M.

DGC is soliciting quotations from certified Disadvantaged Business Enterprises, for the following types of work and supplies/materials including but not limited to:

AC Dike, Adjust Iron, Biologist Consultant, Clearing and Grubbing/Demolition, Concrete Barrier, Construction Area Sign, Electrical, Emulsion supplier, Erosion Control, Fencing, Lead Compliance Plan, Metal Beam Guardrail, Minor Concrete, Minor Concrete Structure, PCC Paving, Roadside Signs, Saw cutting, Sign Structure, Soil Nail & Ground Anchor Walls (Complete), Striping, Structural Backfill, Structural Excavation, Survey/Staking, SWPPP Prep/ Water Pollution Control Plan Prepare, Temporary Erosion Control, Testing, Traffic, Control Systems, Underground, Vegetation Control, Well Drilling & Sealing, Trucking, Water Trucks, Street Sweeping, Hot Mix Asphalt (Type A) Material.

Plans and specifications may be reviewed at our offices located at 11555 Dublin Boulevard, Dublin, CA and 3855 North Freeway Boulevard, Suite 100, Sacramento, CA or at your local Builders Exchange, or reviewed and downloaded from the dropbox site at https://www.dropbox.com/sh/5rvdc1bwfbasgl9/AAB-brd0ba51_kN3GtAESfBUoa?dl=0 or from the Owner's site at https://www.ci.manteca.ca.us/Engineering/ProjectInformation/Pages/default.aspx

Fax your bid to (925) 803-4263 to the attention of Estimator David Czech. If you have questions for the Estimator, call at (925) 829-9220. When submitting any public works bid please include your DUNS number and DIR number. For questions regarding registration for DIR use the link at www.dir.ca.gov/Public-Works/Public-Works/html

If you need DBE support services and assistance in obtaining bonding, lines of credit, insurance, necessary equipment, materials and/or supplies or related assistance or services, for this project call the Estimator at (925) 829-9220, or contact your local Small Business Development Center Network (http://californiasbdc.org) or contact the California Southwest Transportation Resource Center (www.transportation.gov/osdbu/SBTRCs). DGC is willing to breakout portions of work to increase the expectation of meeting the DBE goal.

At our discretion, 100% Payment and 100% Performance bonds may be required as a subcontract condition. This will be a PREVAILING WAGE JOB. DGC is an Equal Opportunity/Affirmative Action Employer.







Is requesting quotes from certified and qualified **MBE** and **WBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Paving, Cathodic Protection, Cold-Planing, Fencing, Hazardous Material Disposal, Potholing, Signage, Slurry Seal, Survey, Trucking, Video Recording of Existing Conditions, Welding, Welding Inspection, Clearing and Grubbing, Dust Palliative, Temporary Erosion Control, Water Trucks, Geotechnical Engineering

SUPPLIERS

Reinforcing Bar Supplier, Sand and Gravel, Pipe Supplier, Fencing Supplier, Dust Palliative, Asphalt Concrete, Ready-Mix Concrete Supplier, Welded Steel Pipe Supplier, Temporary Fencing, Heavy Equipment Rental, Cathodic Protection, BMP's, Precast Concrete Structures, Miscellaneous Metals, Shoring, Traffic Control

18" Water Transmission Pipeline Replacement Project Avenal, CA CASRF Project No. 1610002-002C MBE GOAL 19% WBE GOAL 9%

BID DATE: May 18, 2022 at 2:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC

4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Robbie Zwick

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

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Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

REVISED BID DATE April 29, 2022 at 12:00 p.m.

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REQUESTING DVBE COMPANIES

FOR THE FOLLOWING PROJECT:

PROJECT:

CONCESSION & RESTROOM BUILDINGS AT ANTELOPE, WOODCREEK, ROSEVILLE, OAKMONT & GRANITE BAY HIGH SCHOOL

OWNER:

ROSEVILLE JOINT UNION HIGH SCHOOL DISTRICT 1710 CIRBY WAY, ROSEVILLE, CA 95661

LOCATION: VARIOUS SITES

BID DATE: MAY 6, 2022 @ 10:00 a.m.

Bids should be sent to: estimating@carterkelly.com and faxed to 530-621-2344

Carter Kelly Construction
P.O. BOX 1477
PLACERVILLE, CA 95667
PHONE: 530-621-0950 • FAX: 530-621-2344
CONTACT: JIM CARTER

Carter-Kelly, Inc. is proud to be an EEO and requests quotations from Disabled Veterans, Small Business, Minority and Woman Owned businesses.

Any questions please call Robyn Kelly 530-621-0950 or email: robynk@carterkelly.com



SBE OUTREACH SERVICES

With 1.5 million businesses in our database, SBE is California's #1 source for diversity outreach.

Advertisements

Placed in the Small Business Exchange newspaper, SBE Today newsletter, and online at www.sbeinc.com

Faxed and Eblast Solicitations

Targeted mailings sent to businesses per your criteria.

Telemarketing

Telephone follow-up calls that follow a script of 5 questions you create.

Computer Generated Reports

Will fit right into your proposal, along with a list of interested firms to contact.

Contact Info:

1160 Battery Street East, Suites #100 San Francisco, CA 94111 Email: sbe@sbeinc.com Website: www.sbeinc.com Phone: (415) 778-6250, (800) 800-8534 Fax: (415) 778-6255

Publisher of

Small Business Exchange weekly newspaper





Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Concrete Structure, Corrugated Steel Pipe Inlet & Riser, Erosion Control, Hydroseeding, Minor Concrete Structure, Pavement Reinforcing Fabric, Paving Asphalt, Paving Asphalt Concrete Dike, Plastic Pipe, Portland Cement & Concrete Pavement, Recycle/Reclaim Asphalt, Steel Structures, Temporary Rail (Type K), Welding Contractor

SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

REVISED BID DATE April 29, 2022 at 12:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC

4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner at no cost to interested firms. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Sukut will assist qualified subcontractors in obtaining necessary equipment, suppliers, or materials. Please contact Tom Wadden at Sukut Construction for assistance in responding to this solicitation.

Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC An Equal Opportunity Employer



Is requesting quotes from certified and qualified **DBE** and Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

Asphalt Concrete, Cable Railing, Clearing & Grubbing, Concrete Structure, Develop Water Supply, Erosion Control, Hydroseeding, Lead Compliance Plan, Reinforcing Steel, Remove Well, Seal Coat, Storm Water Sampling, SWPPP Planning, Temporary Erosion Control, Trucking

SUPPLIERS

Aggregate Base (AB), Alternative Pipe Culvert, Concrete & Cement, Construction Equipment Rental, Corrugated Metal Pipe (CSP), Corrugated Steel Pipe Inlet & Riser, Cover & Grate, Drainage Systems Supplier, Heavy Equipment Rental, Janitorial Services, Lumber And Construction Material, Misc. Iron & Steel Frame, Office Equipment, Paving Asphalt (Asphalt Concrete), Pipe Supplier, Reinforced Concrete Pipe, Reinforcing Bar Section Supplier, Sanitary Services (NEC), Waste Collection And Disposal, Steel, Water Supply

Caltrans DOT Construction on State Highway in San Diego County Near San Diego at 1.9 Miles East of Sanyo Avenue Undercrossing Contract No. 11-056394 DBE Requirement 28%

BID DATE: May 19, 2022 at 2:00 p.m.

All Quotes Due Prior

Sukut Construction, LLC 4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Greg LeBlanc

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

Plans/specs are available for viewing at our office by appointment, by Sukut FTP, or from Owner. Subcontractors must be prepared to furnish 100% performance and payment bonds and possess current insurance and workers' comp coverage. Sukut will assist qualified subcontractors in obtaining bonds, insurance, and/or lines of credit. Subcontractors/Vendors will be required to sign Sukut's Standard Subcontract/Purchase Order. Copies are available for examination. Please contact Greg LeBlanc at Sukut Construction for assistance in responding to this solicitation.

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Sukut Construction, LLC An Equal Opportunity Employer

FLATIRON

REQUEST FOR CERTIFIED DBE SUBCONTRACTORS/SUPPLIERS/SERVICES

Caltrans Contract 01-436404
Construction on State Highway in Del Norte County
near Crescent City from 0.3 mile South of Smith River
to 0.4 mile North of Smith River on Route 101

(General Work Description: Replace structural concrete bridge)

EE: \$53M DBE Goal 21%
Bid Date: May 11th, 2022 at 2:00 PM
This is an Electronic bid submittal

**Quotes not received by 11:00 AM on bid day may not be
reviewed/evaluated**

Flatiron West, Inc. requests DBE subcontractor/supplier/
service participation for the following Items of work,
but not limited to: CAS/Roadway Signs, Bridge Demo, Clear
& Grub, Erosion Control, Landscaping /Irrigation, AC Paving,
Cold Plane AC, AC Dike/Curbs, CIDH, Joint Seal Assembly,
Post Tensioning (PT), Rebar, Overhead Signs, Painting/Concrete Staining, Underground Utilities, Fencing, Metal Railing, MBGR, Bridge Concrete Barrier, Striping & Markings,
Electrical, Minor Concrete, Pavement Fabric, Abandon Well,
Welding, Roadway and Grading, Temporary Modular Bridge,
Trucking & Aggregates (CL2), Ready Mix, Concrete Pumping,
Steel Pipe Pile, Welded Steel Pipe, Underground Pipe Products including: 24 & 36 Alt Pipe Culvert, Temp Culvert 12 & 18,
30 Corrugated Steel, 2 Plastic), Misc. Iron & Steel, Misc. Metals, Trucking, HazMat Trucking, SWPP Plan, SWPP Materials,
Lead Compliance Plan, Geotextile Materials, Seismic Isolation
Bearings, Bridge Bearings, Formliner, Underground Precast,
Street Sweeping, Traffic Control, Import Borrow, Steel Casing, Timber Lagging, Bat & Bird Exclusion Devices, Decorative
Boulders, Pile Driving, Soldier Pile Wall with Timber Lagging,
Temporary Creek Diversion System, Work Area Monitoring,
Survey, QC Testing Services, QC Testing, Biologist, and Hydroacoustic Monitoring.

Non-DBE Subs/Suppliers: You will be expected to carry a proportionate percentage of 2nd-tier DBE participation with your quote. 2nd-tier DBE participation will be evaluated with your price.

100% performance/payment bonds will be required for the full amount of the subcontract price. Please contact Flatiron for any assistance to this solicitation, including obtaining bonding, insurance, equipment, materials and/or supplies. Provide subcontractor/supplier scopes/quotes as early as possible to enable estimators to perform a thorough evaluation of all quotes received. Quotes will be broken down into comparable packages as reasonably necessary to facilitate participation. Quotes must be valid for the same duration as specified by the Owner for Contract Award. We are signatory to Operating Engineers, Laborers, Cement Masons, Carpenters and Pile Drivers Unions. Non-signatory subs will be required to sign an agreement for trades covered under our union agreements. Flatiron intends to work cooperatively with subcontractors and suppliers for all bid items you are licensed and qualified to perform. Bid items can be split to facilitate participation from all certified firms. Flatiron will reimburse for bond premium up to 2%. Firms must possess & provide current contractor's license number & DIR Registration number on the quote. Firms must possess insurance and workers compensation coverage meeting project requirements. Waiver of Subrogation is required. Please contact Flatiron for any assistance required by your firm. Subcontractors/ Suppliers will be required to execute our standard agreements and agree to the standard general terms & conditions. Copies are available for review on our Box.com ftp site upon email request. To view and download projects docs for FREE from the Caltrans website you will need to "Create an Account" with Caltrans Connect. Use the following link http://ppmoe.dot. ca.gov/des/oe/weekly-ads/all-adv-projects.php to enter the Advertised Projects page and scroll to Contract number: 01-436404. Sign in is required to access project plans.

To access **FREE** project documents from our Flatiron BOX ftp site, please send an email request to **NorCallbids@flatironcorp.com** You will be provided with a BOX link to view & download plans and specs for **FREE** from our BOX.com ftp site. Due to Covid-19 & social distancing requirements still in place in some areas, we are not currently scheduling appointments to review project docs or meet with estimators in our office. When all pandemic restrictions are lifted, we will offer these services again in our office by appointment only. Thank you for your understanding.

Please email ALL Scopes/Quotes to: NorCalBids@flatironcorp.com

Flatiron West, Inc. 2100 Goodyear Rd Benicia, CA 94510 Phone 707-742-6000 • Bid Fax 707-746-1603 An Equal Opportunity Employer Contractor License 772589

G3. www.sbeinc.com ad proofs



PROOF OF PUBLICATION

(2015.5 C.C.P)

STATE OF CALIFORNIA, SS County of San Francisco

I am a citizen of the United States and a resident of the County aforesaid. I am over the age of eighteen years, and not a party to or interested in the above matter. I am the principal clerk of the printer and publisher of The Small Business Exchange, Inc., a newspaper of general circulation printed and published weekly in the City and County of San Francisco, State of California on the date of January 29, 1988, that the notice of which the annexed is a printed copy (set in type not smaller than non pareil), has been published on **sbeinc.com** on the following date(s), to wit:

03-29-2022 to 04-29-2022

I declare under penalty of perjury that the foregoing is true and correct. Executed on 04-26-2022 at San Francisco, California.

Logout

HOME CUSTOMERS SITES STAFF ARTICLES PDF NEWSLETTER ADVERTISING PRODUCTS EVENTS FORM BUILDER

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Title: Sukut Construction LLC - Organics Processing Facility, San Diego, CA - RFP No. K-22-2049-DB1-3-C

Date Posted: March 29, 2022

Expiry/Bid Date: April 29, 2022

Sub Bid Request Category: Sub Bid Requests

Price: 0

Email Address:

Address1: 4010 West Chandler Ave

Listed under sites: SBEInc

City: Santa Ana

State: CA

Zip Code: 92704

Country: United States

Phone:714-540-5351

Status: Active

Description:

Header Content:

Image File: Screen Shot 2022-04-06 at 8.44.14 AM.png

1 of 1 4/26/22, 3:43 PM



Is requesting quotes from City of San Diego certified and qualified **SLBE** and **ELBE** Subcontractors, Suppliers, and Service Providers for the following (but not limited to) work:

SUBS/SERVICE PROVIDERS

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SUPPLIERS

Aggregate Base, Building Material Supplier, Construction Area Signs, Corrugated Steel Pipe Inlet & Riser, Drainage Systems Supplier, Electrical & Signals Supplier, Pipe Supplier, Plastic Pipe, Steel Supplier

Organics Processing Facility, San Diego, CA RFP No. K-22-2049-DB1-3-C SLBE GOAL 5% ELBE GOAL 10.3%

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All Quotes Due Prior

Sukut Construction, LLC

4010 W. Chandler Avenue, Santa Ana, CA 92704 Contact: Tom Wadden

Phone: (714) 540-5351 • Fax: (714) 545-2003 • Email: estimating@sukut.com

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Sukut Construction's listing of a Subcontractor in its bid to the agency is not to be construed as an acceptance of all the Subcontractor's conditions or exceptions included with Subcontractor's price quotes. Quotations must be valid for the same duration as specified by Owner for contract award.

Sukut Construction, LLC

An Equal Opportunity Employer



Reference Checks

7. 1. Reference Checks

Understanding the impact that the right experience has on project success, this section has been structured to demonstrate Sukut and Tetra Tech's mutual experience with the successful delivery of three project, similar to the COSD's Project. We will apply the knowledge gained from our past relevant projects to develop innovative solutions that benefit the COSD and ensure the safe delivery of a high-quality Project, on schedule, and within budget.

1. Altamont Landfill Compost Facility Grading and Drainage

Location: Livermore, CA

Owner / Reference: Waste Management of Alameda County, Inc. / Glen Roycroft / 415.497.1621 / groycroft@wm.com

Description: Sukut and Tetra Tech worked closely together to provide permitting, design, and construction support services for a composting facility at Waste Management's Altamont Landfill and Resource Recovery Facility (ALRRF). The site can accept a daily feedstock of up to 500 tons per day of green waste with food waste from residential and commercial sources. The material is actively composted by covered aerated static pile (CASP). Tetra Tech prepared design plans to provide ALRRF with options for facility location, bay sizing, piping and bay layout, stormwater and contact water collection and conveyance, and traffic and material processing patterns. Once in the construction phase, Sukut Construction worked closely with subcontractors to move in excess of 700,000 cubic yards of dirt and rock, and to construct a lined two-acre wastewater pond, as well as stormwater improvements to drain 10 acres of the paved active pad and a 27-acre earthen CASP curing pad.

Contract value:

Design - original \$ 200,000 / final \$199,810

Construction - original \$7,120,820 / final \$8,283,194

Dates:

Design - started 05/2014 / completed 05/2016

Construction - started 05/2017 / completed 12/2017

2. Prima Capistrano Greenery

Location: San Juan Capistrano, CA

Owner / Reference: Orange County Public Works Waste & Recycling / Kevin Oxford / 714.728.3042 / kevin.oxford@ocwr.ocgov.com

Description: Sukut and Tetra Tech worked closely together to provide permitting and construction level design for a 200-tpd open windrow composting facility located at the County of Orange's Prima Deshecha Landfill. Operational features included areas for feedstock receiving, composting, curing, screening / blending, storage and load out, as well as ancillary facilities. Tetra Tech responsibilities included site layout and preparation of grading, drainage, and stormwater management plans. Tetra Tech also prepared plans for operation and fire supply waterlines and relocation of 30 landfill gas wells within the facility footprint which is located over former refuse disposal areas. The design was successfully permitted through the San Diego RWQCB, local department of environmental health, the South Coast Air Quality Management District, and the local fire authority. Once in the construction phase, Sukut moved over 100,000 cubic yards of dirt and provided

almost 100,000 square feet of HDPE liner. Sukut also performed a number of site work items related to wet utilities, gas line piping, concrete work, landscaping, and over a half a million square feet in six-inch asphalt paving.

Contract value:

Design - original \$ 162,092 / final \$ 162,092

Construction - original \$ 3,994,000 / final \$4,341,664

Dates:

Design - started 08/2019 / completed 09/2020

Construction - started 05/2020 / completed 09/2020

3. FRB Bee Canyon Greenery

Location: Irvine, CA

Owner / Reference: Orange County Public Works Waste & Recycling / Kevin Hanson / 949.551-7110 / kevin.hanson@ocwr.ocgov.com

Description: Sukut and Tetra Tech worked closely together to provide permitting and construction level design of an open windrow composting facility located at the County of Orange's Frank R. Bowerman Landfill. The initial phase of the facility was designed to manage green waste materials currently delivered to the site (approximately 500 tpd). Operational requirements and facility characteristics of the facility included a feedstock receiving area, pre-processing area, composting area, curing area, compost screening/blending, storage and load-out, and ancillary facilities. The design accommodated two-phase construction. Phase 1A was designed so it could be constructed to facilitate immediate operation. Phase 1B reflected final build-out, accommodating the maximum footprint and tonnage throughput. Phase 1C will add a Covered Aerated Static Pile technology to the facility. Tetra Tech prepared bid-ready plans and specifications for site layout, grading, drainage and storm water management, operations and firewater supply, and electrical improvement. During the construction phases, Sukut performed over 740,000 cubic yards of earthwork, constructed a 784,000-square-foot asphalt compost deck, a water supply system, fire water system for Orange County Fire Authority, water tanks, lined storm water basin, and miscellaneous civil improvements for the compost greenery. Sukut also completed the re-routing power for the County's new pump system.

Contract value:

Design – original \$182,627 / final \$182,627

Construction - original \$ 5,877,366 / final \$6,045,879

Dates:

Design – started 11/2018/ completed 09/2020

Construction - started 04/2020/ completed 01/2021

ATTACHMENT I



Certification and Bond

ATTACHMENT I

CERTIFICATION AND BOND

DESIGN-BUILD PROPOSAL

- The undersigned The Design-Builder proposes and agrees, if this Proposal is accepted, to enter into an agreement with the City in the form included in the Contract Documents to perform the Work as specified or indicated in said Contract Documents entitled Organics Processing Facility.
- 2. The Design-Builder accepts all of the terms and conditions of the Contract Documents, including without limitation those in the RFP.
- 3. This Proposal will remain open for the period stated in the RFP unless otherwise required by law. The Design-Builder will enter into an agreement within the time and in the manner required in the RFP and will furnish the insurance certificates, Payment Bond, and Performance Bond required by the Contract Documents.
- 4. The Design-Builder has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality where the Work is to be performed, the legal requirements (federal, state and local laws, ordinances, rules, and regulations), and the conditions affecting cost, progress or performance of the Work and has made such independent investigations as The Design-Builder deems necessary.

To all the foregoing, and including all Proposal schedule(s) and information required of the Design-Builder contained in this Proposal Form, said The Design-Builder further agrees to complete the Work and Services required under the Contract Documents within the Contract Time stipulated in said Contract Documents, and to accept in full payment therefore the Contract Price based on the Total Proposal Price(s) named in the aforementioned Proposal schedule(s).

Dated:	April 26, 2022	
The Design-E	Builder: Sukut Construction, LLC	
Ву:	(Signature) Eddie Juarez	
Title:	Vice President	

PROPOSAL

DESIGN-BUILDER'S GENERAL INFORMATION

To the City of San Diego:

Pursuant to the "Request for Proposal", specifications, and requirements on file with the City Clerk. and subject to all provisions of the Charter and Ordinances of the City of San Diego and applicable laws and regulations of the United States and the State of California, the undersigned hereby proposes to furnish to the City of San Diego, complete at the prices stated herein, the items or services hereinafter mentioned. The undersigned further warrants that this proposal is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization. or corporation; that the proposal is genuine and not collusive or sham; that the proposer has not directly or indirectly induced or solicited any other proposer to put in a false or sham proposal, and has not directly or indirectly colluded, conspired, connived, or agreed with any proposer or anyone else to put in a sham proposal, or that anyone shall refrain from proposing; that the proposer has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anvone to fix the proposal price of the proposer or any other proposer, or to fix any overhead, profit, or cost element of the proposal price, or of that of any other proposer, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the proposal are true; and, further, that the proposer has not, directly or indirectly, submitted his or her proposal price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company, association, organization, proposal depository, or to any member or agent thereof to effectuate a collusive or sham proposal. The undersigned proposer(s) further warrants that proposer(s) has thoroughly examined and understands the entire Contract Documents (plans and specifications) and the Proposal Documents therefore, and that by submitting said Proposal Documents as its proposal, proposer(s) acknowledges and is bound by the entire Contract Documents, including any addenda issued thereto, as such Contract Documents incorporated by reference in the Proposal Documents.

IF A SOLE OWNER OR SOLE CONTRACTOR SIGN HERE:

(1)	Name under which business is conducted		
(2)	Signature (Given and surname) of proprietor _		
(3)	Place of Business (Street & Number)		
(4)	City and State		Zip Code
(5)	Telephone No	_ Facsimile No	
(6)	Email Address		
IF A PA	RTNERSHIP, SIGN HERE:		
(1)	Name under which business is conducted		

(2)	Name of each member of partnership, indi- (limited):	cate character of each partner, general or special
(3)	Signature (Note: Signature must be made b	
	Full Name and Character of partner	
(4)	Place of Business (Street & Number)	
(5)	City and State	Zip Code
(6)	Telephone No	Facsimile No
(7)	Email Address	
IF A CC	DRPORATION, SIGN HERE: (LLC)	
	Name under which business is conducted _	Sukut Construction, LLC
(2)	Signature, with official title of officer author	ized to sign for the corporation:
	(Signature) Eddie Juarez	NATE ZOIL
	(Printed Name)	STRU ORPGRA
	Vice President	63 = 4
	(Title of Officer)	NO YUNUS
		(Impress Corporate Seal Here)
(3)	Incorporated under the laws of the State of	California
(4)	Place of Business (Street & Number) 4010 V	V. Chandler Avenue
(5)	City and StateSanta Ana, CA	Zip Code <u>92704</u>
(6)	Telephone No	Facsimile No 714-545-2003
(7)	Email Address <u>estimating@sukut.com</u>	

THE FOLLOWING SECTIONS MUST BE FILLED IN BY ALL PROPOSERS:

In accordance with the "Request for Proposition of the following classification (s) to pe				tor's
LICENSE CLASSIFICATION A, B, Haz, C-21				_
LICENSE NO985106	EXPIRES _	July 31, 2023		_
DEPARTMENT OF INDUSTRIAL RELATIONS (DI	R) REGISTRA	ATION NUMBER:	1000001133	_
				_
This license classification must also be shown license classification on the proposal envelop		S (8)	3.8	show
TAX IDENTIFICATION NUMBER (TIN): _				_
E-Mail Address:estimating@sukut.com				_
THIS PROPOSAL MUST BE NOTARIZED BELO	W:			
I certify, under penalty of perjury, that the Contractor's license number, classification and				State
Signature	III/1988/8741188	_Title		
SUBSCRIBED AND SWORN TO BEFORE ME, TH	IIS	DAY	OF,	_•
Notary Public in and for the County of		, Stat	e of	_
(NOTARIAL SEAL)				

SEE ATTACHED NOTARIZATION

Organics Processing Facility Attachment I – Design-Builders General Information (Rev. Apr. 2018)

\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u>\$</u>
■ See Attached Document (Notary to cross out □ See Statement Below (Lines 1–6 to be complete) See Statement Below (Lines 1–6 to be complete)	lines 1-6 below) leted only by document signer[s], not Notary)
Signature of Document Signer No. 1	Signature of Document Signer No. 2 (if any)
A notary public or other officer completing this certi- document to which this certificate is attached, and no	ficate verifies only the identity of the individual who signed the of the truthfulness, accuracy, or validity of that document.
State of California	Subscribed and sworn to (or affirmed) before me
County of Orange	on this _26 day of _April , 20 _22 ,
	Data
	by
	(1)Eddie Juarez
	(and (a)
ARIEL VACA	(and (2) N/A), Name(s) of Signer(s)
Notary Public - California Orange County	rvarne(s) or Signer(s)
Commission # 2344823 My Comm. Expires Feb 2, 2025	proved to me on the basis of satisfactory evidence to be the person(s) who appeared before me.
	to so the potential who appeared before the.
	Signature While Was
	Signature of Notary Public
Seal	
Place Notary Seal Above	
	PTIONAL
	nis information can deter alteration of the document or his form to an unintended document.
Description of Attached Document	nis form to an unintended document.
•	Document Date:
Number of Pages: Signer(s) Other Than I	2 (VIII SANCO 18 4) - SAN

CERTIFICATIONS AND FORMS

The Proposer, by submitting its electronic proposal, agrees to and certifies under penalty of perjury under the laws of the State of California, that the certifications, forms and affidavits submitted as part of this bid are true and correct.

NON-COLLUSION AFFIDAVIT TO BE EXECUTED BY BIDDER AND SUBMITTED WITH BID UNDER 23 UNITED STATES CODE 112 AND PUBLIC CONTRACT CODE 7106

State of California County of San Diego

The bidder, being first duly sworn, deposes and says that he or she is authorized by the party making the foregoing bid that the bid is not made in the interest of, or on behalf of, any undisclosed person, partnership, company, association, organization, or corporation; that the bid is genuine and not collusive or sham; that the bidder has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid, and has not directly or indirectly colluded, conspired, connived, or agreed with any bidder or anyone else to put in a sham bid, or that anyone shall refrain from bidding; that the bidder has not in any manner, directly or indirectly, sought by agreement, communication, or conference with anyone to fix the bid price of the bidder or any other bidder, or to fix any overhead, profit, or cost element of the bid price, or of that of any other bidder, or to secure any advantage against the public body awarding the contract of anyone interested in the proposed contract; that all statements contained in the bid are true; and further, that the bidder has not, directly or indirectly, submitted his or her bid price or any breakdown thereof, or the contents thereof, or divulged information or data relative thereto, or paid, and will not pay, any fee to any corporation, partnership, company association, organization, bid depository, or to any member or agent thereof to effectuate a collusive or sham bid.

COVID-19 VACCINATION ORDINANCE CERTIFICATION OF COMPLIANCE

I hereby certify that I am familiar with the requirements of San Diego City Council Ordinance No. O-2022-53 Emergency Ordinance to Implement the City's Mandatory COVID-19 Vaccination Policy.

TERMS OF COMPLIANCE

The Mandatory COVID-19 Vaccination Policy, outlined in San Diego Ordinance O-21398 (Nov. 29, 2021), requires ALL City of San Diego (City) contractors, who interact with City employees while providing contracted services indoors in City facilities or while performing bargaining unit work while indoors, to be fully vaccinated against COVID-19, effective January 3, 2022, as a condition for provision or continued provision of contracted services.

- "City contractor" means a person who has contracted with the City of San Diego to provide public works, goods, services, franchise, or consultant services for or on behalf of the City, and includes a subcontractor, vendor, franchisee, consultant, or any of their respective officers, directors, shareholders, partners, managers, employees, or other individuals associated with the contractor, subcontractor, consultant, or vendor. "Person" means any natural person, firm, joint venture, joint stock company, partnership, association, club, company, corporation business trust or organization.
- 2. "Fully vaccinated" means a person has received, at least 14 days prior, either the second dose in a two-dose COVID-19 vaccine series or a single-dose COVID-19 vaccine, or otherwise meets the criteria for full vaccination against COVID-19 as stated in applicable public health guidance, orders, or law. Acceptable COVID-19 vaccines must be approved by the U.S. Food and Drug Administration (FDA) or authorized for emergency use by the FDA or the World Health Organization.
- Contractors must fully comply with the City's Mandatory COVID-19 Vaccination Policy, which may include a reporting program that tracks employee vaccination status.
- 4. Contractors must certify that members of their workforce, and subcontractors regardless of tier, who work at a City facility, are fully vaccinated and that the contractor has a program to track employee compliance.
- Contractors that have an Occupational Safety and Health Administration compliant testing program for members of their workforce, as a reasonable accommodation, may be considered for compliance.

Non-compliance with the City's Mandatory COVID-19 Vaccination Policy may result in termination of a contract for cause, pursuant to the City's General Terms and Provisions, Reference Standards, and the San Diego Municipal Code.

DRUG-FREE WORKPLACE

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-17 regarding Drug-Free Workplace as outlined in the WHITEBOOK, Section 5-1.3, "Drug-Free Workplace", of the project specifications, and that;

This company has in place a drug-free workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of subdivisions a) through c) of the policy as outlined.

AMERICANS WITH DISABILITIES ACT (ADA) COMPLIANCE CERTIFICATION

I hereby certify that I am familiar with the requirements of San Diego City Council Policy No. 100-4 regarding the Americans With Disabilities Act (ADA) outlined in the WHITEBOOK, Section 5-1.2, "California Building Code, California Code of Regulations Title 24 and Americans with Disabilities Act", of the project specifications, and that:

This company has in place workplace program that complies with said policy. I further certify that each subcontract agreement for this project contains language which indicates the subcontractor's agreement to abide by the provisions of the policy as outlined.

CONTRACTOR STANDARDS - PLEDGE OF COMPLIANCE

I declare under penalty of perjury that I am authorized to make this certification on behalf of the company submitting this bid/proposal, that as Contractor, I am familiar with the requirements of City of San Diego Municipal Code § 22.3004 regarding Contractor Standards as outlined in the WHITEBOOK, Section 5-1.4, ("Contractor Standards and Pledge of Compliance"), of the project specifications, and that Contractor has complied with those requirements.

I further certify that each of the Contractor's subcontractors has completed a Pledge of Compliance attesting under penalty of perjury of having complied with City of San Diego Municipal Code § 22.3004.

EQUAL BENEFITS ORDINANCE CERTIFICATION

I declare under penalty of perjury that I am familiar with the requirements of and in compliance with the City of San Diego Municipal Code § 22.4300 regarding Equal Benefits Ordinance.

EQUAL PAY ORDINANCE CERTIFICATION

Contractor shall comply with the Equal Pay Ordinance (EPO) codified in the San Diego Municipal Code (SDMC) at section 22.4801 through 22.4809, unless compliance is not required based on an exception listed in SDMC section 22.4804.

Contractor shall require all of its subcontractors to certify compliance with the EPO in their written subcontracts.

Contractor must post a notice informing its employees of their rights under the EPO in the workplace or job site.

By signing this Contract with the City of San Diego, Contractor acknowledges the EPO requirements and pledges ongoing compliance with the requirements of SDMC Division 48, section 22.4801 et seq., throughout the duration of this Contract.

PRODUCT ENDORSEMENT

I declare under penalty of perjury that I acknowledge and agree to comply with the provisions of City of San Diego Administrative Regulation 95.65, concerning product endorsement. Any advertisement identifying or referring to the City as the user of a product or service requires the prior written approval of the City.

CONTRACTOR'S CERTIFICATION OF PENDING ACTIONS

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of all instances within the past 10 years where a complaint was filed or pending against the Bidder in a legal or administrative proceeding alleging that Bidder discriminated against its employees, subcontractors, vendors or suppliers, and a description of the status or resolution of that complaint, including any remedial action taken.

CHECK ON	IE BOX ON	ILY.				
X	a o	complaint or p		a legal administi	rative proceed	s NOT been the subject of ding alleging that Bidder oliers.
	cor dis sta	mplaint or pe criminated aga	nding action in a inst its employees, s on of that complain	legal administra subcontractors, ve	ative proceed endors or supp	has been the subject of a ing alleging that Bidder pliers. A description of the taken and the applicable
	DATE OF	LOCATION	DESCRIPTION OF CLAIM	Litigation (Y/N)	Status	RESOLUTION/REMEDIAL -
_						
-						
					7/8 V 117 PROMPT AND REAL PROPERTY.	100700000000000000000000000000000000000
Contractor	Name:_S	ukut Construc	tion, LLC			
Certified B	y <u>I</u>	Eddie Juarez	Name		Title Vice I	President
					Date April	26, 2022

USE ADDITIONAL FORMS AS NECESSARY

Signature

BIDDER/PROPOSER INFORMATION

Legal Name	DBA	
Sukut Construction, LLC	kut Construction, LLC	
Street Address City	State	Zip
4010 W. Chandler Avenue	CA	92704
Contact Person, Title	Phone	Fax
Eddie Juarez, Vice President	714-540-5351	714-545-2003

Provide the name, identity, and precise nature of the interest* of all persons who are directly or indirectly involved** in this proposed transaction (SDMC § 21.0103).

- * The precise nature of the interest includes:
 - · the percentage ownership interest in a party to the transaction,
 - the percentage ownership interest in any firm, corporation, or partnership that will receive funds from the transaction,
 - the value of any financial interest in the transaction,
 - any contingent interest in the transaction and the value of such interest should the contingency be satisfied, and
 - any philanthropic, scientific, artistic, or property interest in the transaction.
- ** Directly or indirectly involved means pursuing the transaction by:
 - · communicating or negotiating with City officers or employees,
 - submitting or preparing applications, bids, proposals or other documents for purposes of contracting with the City, or
 - directing or supervising the actions of persons engaged in the above activity.

Vice President
Employer (if different than Bidder/Proposer)
Same as Above

Name	Title/Position
Nicholas Osborne	Vice President/Chief Estimator
City and State of Residence	Employer (if different than Bidder/Proposer)
Laguna Niguel, CA	Same as Above
Interest in the transaction	here the second
1% Ownership in Corporation	

* Use Additional Pages if Necessary *

Under penalty of perjury under the laws of the State of California, I certify that I am responsible for the completeness and accuracy of the responses contained herein, and that all information provided is true, full and complete to the best of my knowledge and belief. I agree to provide written notice to the Mayor or Designee within five (5) business days if, at any time, I learn that any portion of this Mandatory Disclosure of Business Interests Form requires an updated response. Failure to timely provide the Mayor or Designee with written notice is grounds for Contract termination.

Eddie Juarez, Vice President		April 26, 2022	
Print Name, Title	Signature	Date	

BIDDER/PROPOSER INFORMATION

Legal Name	DBA	
Sukut Construction, LLC	N/A	
Street Address City	State Zip	
4010 W. Chandler Avenue	CA 92704	
Contact Person, Title	Phone Fax	
Eddie Juarez, Vice President	714-540-5351 714-545-200	

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 - directing or supervising the actions of persons engaged in the above activity.

Title/Position		
Project Manager		
Employer (if different than Bidder/Proposer)		
Same as Above		

Name	Title/Position
Tom Wadden	Estimator/Project Manager
City and State of Residence	Employer (if different than Bidder/Proposer)
Norco, CA	Same as Above
Interest in the transaction	

* Use Additional Pages if Necessary *

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Eddie Juarez, Vice President		April 26, 2022
Print Name, Title	Signature	Date

BIDDER/PROPOSER INFORMATION

Legal Name	DBA
Sukut Construction, LLC	N/A
Street Address City	State Zip
4010 W. Chandler Avenue	CA 92704
Contact Person, Title	Phone Fax
Eddie Juarez, Vice President	714-540-5351 714-545-2003

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 - the percentage ownership interest in any firm, corporation, or partnership that will receive funds from the transaction,
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 - submitting or preparing applications, bids, proposals or other documents for purposes of contracting with the City, or
 - directing or supervising the actions of persons engaged in the above activity.

Name	Title/Position
Charles Malis	Project Engineer
City and State of Residence	Employer (if different than Bidder/Proposer)
Murrieta, CA	Same as Above
Interest in the transaction	ı

Name	Title/Position
Vaheh Aloianmel	Project Engineer
City and State of Residence	Employer (if different than Bidder/Proposer)
Irvine, CA	Same as Above
Interest in the transaction	THE PARTY OF THE P

* Use Additional Pages if Necessary *

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Eddie Juarez, Vice President		April 26, 2022
Print Name, Title	Signature	Date

BIDDER/PROPOSER INFORMATION

Legal Name	DBA
Sukut Construction, LLC N/A	
Street Address City	State Zip
4010 W. Chandler Avenue	CA 92704
Contact Person, Title	Phone Fax
Eddie Juarez, Vice President	714-540-5351 714-545-200

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- * The precise nature of the interest includes:
 - the percentage ownership interest in a party to the transaction,
 - the percentage ownership interest in any firm, corporation, or partnership that will receive funds from the transaction,
 - · the value of any financial interest in the transaction,
 - any contingent interest in the transaction and the value of such interest should the contingency be satisfied, and
 - any philanthropic, scientific, artistic, or property interest in the transaction.
- ** Directly or indirectly involved means pursuing the transaction by:
 - communicating or negotiating with City officers or employees,
 - submitting or preparing applications, bids, proposals or other documents for purposes of contracting with the City, or
 - directing or supervising the actions of persons engaged in the above activity.

Name	Title/Position	
Yevgenya Koch	Marketing Manager	
City and State of Residence	Employer (if different than Bidder/Proposer)	
Lake Forest, CA	Same as Above	
Interest in the transaction		

Name	Title/Position	
Ariel Vaca	Estimating Administrator Supervisor	
City and State of Residence	Employer (if different than Bidder/Proposer)	
Costa Mesa, CA	Same as Above	
Interest in the transaction		
N/A - 0% Ownership in Corporation		

* Use Additional Pages if Necessary *

Under penalty of perjury under the laws of the State of California, I certify that I am responsible for the completeness and accuracy of the responses contained herein, and that all information provided is true, full and complete to the best of my knowledge and belief. I agree to provide written notice to the Mayor or Designee within five (5) business days if, at any time, I learn that any portion of this Mandatory Disclosure of Business Interests Form requires an updated response. Failure to timely provide the Mayor or Designee with written notice is grounds for Contract termination.

Eddie Juarez, Vice President		April 26, 2022	
Print Name, Title	Signature	Date	_

DEBARMENT AND SUSPENSION CERTIFICATION

PRIME CONTRACTOR

FAILURE TO COMPLETE AND SUBMIT AT TIME OF BID SHALL RENDER BID NON-RESPONSIVE

EFFECT OF DEBARMENT OR SUSPENSION

To promote integrity in the City's contracting processes and to protect the public interest, the City shall only enter into contracts with responsible bidders and contractors. In accordance with San Diego Municipal Code §22.0814 (a): *Bidders* and *contractors* who have been *debarred* or *suspended* are excluded from submitting bids, submitting responses to requests for proposal or qualifications, receiving *contract* awards, executing *contracts*, participating as a *subcontractor*, employee, agent or representative of another *person* contracting with the City.

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of Names of the Principal Individual owner(s).

The names of all persons interested in the foregoing proposal as Principals are as follows:

NAME	TITLE
Steve Yurosek	President/CEO
Nicholas Osborne	Vice President/Chief Estimator
Lawrence Damore	Vice President
Oren Post	CFO

IMPORTANT NOTICE: If Bidder or other interested person is a corporation, state secretary, treasurer, and manager thereof; if a co-partnership, state true name of firm, also names of all individual co-partners composing firm; if Bidder or other interested person is an individual, state first and last names in full.

The Bidder, under penalty of perjury, certifies that, except as noted below, he/she or any person associated therewith in the capacity of owner, partner, director, officer, manager:

- Is not currently under suspension, debarment, voluntary exclusion, or determination of ineligibility by any Federal,
 State or local agency;
- has not been suspended, debarred, voluntarily excluded or determined ineligible by any Federal, State or local agency within the past 3 years;
- · does not have a proposed debarment pending; and
- has not been indicted, convicted, or had a civil judgment rendered against it by a court of competent jurisdiction in any matter involving fraud or official misconduct within the past 3 years.

If there are any exceptions to this certification, insert the exceptions in the following space.

	N/A	
applies, initiatin	be considered in determining bidder responsibing agency, and dates of action. ne: Sukut Construction, LLC	ility. For any exception noted above, indicate below to whom
Certified By	Eddie Juarez	
	Name	Date 08/03/2022

it

NOTE: Providing false information may result in criminal prosecution or administrative sanctions.

DEBARMENT AND SUSPENSION CERTIFICATION

SUBCONTRACTORS, SUPPLIERS AND MANUFACTURERS

TO BE COMPLETED BY BIDDER

FAILURE TO COMPLETE AND SUBMIT AT TIME OF BID SHALL RENDER BID NON-RESPONSIVE

Names of the Principal individual owner(s)

As part of its bid or proposal (Non-Price Proposal in the case of Design-Build contracts), the Bidder shall provide to the City a list of Names of the Principal Individual owner(s) for their subcontractor/supplier/manufacturers.

Please	e indicate if principal owner is ser	ving in the capac	ity of subcontractor ,	supplier, and/or	manufacturer:	
	SUBCONTRACTOR		SUPPLIER		MANUFACTURER	
NAME				TITLE		
	SUBCONTRACTOR		SUPPLIER		MANUFACTURER	
	NAME			TITLE		
	SUBCONTRACTOR	- 🗸 ¬	SUPPLIER	\	MANUFACTURER	
	AVIE		IAC		U	
	SUBCONTRACTOR		SUPPLIER		MANUFACTURER	
	NAME			TITLE		
Contra	actor Name:					
Certifi	ed By			Title		
		Name				
				Date		

Signature
USE ADDITIONAL FORMS AS NECESSARY

Company Name	ТҮРЕ	Conctact	Title
Accent Engineering	Subcontractor	Rodney Thompson	Owner
Amber Steel Co.	Subcontractor	Kriss Lewis	Owner
Cosco Fire Protection	Subcontractor	Keith Fielding	CEO
De La Fuente Construction, Inc.	Subcontractor	Jorge Diaz De La Fuente	Owner
Hankins Construction Inc.	Subcontractor	Deborah Hankins	Owner
In-Line Construction, Inc.	Subcontractor	David Ortiz	President
K Company	Trucking	Dale Kissinger	Owner
K Company	Supplier	Daile Kissinger	Owner
Overhead Door Company of Inland Empire DBA GMAT, Inc.	Subcontractor	Ryan Sherrett	CEO
Rancho Land Company	Subcontractor - Professional Services	Casey Lynch	Owner
Suffolk Construction	Subcontractor	John Fish	CEO
Superior Ready Mix Concrete, LP	Supplier	Richard Brouwer	CEO
Poly Tek	Supplier	Patrick Sangi	Owner
Sustainable Generation	Supplier	Brett Hoyt	Vice President
Core-Rosion	Supplier	Sean Ireland	CEO
Semper Fuel, LLC	Supplier	Charlie Adams	Owner
Tetra Tech BAS	Subcontractor	Kelly McGregor	President
West River River	Suppler	Pete Savage	President/CEO

SUBCONTRACTOR LISTING

(OTHER THAN FIRST TIER)

Pursuant to California Senate Bill 96 and in accordance with the requirements of Labor Code sections 1771.1 and 1725.5, by submitting a bid or proposal to the City, Contractor is certifying that he or she has verified that all subcontractors used on this public work project are registered with the California Department of Industrial Relations (DIR). The Bidder is to list below the name, address, license number, DIR registration number of any (known tiered subcontractor) - who will perform work, labor, render services or specially fabricate and install a portion [type] of the work or improvement pursuant to the contract. If none are known at this time, mark the table below with non-applicable (N/A).

** USE ADDITIONAL FORMS AS NECESSARY **