APPROVED 7-0

2000 Main Street,
Huntington Beach, CA
92648

City of Huntington Beach

File #: 22-481 **MEETING DATE:** 6/7/2022

REQUEST FOR HOUSING AUTHORITY ACTION

SUBMITTED TO: Honorable Chair and Board Members

SUBMITTED BY: Sean Joyce, Interim Executive Director

VIA: Ursula Luna-Reynosa, Director of Community Development

PREPARED BY: Ursula Luna-Reynosa, Director of Community Development

Subject:

Authorize and direct the Executive Director to execute an Exclusive Negotiating Agreement with Jamboree Housing Corporation to establish an exclusive negotiating period to determine the feasibility of Developer's acquisition of 17642 Beach Boulevard for a mixed-use project consisting of a homeless shelter, affordable housing and various ancillary uses

(HEALING CENTER)

Statement of Issue:

The Housing Authority Board is requested to authorize and direct the Executive Director to execute an Exclusive Negotiating Agreement (the "Agreement") with Jamboree Housing Corporation (the "Developer") for the property located at 17642 Beach Boulevard (the "Property"). The purpose of this Agreement is to establish a period during which the Developer may perform studies and investigations and other due diligence activities within the Property and other feasibility and financial analysis to determine the feasibility of Developer's acquisition of the Property and the City and Developer shall exclusively negotiate with each other in an attempt to agree on the terms of an affordable housing agreement, including a ground lease, fee-simple acquisition, or other disposition (an "Affordable Housing Agreement").

Financial Impact:

There is no financial impact associated with this request. If staff and the Developer agree to terms of an Affordable Housing Agreement, staff will return to the Housing Authority for consideration of such agreement and any fiscal impacts will be identified at that time.

Recommended Action:

Authorize and direct the City Manager to execute the "Exclusive Negotiating Agreement" with Jamboree Housing Corporation, in a form approved by the City Attorney.

Alternative Action(s):

Do not approve the recommended action.

Analysis:

Background

The Huntington Beach Housing Authority (the "Housing Authority") was established in 2011 per Health & Safety Code Sections 34200 et. seq. for the purpose of addressing a shortage of safe and sanitary dwelling accommodations in the City available to persons of low income. In 2019 and 2020, the Housing Authority acquired two adjacent parcels for a total of 1.6 acres to facilitate an affordable housing project. Since acquisition, the Property has been improved with a temporary homeless shelter (the "Navigation Center").

On March 22, 2022 a Request for Qualifications ("RFQ") (attached as Exhibit B to the Agreement) was released soliciting qualification statements to identify qualified development partners to develop, finance, and manage a new mixed-use development consisting of a homeless shelter, a sobering center, support services (physical and behavioral healthcare, housing navigation and employment), and transitional and low-income housing at various income levels.

The Property is located within the Neighborhood Boulevard segment of the Beach and Edinger Corridors Specific Plan ("BECSP"). This segment along Beach Boulevard (Hwy 39) is characterized by a significant amount of ageing commercial strip development, including auto-oriented uses, such as car dealerships. Development types are dominated by one-story, single-loaded commercial buildings surrounded by surface parking lots with little landscaping or pedestrian amenities. The planning approach to this area is to facilitate long-term transition from strip retail to uses more focus on nearby populations, featuring development types that retain visibility to motorists on Beach Boulevard, while providing a more visually attractive and comfortable pedestrian environment. Neighborhood-serving and hospital-serving retail and services, corner/crossroads located retail, and office and office-medical are encouraged to take advantage of the proximity to the Huntington Beach Hospital and its related cluster of medical services. In-fill residential uses are also permitted throughout this segment.

Since acquiring the Site in 2020, the Housing Authority has worked with the City and County of Orange to facilitate the Navigation Center and implemented the Be Well Mobile Response program. These accomplishments are a testament to the City Council's aspirations to address homelessness in a unique and meaningful way. The Housing Authority desires a development partner to facilitate in creating a distinct facility to support individuals from street to home. The goal of this facility is to provide space that allows the engagement of unhoused individuals and create a path from homelessness to housing; while addressing the underlying barriers that have prevented housing in the past. The desired continuum of services to be provided on site include a combination of shelter operations, a sobering center, behavioral and physical healthcare, housing navigation, and employment services.

Assessment of Qualifications

Respondents to the RFQ were asked to submit information in the following categories:

- Organizational Structure
- Firm's Experience

- Relevant Experience
- Financial Capacity

Respondents were required to identify their development team and provide biographies for key development staff. In addition, they were required to provide a narrative about their development approach for this particular project.

The evaluation process was designed to select a respondent, not based on the least cost, rather the respondent with the best combination of attributes (experience, financial capacity/ ability to secure funding, and successful partnerships with service providers). The Developer submitted a qualification statement (attached as Exhibit C) that demonstrated strong partnerships, experience and financial capacity. The Developer has partnered with Mercy House and Be Well which already have successful partnerships with the City. Equally important, the Developer effectively communicated their desire to be a partner that is equally committed to assisting the City in making significant impacts toward the well-being of our most vulnerable community members.

Exclusive Negotiating Agreement

Staff is seeking Housing Authority authorization and direction for the Executive Director to execute the Agreement with the Developer for 360 days during which the Developer may perform studies and investigations and other due diligence activities within the Property and other feasibility and financial analysis to determine the feasibility of Developer's acquisition of the Property and the City and Developer shall exclusively negotiate with each other in an attempt to agree on the terms of an affordable housing agreement, including a fee-simple acquisition, ground lease, or other disposition. Approval of the Agreement does not obligate the Housing Authority to enter into an Affordable Housing Agreement or any other agreement with the Developer.

During the negotiating period the Developer will conduct due diligence to fully understand the condition of the Property and any constraints to development. Collaborative discussions between the City and Developer will occur related to design and cost of a potential development project, including long-term operating costs. The Developer will also explore funding sources and financing options. Successful negotiations will conclude in agreed upon business terms to be incorporated into an Affordable Housing Agreement. Such agreement will be brought to the Housing Authority Board for consideration along with project details including concept design, operation plan, estimated total project cost for construction, projected costs for operation, sources of funds (include Housing Authority and City contributions), Developer's responsibilities, etc.

Environmental Status:

Pursuant to CEQA Guidelines Section 15378(b)(5), administrative activities of governments that will not result in direct or indirect physical changes in the environment do not constitute a project. If negotiations are successful an Affordable Housing Agreement will be brought forward for the Housing Authority's consideration and an environmental assessment will be conducted at that time.

Strategic Plan Goal:

Economic Development & Housing
Homelessness Response

Attachment(s):

1. Exclusive Negotiating Agreement
2. Exclusive Negotiating Agreement Exhibits

EXCLUSIVE NEGOTIATING AGREEMENT

THIS EXCLUSIVE NEGOTIATING AGREEMENT (the "Agreement") is entered into as of June 7th, 2022 (the "**Effective Date**"), by and between the **HUNTINGTON BEACH HOUSING AUTHORITY**, a public body, corporate and politic ("**Authority**"), and **JAMBOREE HOUSING CORPORATION,** a California corporation ("**Developer**"). Authority and Developer may be individually referred to herein as a "**Party**" and collectively referred to herein as the "**Parties**".

RECITALS

The following recitals are a substantive part of this Agreement.

A. Authority is the owner of fee title to certain real property commonly described as 17642 Beach Boulevard, in the City of Huntington Beach ("City"), County of Orange, State of California, consisting of Assesor Parcel Numbers 167-472-08; and -09, shown on Exhibit A and incorporated by this reference (the "Property"). The Property is approximately 1.6 acres located within the Beach and Edingers Corridor Specific Plan ("BECSP") – Affordable Housing Overlay and improved with a temporary homeless shelter.

B. Authority desires to explore the possibility of repurposing the Property and issued a *Request for Qualifications for Real Estate Developers* (the "**RFQ**") on March 22, 2022, (attached as Exhibit B) in order to identify a qualified development partner to develop, finance, and manage a new mixed-use development consisting of a permanent homeless shelter, a sobering center, support services (physical and behavioral healthcare, housing navigation, and employment), and transitional and low-income housing at various income levels (a "**Healing Center**").

C. Developer is an experienced developer of affordable and supportive rental housing development. Developer submitted a response to the RFQ (attached as Exhibit C), including proposed service partners **Mercy House**, a homeless shelter, housing and supportive services provider and **Be Well**, a behavioral health treatment and services organization.

D. Authority found the Developer to be a qualified partner and communicated the Developer had been selected as the recommended developer in the RFQ process.

E. Developer is interested in negotiating with Authority for purposes of determining the feasibility, and potential terms, for Developer's acquisition of a leasehold or fee-simple interest in the Property.

F. The purpose of this Agreement is to establish a period during which the Developer may perform studies and investigations and other due diligence activities within the Property and other feasibility and financial analysis to determine the feasibility

of Developer's acquisition of the Property for a Healing Center and the Parties shall exclusively negotiate with each other in an attempt to agree on the terms of an affordable housing agreement, including a fee-simple acquisition, ground lease, or other disposition (an "**Affordable Housing Agreement**").

NOW THEREFORE, the Parties mutually agree as follows:

1. Agreement to Negotiate in Good Faith. Authority and Developer agree that for the term of the "Negotiating Period" (as defined in Section 2 hereof) each Party shall diligently and in good faith attempt to negotiate the terms of an Affordable Housing Agreement for consideration by the Authority. During the Negotiating Period, Authority agrees to negotiate exclusively with Developer, and not to negotiate with any other person or entity, with regard to the sale or other disposition of the Property.

2. Negotiating Period. The negotiating period (the "**Negotiating Period**") shall be for a period of three hundred sixty (360) days, commencing on the Effective Date. The Executive Director of Authority, or his or her designee, shall have the right, in his or her sole discretion, to extend the Negotiating Period for up to an additional one hundred eighty (180) days, resulting in a total potential Negotiating Period of up to Five Hundred Forty (540) days. Upon the expiration of the Negotiating Period, or upon the Parties' signing an Affordable Housing Agreement for the Property, this Agreement shall automatically terminate, without further written notice or action by either Party. Upon such automatic termination, the Parties acknowledge and agree that neither Party shall have any further rights or remedies as to the other, except as specifically set forth herein.

3. Due Diligence. During the Negotiating Period, Developer and its employees, contractors, agents, representatives, architects, engineers and consultants (collectively, the "**Developer Entities**"), at Developer's sole cost and expense, shall have the right to enter and inspect the Property, make surveys and conduct such soils, engineering, hazardous or toxic material, pollution, seismic or other tests, studies and investigation as Developer may require (collectively, the "**Inspections**"), pursuant to the terms of this Section 3.

(a) Developer shall cause the Inspections to be conducted during regular business hours (7:00 a.m. to 6:00 p.m., Monday through Friday) upon not less than twenty-four (48) hours' prior written notice to Authority. Authority may have a representative present at any Inspections of the Property.

(b) In conducting its Inspections at the Property, Developer and the Developer Entities shall: (i) not damage any part of the Property (other than invasive testing conducted in accordance with Sections 3(c) and (d) below) or any personal property owned or held by any third party; (ii) promptly repair any damage to the Property resulting from the entry by Developer or the Developer Entities or from any such Inspections; (iii) comply with all applicable laws; and (iv) not permit any liens to attach to the Property by reason of the exercise of Developer's rights hereunder.

(c) Notwithstanding anything to the contrary in this Section 3, Developer

shall not undertake any invasive testing, including, without limitation, taking samples of any kind or type from the Property, without Authority's prior written approval, which approval shall not be unreasonably withheld, conditioned, or delayed.

(d) Promptly upon completion of each Inspection, Developer shall cause the portion of the Property subject to such Inspection to be restored to the condition existing immediately prior to such Inspection, to the extent reasonably practicable. Developer shall provide Authority, at no additional charge and without representation or warranty of any kind, with copies of non-proprietary reports prepared by third parties for Developer in connection with the Inspections within three (3) business days of Developer's receipt of the same.

(e) Developer hereby indemnifies, defends, and holds harmless Authority and City and Authority's and City's officers, officials, members, employees, directors, agents, representatives, contractors, and volunteers (collectively, the "Authority and **City and Authority and City Personnel**"), and the Property, free and harmless from and against any and all claims, damages, liabilities, demands, injury, actions, liens, stop notices, losses, costs and expenses (including without limitation reasonable attorneys' fees and court costs) to the extent arising from or as a result of the conducting of Inspections, except to the extent caused by an indemnified party's active negligence, recklessness or intentional misconduct.

(f) Developer's obligations under this Section 3 shall survive the expiration or termination of this Agreement.

4. Insurance. Without limiting Developer's indemnification obligations under this Agreement, Developer shall procure and maintain, at its sole cost and for the duration of this Agreement, insurance coverage as provided below, against all claims for injuries against persons or damages to property which may arise from or in connection with the performance of the work hereunder by Developer and/or the Developer Entities, including without limitation Developer's conducting of the Inspections. In the event that Developer subcontracts any portion of the work, the contract between Developer and such subcontractor shall require the subcontractor to maintain the same types (with the same endorsements) and amounts of insurance that Developer is required to maintain pursuant to this Section.

A. Commercial General Liability Insurance which affords coverage at least as broad as Insurance Services Office "occurrence" form CG 00 01 including completed operations and contractual liability, with limits of liability of not less than $1,000,000 per occurrence and $2,000,000 annual aggregate for liability arising out of Developer's performance of this Agreement, including without limitation Developer's conducting of the Inspections. Such insurance shall be endorsed to:

(1) Name the Authority/City and Authority/City Personnel as additional insureds for claims arising out of Developer's performance of this Agreement, including without limitation Developer's conducting of the Inspections.

(2) Provide that the insurance is primary and non-contributing with any other valid and collectible insurance or self-insurance available to Authority/City.

B. Automobile Liability Insurance with a limit of liability of not less than $1,000,000 each occurrence and $1,000,000 annual aggregate. Such insurance shall include coverage for all "owned," "hired" and "non-owned" vehicles, or coverage for "any auto." Such insurance shall be endorsed to:

(1) Name the Authority/City and City Personnel as additional insureds for claims arising out of Developer's performance of this Agreement, including without limitation Developer's conducting of the Inspections.

(2) Provide that the insurance is primary and non-contributing with any other valid and collectible insurance or self-insurance available to Authority/City.

C. Workers' Compensation Insurance in accordance with the Labor Code of California and covering all employees of Developer providing any service in the performance of this Agreement. Such insurance shall be endorsed to waive the insurer's right of subrogation against the Authority/City Personnel.

D. Evidence of Insurance: Developer shall provide to Authority/City a Certificate(s) of Insurance evidencing such coverage, together with copies of the required policy endorsements, no later than five (5) business days prior to commencement of any inspections and prior to the expiration of any policy. ***Statements on an insurance certificate will not be accepted in lieu of the actual endorsements required.*** Coverage shall not be suspended, voided, cancelled, reduced in coverage or in limits, non-renewed, or materially changed for any reason, without thirty (30) days prior written notice thereof given by the insurer to Authority by U.S. mail, or by personal delivery, except for nonpayment of premiums, in which case ten (10) days prior notice shall be provided.

E. Acceptability of Insurers. Each policy shall be from a company with current A.M. Best's rating of A- VII or higher and authorized to do business in the State of California, or otherwise allowed to place insurance through surplus lines brokers under applicable provisions of the California Insurance Code or any federal law. Any other rating must be approved in writing by Authority.

5. No Predetermination of City Discretion. The Parties acknowledge and agree that nothing in this Agreement in any respect does or shall be construed to affect or prejudge the exercise of Authority/City's discretion concerning the consideration of an Affordable Housing Agreement. The Parties do not intend for this Agreement to be an Affordable Housing Agreement, development agreement, or other agreement for the lease or other conveyance, or the development, of the Property. The Parties acknowledge and agree that they have not agreed upon the essential terms of the subject

matter of a transaction, and that such essential terms will be the subject matter of further negotiations. The Parties acknowledge and agree that any final agreement, if an agreement is reached, would be in the form of an Affordable Housing Agreement, and any such Affordable Housing Agreement would not be effective until it has been considered and formally approved by the Huntington Beach Housing Authority Board of Directors and Developer, and thereafter has been executed by authorized representatives of each of the Parties. Notwithstanding anything in this Agreement to the contrary, Authority does not intend by this Agreement to commit to a definite course of action with respect to the Property, and Authority retains full discretion with respect to (i) the Property, (ii) an Affordable Housing Agreement, (iii) any determination under the California Environmental Quality Act of 1970, Public Resources Code Section 21000, *et seq.* ("**CEQA**") with respect to the consideration of an Affordable Housing Agreement and/or any proposed development of the Property.

6. Costs and Expenses. Each Party shall be responsible for its own costs and expenses in connection with any activities and negotiations undertaken in connection with the performance of its obligations under this Agreement.

7. Lead Negotiators. The Executive Director, or his or her designee, shall be the lead negotiator for the Authority with respect to the subject matter of this Agreement. The Chief Development Officer of Developer, or his or her designee, shall be the lead negotiator for Developer with respect to the subject matter of this Agreement.

8. Change in Developer. The qualifications of Developer are of particular interest to Authority. Consequently, with the exception of an "Affiliate" (as defined below), no person or entity, whether a voluntary or involuntary successor of Developer, shall acquire any rights or powers under this Agreement, nor shall Developer assign all or any part of this Agreement, without the prior written approval of Authority. Any such approval by Authority may be granted, withheld or denied at Authority's sole and absolute discretion. Any other purported transfer, voluntarily or by operation of law, shall be absolutely null and void and shall confer no rights whatsoever upon any purported assignee or transferee. As used in this Agreement, the term "**Affiliate**" means any person or entity directly or indirectly, through one or more intermediaries, controlling, controlled by or under common control with Developer. The term "control" as used in the immediately preceding sentence, means, with respect to a person or entity that is a corporation, the right to the exercise, directly or indirectly, of more than fifty percent (50%) of the voting rights attributable to the shares of the controlled corporation, and, with respect to a person or entity that is not a corporation, the possession, directly or indirectly, of the power to direct or cause the direction of the management or policies of the controlled person or entity.

9. Property Documents; Authority Cooperation. Within fifteen (15) days after the Effective Date, Authority shall provide or cause to be provided to Developer all documents relating to the physical or environmental condition of the Property (including, but not limited to, environmental, property physical condition, geological studies, engineering and structural analyses, and geotechnical reports and soil tests and analyses) to the extent reasonably known to be in the Authority's or City's possession.

10. Address for Notices. Any notices pursuant to this Agreement shall be in writing and delivered (i) in person, (ii) by reputable overnight delivery service that provides a receipt with the time and date of delivery, such as Federal Express, or (iii) by United States Mail, certified or registered, postage prepaid, return receipt requested, to the following addresses:

To Authority:	Huntington Beach Housing Authority 2000 Main Street Huntington Beach, CA 92648 Attn.: Executive Director
With a copy to:	City of Huntington Beach 2000 Main Street Huntington Beach, CA 92648 Attn: City Attorney
To Developer:	Jamboree Housing Corporation 17701 Cowan, Suite 200 Irvine, CA 92614 Attn: Laura Archuleta, CEO
With a copy to:	Rutan & Tucker, LLP 18575 Jamboree Road 9th Floor Irvine, CA 92612 Attn: Pat McCalla

Any Party may designate a different address for itself by notice similarly given. Any notice, demand or document so given, delivered or made by United States mail, shall be deemed to have been given seventy-two (72) hours after the same is deposited in the United States mail as registered or certified mail, addressed as above provided, with postage thereon fully prepaid. Any notice, demand or document delivered by overnight delivery service shall be deemed complete upon actual delivery or attempted delivery, provided such attempted delivery is made on a business day. Any such notice, demand or document not given by registered or certified mail or by overnight delivery service as aforesaid shall be deemed to be given, delivered or made upon receipt of the same by the Party to whom the same is to be given or delivered.

11. Default. Failure by either Party to negotiate in good faith or to perform any other of its obligations as provided in this Agreement shall constitute an event of default under this Agreement. The non-defaulting Party shall give written notice of a default to the defaulting Party, specifying the nature of the default and the action required to cure the default. If the default remains uncured fifteen (15) days after the date of such notice,

the non-defaulting Party may exercise the remedies set forth in Section 12 of this Agreement.

12. Remedies for Breach of Agreement. In the event of an uncured default under this Agreement, the sole remedies of the non-defaulting Party shall be to (a) terminate this Agreement, (b) institute an action for specific performance of this Agreement, or (c) institute legal action to recover actual damages for the default (limited to actual, documented out-of-pocket costs incurred by the non-defaulting Party as a result of such default). Following the termination of this Agreement, neither Party shall have any further rights, remedies or obligations under this Agreement, except as specifically set forth herein. Neither Party shall have any liability to the other for monetary damages for failure to reach agreement on an Affordable Housing Agreement, and each Party hereby waives and releases any such rights or claims it may otherwise have at law or at equity. The Parties' rights and obligations under this Section 12 shall survive the expiration or termination of this Agreement.

13. Entire Agreement. This Agreement constitutes the entire understanding and agreement of the Parties, integrates all of the terms and conditions mentioned herein or incidental hereto, and supersedes all negotiations or previous agreements between the Parties or their predecessors in interest with respect to all or any part of the subject matter hereof.

14. Time of Essence. Time is of the essence of every portion of this Agreement in which time is a material part.

15. Agreement Does Not Constitute Development Approval. City and Authority reserve final discretion and approval as to any proposed development of the Property and any Affordable Housing Agreement and all proceedings and decisions in connection therewith. This Agreement shall not be construed as a grant of development rights or land use entitlements to construct a Healing Center or any other project on the Property. All design, architectural, and building plans for any proposed development shall be subject to the review and approval of City and any other Federal, State or local entity with jurisdiction over the Property and/or proposed development. By its execution of this Agreement, Authority is not committing itself to or agreeing to undertake any disposition of the Property to Developer, or any other acts or activities requiring the subsequent independent exercise of discretion by City or any agency or department thereof.

16. Governing Law. This Agreement shall be construed in accordance with the internal laws of the State of California, without regard to conflict of law principles.

17. Amendments. This Agreement may not be altered, amended, changed, waived, terminated or modified in any respect or particular unless the same shall be in writing and signed by the Parties.

18. Implementation of Agreement. The Authority shall maintain authority to implement this Agreement through the Executive Director (or his or her designee). The Executive Director shall have the authority to make approvals, waive provisions and/or

enter into certain amendments of or implementing agreements for this Agreement on behalf of Authority so long as such actions do not materially or substantially change the substantive business terms of this Agreement, or add to the costs incurred or to be incurred by Authority or City as specified herein. All other material and/or substantive approvals, waivers, or amendments shall require the consideration, action and written consent of the Huntington Beach Housing Authority Board of Directors.

21. Real Estate Commissions. Each of the Parties represents and warrants to the other Party that no real estate commission, broker's fees, or finder's fees which may accrue by means of the acquisition of the Property is due to any person, firm or entity. Authority shall indemnify, protect, defend and hold harmless Developer from any loss, liability, damage, cost, claim or expense (including reasonable attorneys' fees) incurred by reason of any broker fee, commission or finder's fee that is payable or alleged to be payable to any broker or finder which results from any act or agreement of Authority. Developer shall indemnify, protect, defend and hold harmless Authority from any loss, liability, damage, cost, claim or expense (including reasonable attorneys' fees) incurred by reason of any broker fee, commission or finder's fee that is payable or alleged to be payable to any broker or finder which results from any act or agreement of Developer.

22. Conflict of Interest. No member, official or employee of Authority/City having any conflict of interest, direct or indirect, related to this Agreement shall participate in any decision relating to this Agreement. The Parties represent and warrant that they do not have knowledge of any such conflict of interest.

23. Counterparts. This Agreement may be executed in counterparts, each of which shall be deemed an original, but which when taken together shall constitute one and the same instrument.

[End of Agreement- Signature page follows]

NOW THEREFORE, Authority and Developer have executed this Exclusive Negotiating Agreement as of the date first set forth above.

CITY:

HUNTINGTON BEACH HOUSING AUTHORITY, a public body, corporate and politic

By: _____

ATTEST:

_____
_____, Authority Secretary

APPROVED AS TO FORM:

_____
_____
_____, City Attorney

DEVELOPER:

JAMBOREE HOUSING CORPORATION, a California corporation

By: _____
Its: _____

By: _____
Its: _____

NOW THEREFORE, Authority and Developer have executed this Exclusive Negotiating Agreement as of the date first set forth above.

CITY:

HUNTINGTON BEACH HOUSING AUTHORITY, a public body, corporate and politic

By: _____

ATTEST:

_____
_____, Authority Secretary

APPROVED AS TO FORM:

_____

_____
_____, City Attorney

DEVELOPER:

JAMBOREE HOUSING CORPORATION, a California corporation

By: _____
Its: Chief Development Officer

By: _____
George Searcy (May 31, 2022 15:42 PDT)
Its: Chief Impact Officer

EXHIBIT "A"

LEGAL DESCRIPTION OF PROPERTY

Real property located in the City of Huntington Beach, County of Orange, State of California, described as follows:

EXHIBIT 1
LEGAL DESCRIPTION

PARCEL 1:
17642 BEACH BLVD
APN: 167-472-09

ALL THAT CERTAIN REAL PROPERTY SITUATED IN THE COUNTY OF ORANGE, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

LOT 7 OF TRACT 405, AS PER MAP RECORDED IN BOOK 16, PAGES 31 OF MISCELLANEOUS MAPS, IN THE OFFICE OF THE RECORDER OF SAID COUNTY.

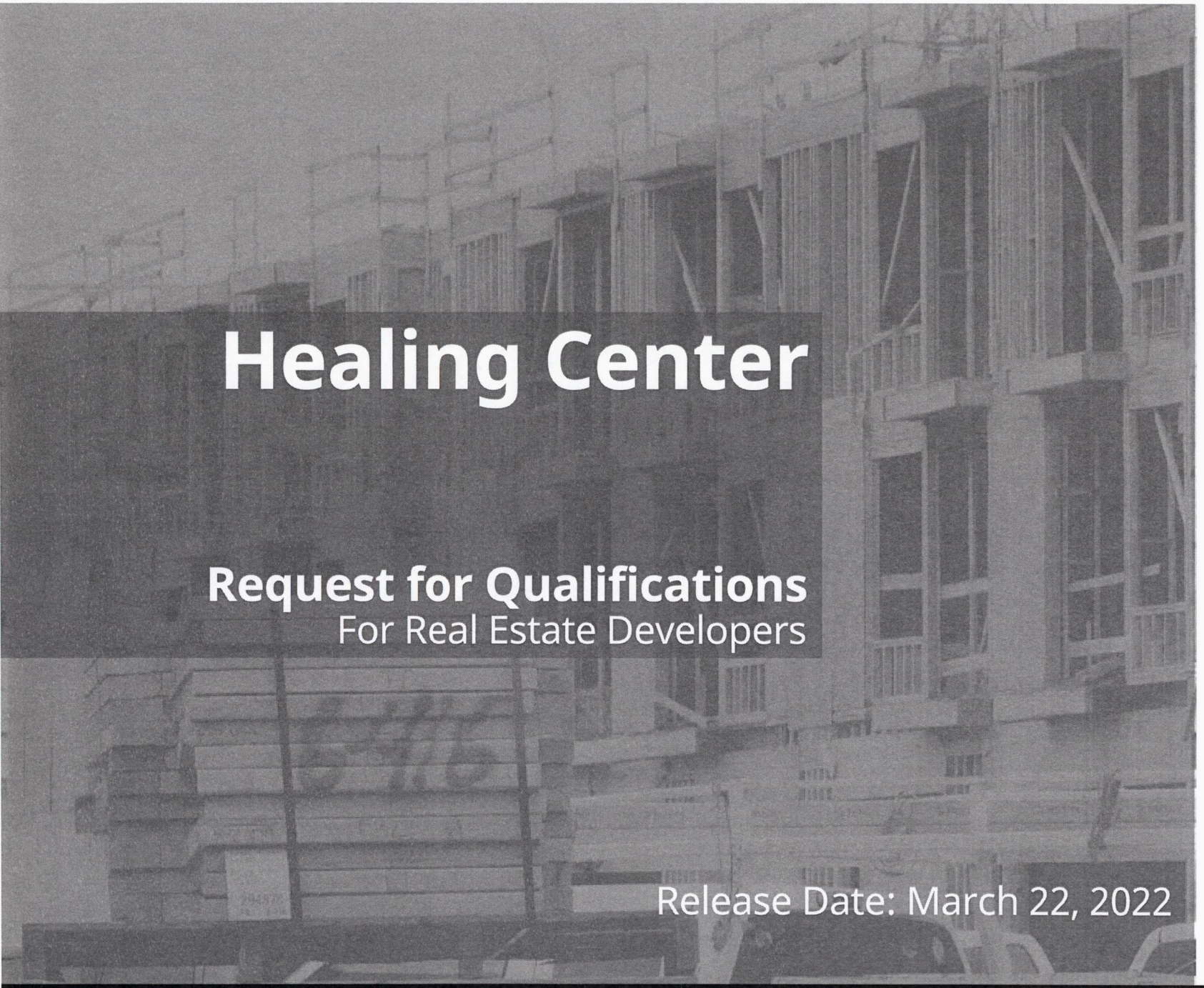
PARCEL 2:
17631 CAMERON LANE
APN 167-472-08

ALL THAT CERTAIN REAL PROPERTY SITUATED IN THE CITY OF HUNTINGTON BEACH, COUNTY OF ORANGE, STATE OF CALIFORNIA, DESCRIBED AS FOLLOWS:

LOT 6 OF TRACT NO. 405,IN THE CITY OF HUNTINGTON BEACH, COUNTY OF ORANGE, STATE OF CALIFORNIA, AS PER MAP RECORDED IN BOOK 16, PAGE 31, OF MISCELLANEOUS MAPS, IN THE OFFICE OF THE COUNTY RECORDER OF SAID COUNTY.
PLOTTED EASEMENT

EXHIBIT "B"

REQUEST FOR QUALIFICATIONS



Healing Center

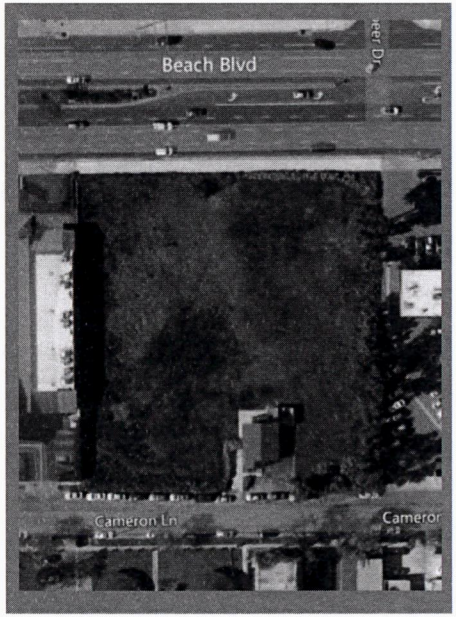
Request for Qualifications
For Real Estate Developers

Release Date: March 22, 2022

Table of Contents

About the City of Huntington Beach

Huntington Beach is located along the Southern California Coast of Orange County, 35 miles south of Los Angeles and 90 miles north of San Diego. Named for railroad magnate Henry Huntington who orchestrated the City's development, the City is best known today for its 8.5 miles of uninterrupted beaches, excellent year-round weather, and a surf culture that draws 4 million visitors annually. Beyond the shoreline, Huntington Beach is a full-service city with its own fire and police departments, an extensive park and library system, robust investments in capital infrastructure, a diverse economic base, and an excellent education system.



About Huntington Beach Housing Authority

The Huntington Beach Housing Authority ("HBHA") was established in 2011per Health & Safety Code Sections 34200 et. seq. for the purpose of addressing a shortage of safe and sanitary dwelling accommodations in the City available to persons of low income at rents they can afford. HBHA facilitates affordable housing by acquiring and disposing of real property and providing a source of funding to be leveraged with other funding sources. The City of Huntington Beach currently has a portfolio of approximately 3,000 deed restricted, affordable housing units.

In 2019 and 2020 HBHA acquired two adjacent parcels for a total site area of 1.6 acres to facilitate an affordable housing project. The property is located at 17642 Beach Boulevard ("Site"). Since acquisition, the Site has been improved with a temporary homeless shelter ("Navigation Center").

Solicitation Purpose

HBHA is releasing a Request for Qualifications ("RFQ") to identify experienced developers interested in redeveloping the Site. The purpose of this RFQ is to identify qualified development partners to develop, finance, and manage a new mixed-use development consisting of a homeless shelter, a sobering center, support services (physical and behavioral healthcare, housing navigation, and employment), and transitional and low-income housing at various income levels. The City currently has a shelter operator under contract for the Navigation Center and presumes that they will operate the permanent shelter if it is completed during the term of their contract.

Through this RFQ process, HBHA seeks to alert experienced developers to the opportunity; assess developer qualifications, capacity and interest in working with HBHA and other service providers; and receive market feedback on the broader vision for the Site. Interested developers are invited to participate in an optional site tour on March 28, 2022 at 2:00pm and a virtual information session on April 8, 2022 at 10:00am.

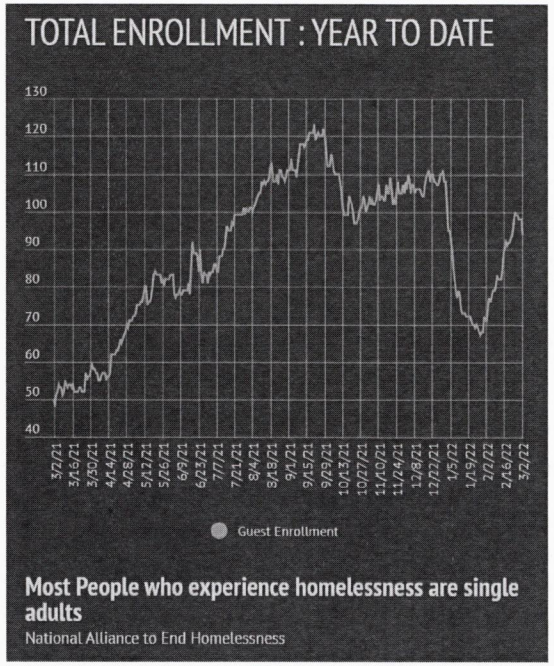
Responses to this RFQ are due on April 21, 2022. Following receipt of qualification statements, HBHA will identify a shortlist of developers to interview. If an appropriate development partner is identified after the interviews, HBHA will enter into an Exclusive Negotiation Agreement ("ENA") with the selected developer during which time specific terms and conditions of a multiple agreements including, but not limited to a disposition and affordable housing agreements.

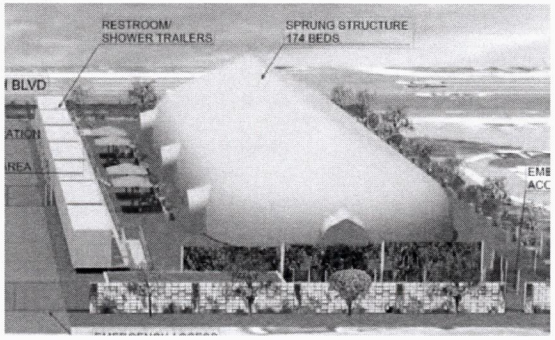
Important Dates:

Optional Site Tour	March 28, 2022 at 2pm
Virtual Info Session	April 8, 2022 at 10am
RFQ Deadline	April 21, 2022 at 5pm

About the Navigation Center

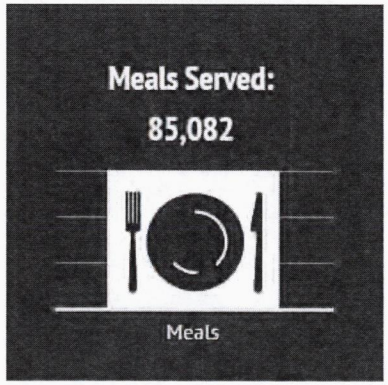
The Navigation Center was developed as a temporary, emergency shelter to support individuals experiencing homelessness. It is comprised of a sprung tent structure that can accommodate up to 174 beds as a congregate facility. There are separate areas for men, women, couples, and non-binary. Trailer facilities are utilized for bathrooms/ showers, laundry, hot box room, communal dining/ lounge, administrative office space and private counseling rooms. The Navigation Center also accommodates storage, a dog run, and space for a mobile trailer for supportive service providers to provide medical services on a weekly basis. The Navigation Center opened its doors in December of 2020. Due to the COVID-19 pandemic, social distancing requirements have reduced full capacity to allow for extra space in between beds. Upon stabilization, the Navigation Center has experienced an average of roughly 100 occupants daily, at the reduced capacity, and has placed 55 individuals into housing or other options that have kept them from returning to the streets.





Total Housed:

December 2020-Present



Project Vision

The Site is located within the Neighborhood Boulevard segment of the Beach and Edinger Corridors Specific Plan ("BECSP"). This segment along Beach Boulevard (Hwy 39) is characterized by a significant amount of aging commercial strip development, including auto-oriented uses, such as car dealerships. Development types are dominated by one-story, single-loaded commercial buildings surrounded by surface parking lots with little landscaping or pedestrian amenities. The planning approach to this area is to facilitate long-term transition from strip retail to uses more focused on nearby populations, featuring development types that retain visibility to motorists on Beach Boulevard, while providing a more visually attractive and comfortable pedestrian environment. Neighborhood-serving and hospital-serving retail and services, corner/crossroads located retail, and office and office-medical are encouraged to take advantage of the proximity to the Huntington Beach Hospital and its related cluster of medical services. In fill residential uses are also permitted throughout this segment.

Since acquiring the Site in 2020, HBHA has worked with the City and County of Orange to facilitate the Navigation Center. The City Council's aspires to address homelessness in a unique and meaningful way. Through this RFQ, HBHA is seeking a development partner to facilitate creating a distinct facility to support individuals from street to home. The goal of this facility is to provide space that allows the engagement of unhoused individuals and create a path from homelessness to housing; while addressing the underlying barriers that have prevented housing in the past. The desired continuum of services to be provided on site include a combination of shelter operations, a sobering center, behavioral and physical healthcare, housing navigation, and employment services. A development partner that is equally committed to assisting the City in making significant impacts toward the well-being of our most vulnerable community members is desired.

The City is currently working with an architectural firm to understand the improvements that are necessary to realize the vision. Potential operating models for the non-residential space are being explored. HBHA could solicit an operator(s) for the non-residential space through a separate procurement; however, respondents are encouraged to partner with potential operators and urged to express that interest in their response and outline a strategy for tenanting the building. Preference will be conferred to respondents that have a demonstrated track record working with the desired types of service providers.

Additional Site Information

The Site is located at 17642 Beach Boulevard and is comprised of two parcels, both controlled by HBHA, totaling 1.6 acres of land. Beach Boulevard is a State highway (Hwy 39) and is a High Quality Transit Corridor with the closest bus stop located within 800 feet of the Site. The Site is located within 2,000 feet of Huntington Beach Hospital and within 1,000 feet of a Federally Qualified Health Center (FQHC). It is also located just over a half a mile from a full service grocery store. The Site is bordered by a residential neighborhood (to the east) and commercial uses to the north, south and west.

The Site is zoned Mixed-Use – Affordable Housing Overlay (SP 14 - Beach and Edinger Corridors Specific Plan). SP 14 is a form-based code with prescriptive development standards and allows for a mix of commercial and residential uses. The Affordable Housing Overlay allows for by-right development (i.e. no discretionary public hearing) for projects that include at least 20% of the units affordable at no more than 60% Area Median Income ("AMI").

HBHA desires 100% of the units to be affordable at various income levels with all units at 60% AMI or less. It is HBHA's desire that the housing units qualify as supportive housing, as defined in Section 65650 of the Government Code.

As part of due diligence for acquisition, various contaminants were found on site. A full site assessment for each parcel is included as Appendices A and B. The Orange County Health Care Agency served as the oversight agency for the Navigation Center project. Their site summary and recommendations are included as Appendix C.

For informational purposes only, a Site Density Test Fit was conducted and is included as Appendix D.

AESCO has been retained to prepare a soils report. This report is not available at the time of publication of this RFQ. A letter containing preliminary foundation recommendations is included as Appendix E.

Scope of Work

HBHA, City, and Developer Roles

HBHA seeks to engage a vertical developer that would be responsible for entitlements and approvals, environmental assessments and testing, infrastructure, and community engagement related to the project. HBHA is open to that partner bringing on other developers for discrete components such as affordable housing, medical office, etc. HBHA encourages partnerships with service providers. The developer (whether a single entity or a team of individual developers and service providers) would also be responsible for project design, securing financing, overseeing construction, leasing, and ongoing property and asset management related to the project.

HBHA's role will be the pro-rata contribution of the land for housing and securing additional, limited funding for the affordable housing. Any form of disposition of HBHA-owned land for non-residential use will be at fair-market value. HBHA is open to exploring multiple disposition and/or partnership structures that suit the best development outcome, including but not limited to fee-simple, installment sale, joint venture or long-term ground lease.

The City's role will be its pro-rata share of the capital and infrastructure costs associated with the shelter and will work to identify other public sources of funding for ongoing operations.

Respondents will be evaluated based on their experience leading complex mixed-use development (ideally in the space of affordable housing, homeless shelters, sobering centers, and supportive services), securing entitlements and financing, ability to provide a guarantee of completion, achieving design excellence while promoting the objectives of SP 14, and demonstrated partnerships with service providers and community organizations.

RFQ Proposal Evaluation

Project Timeline Information

HBHA intends to select a development partner based on the most qualified entity for this unique project. Statements of Qualification will be evaluated and only the most qualified entities will be invited for an interview. The most qualified respondents will be gauged by their demonstrated technical and financial ability to carry out similar development projects on time and on budget, established relationships with service providers, and understanding the vision and objectives for the Site.

RFQ Release Date	March 22, 2022
Q&A Period	March 22-April 4, 2022
Optional Site Tour	March 28, 2022
A & A Answers Posted	April 6, 2022
Virtual Q & A Session	April 8, 2022
RFQ Deadline	April 21, 2022
Shortlist Interviews	April 29, 2022
Finalize ENA Term Sheet	May 26, 2022
Approval of ENA by CC	June 7, 2022

Submission Instructions

Respondents interested in serving as HBHA's development partner must submit the following information in the order prescribed below. Each section should be separated by headings and clearly marked. Points will be deducted for failure to comply with submission instructions. Responses should be thorough and clearly organized using the structure below, yet be as brief as possible.

Section 1: Cover Letter and Contact Information

Include a cover letter that succinctly summarizes your team's interest in the project. Identify the single point of contact with authority to make decisions (preferably executive level) for your organization with whom to communicate during the solicitation process, along with their contact information.

Section 2: Developer Qualifications & Experience

A. Organizational Structure: Indicate if the Respondent to this RFQ will be a single firm, joint venture or partnership. If a joint venture or partnership, describe the organizational structure and legal framework by which the work would be carried out.

B. Firm's Expertise: Provide an overview of the Respondent's expertise and services provided and an overall description of its portfolio of projects. Discuss your team's experience developing mixed-use and mixed-income projects, including those done through public-private partnerships if applicable. Highlight any development experience in the Orange County/ Los Angeles region if applicable.

C. Relevant Experience: Provide up to 3 detailed examples of your experience developing and/or operating mixed-use, mixed-income projects of similar size, scope, and character, with an emphasis on any projects that included affordable and mixed-income housing, homeless shelters, and social services.

Submission Instructions (cont.)

The following must be included for each project example:

Project name and location
- Date of award of contract
- Construction start and end dates (include phasing plan if applicable)
- Program description and uses, including residential, homeless shelter, medical, social services, etc.
- Include gross square footage and unit counts. For residential, note market rate vs. affordable and identify AMI levels.
- Other partners involved (other developers, non-profits, government partners, community orgs., etc.)

D. Financing Structure:
- Names of financing institutions, including lenders and equity provider and the true ownership of borrowing entities.
- Any subsidies or tax-credit programs utilized, if applicable.
- Any public financing utilized.
- Project budget vs. final cost.
- Include details of performance and completion guarantees, including parties at-risk.

E. Project References:
Include contact name, position, organization, phone number, and e-mail

F. Financial Capacity Statement:
Provide evidence of your firm's financial capacity to take on this project, including:
- Information about recent closings.
- Liquid capital or letter of credit, and letters of support from debt and/or equity providers, etc.

Submission Instructions (cont.)

- Audited financials for the previous two years for the Respondent, if the identified developer and manager parties are related parties ("Related Team Members") with an operating history. In the case of a Respondent (a) with Related Team Members, but no operating history or (b) that is a joint venture of otherwise unrelated developer(s) and property manager(s), supply audited financials for the previous two years for both the developer team member(s) and the property manager team member(s). The Financial Statements should be emailed separately and directly to the City's technical advisor, Andria Martinez with the National Development Council (NDC) at AMartinez@ndconline.org.

Note: Financial statements and related information will not be returned. After review and analysis, all financial statements will be shredded and destroyed prior to award of the subsequent contract(s). NDC will use this information only to confirm that the entity is financially capable of completing the project and will advise HBHA on the strength of the financial capacity. This information will be used for no other purposes and will remain confidential to the extent permitted by law.

G. Past and Current Litigation Disclosure: Provide documentation of all litigation actions taken against your firm, or related parties, in the past 5 years, including any ongoing and/or pending actions which may impact your firm's capacity to successfully perform the Civic Center project if selected.

Section 3: Respondent Information

- Identify the development team and provide an organization chart that includes all anticipated team members and their roles (architect, engineer, specialty consultants, etc.).
- Provide the biographies for key development staff that would work directly with HBHA.
- Include the qualifications of your anticipated partners outside your immediate company, including firm/organization overview, relevant experience, and biographies for key staff.
- Describe projects where members of the Respondent team worked together.

Submission Instructions (cont.)

Section 4: M/WBE Inclusion Goal

HBHA seeks to work with a developer(s) that is committed to high minority and women-owned business (M/WBE) participation as well as participation from local and/or disadvantaged businesses.

Section 5: Development Approach

Please prepare responses to the following:

- Describe your team's preferred development strategy for the site. Does your team have a preferred disposition strategy (buy, ground lease, etc.)?
- Provide your team's feedback on HBHA's overall vision for the Site. What opportunities and challenges does the Site present?
- How would your team approach public outreach and engaging the community?
- Describe your team's experience developing contaminated property(ies).

Evaluation Criteria

The evaluating process is designed to select a Respondent, not based on the least cost, but rather the Respondent(s) with the best combination of attributes, (experience, financial capacity/ ability to secure funding, and successful partnerships with service providers). Respondent(s) must provide all information outlined in the evaluation factors (defined below) for the Respondent's Submission of Qualifications to be considered responsive. The quality of answers rather than length of responses to this RFQ is important. The maximum points that shall be awarded for each of the evaluation factors are detailed and described below. HBHA's basis of selection for final determination of shortlisted Respondents shall be within its sole discretion.

A. Has the Respondent provided a detailed inventory of the development team's relevant projects, roles, and outcomes while highlighting comparable factors between the team's experience and the Civic Center site? (20 points)

B. Has the Respondent provided evidence of successful outcomes related to similar large-scale land development projects, including working with government agencies and community groups to secure entitlements? (20 points)

C. Has the Respondent identified key financial relationships and demonstrated a track record of securing financing and strong, sustainable financial performance on relevant projects? (20 points)

D. Has the Respondent provided evidence of on-time, on-budget completion of similar past projects? (10 points)

E. Has the Respondent demonstrated experience leading projects that showcase both time-tested and cutting-edge best practices in design and sustainability? (10 points)

F. Has the Respondent previously partnered with not-for-profit and/or community-based organizations? Did the Respondent describe its role and responsibilities, and how the partnership contributed to a symbiotic arrangement to the benefit of the project? (20 points)

Contact Information

Respondents who wish to make inquiries requesting clarification of the RFQ must do so in writing. All questions must be received by April 4, 2022 at 4pm. HBHA will make all submitted questions and answers available to all participating parties no later than April 6, 2022 at 4pm. Respondents who are interested in participating in the optional site tour should RSVP via e-mail to Jason Austin, Deputy Director of Homeless and Behavior Health at JAustin@hbpd.org no later than one day prior to the event. No RSVP will be required prior to the Virtual Q&A Session. RFQ responses are due no later than April 21, 2022 at 5:00pm and must be submitted as a PDF and emailed to Charles.Kovac@surfcity-hb.org.

Appendix A

EEC ENVIRONMENTAL

Corporate Office
Tel: (714) 667-2300
Fax: (714) 667-2310
One City Boulevard West, Suite 1800
Orange, California 92868
www.eecenvironmental.com

Site Assessment Report

Cameron Ln. Property
17631 Cameron Lane
Huntington Beach, California
OCHCA Case #20IC002

June 25, 2020

Prepared for:

Mr. Carlos Marquez
City of Huntington Beach
200 Main Street
Huntington Beach, California 92648

Prepared by:
EEC Environmental
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Orange, California 92868
EEC S-3506.02T

PROFESSIONAL GEOLOGIST
DAVID BERNIER
No. 9425
STATE OF CALIFORNIA

Laura Holder
Project Manager

David Bernier, PG
Principal Geologist

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1.0 INTRODUCTION

On behalf of the City of Huntington Beach, EEC Environmental (EEC) has prepared this Site Assessment Report for the Cameron Ln. Property located at 17631 Cameron Lane, Huntington Beach, California (subject property; Figure 1, *Site Location Map*). The purpose of the site assessment was to address findings of EEC's Phase I Environmental Site Assessment (ESA) dated March 18, 2020, which identified potential use of pesticides/herbicides and lead-based paint in connection with former agricultural use and residential use as environmental concerns and recommended soil sampling. The Phase I ESA and the site assessment activities were completed in connection with proposed redevelopment of the subject property.

This report documents the methods, procedures, and results of the site assessment activities at the subject property. All work was completed in general accordance with EEC's April 2, 2020 proposal to the City of Huntington Beach (EEC, 2020) and subsequent correspondence between the City of Huntington Beach and EEC. All work was performed under the supervision of a California licensed Professional Geologist (PG) and the Orange County Health Care Agency (OCHCA).

1.1 Scope of Work

The completed site assessment activities included the following tasks:

- Preparing a site-specific health and safety plan (HASP) appropriate for the scope of work.
- Contacting Underground Service Alert (USA) 72 hours prior to initiation of fieldwork.
- Advancing 35 borings for the collection of soil and groundwater samples from depths ranging from approximately 0.5 feet below ground surface (bgs) to 24 feet bgs.
- The collection and analysis of 86 soil samples for organochlorine pesticides (OCPs), herbicides, lead, Title 22 Metals, and hexavalent chromium and 3 groundwater samples for hexavalent chromium.
- Excavation of soil containing elevated concentrations of lead and OCPs at two locations.

2.0 BACKGROUND

2.1 Site Description

The approximately 0.79-acre subject property consists of a residential lot identified as Assessor Parcel Number (APN) 167-042-08, 17631 Cameron Lane in Huntington Beach, Orange County, California. The east side of the subject property is currently developed with an unoccupied single-family residence that was developed in 1947. A Phase I ESA was completed for the subject property on March 18, 2020 (EEC, 2020). The Phase I ESA indicated that based on a review of historical aerial photographs, the subject property appeared to be used for agricultural purposes (row crops) from the 1930s to the 1950s and given this usage, it is possible that pesticides and/or herbicides were once used onsite. Additionally, due to the date of construction of the residence, lead-based paint may have been used on the subject property residence. Based on this information, the Phase I ESA recommended soil sampling to assess for potential residual pesticides and herbicides from former agricultural use and to assess for potential lead in the location of the current building exterior.

2.2 Physiography

The most recent topographic map coverage of the subject property is provided by the U.S. Geological Survey (USGS) 7.5-minute, Newport Beach, California quadrangle map, dated 2012 (Figure 1). According to the USGS topographic map, the subject property is located at an elevation of approximately 25 to 30 feet above mean sea level (msl). The topography in the general subject property area slopes gently to the north-northeast.

2.3 Geology and Hydrogeology

Onsite activities described in this report indicated that soil at the subject property consists primarily of silt at 1 foot bgs. At five feet bgs, soil consists primarily of clayey sand and sandy clay. At 8 feet bgs soil consists of silt, clayey silt, silty sand, sand, sandy clay, and clayey sand. At 20 feet bgs, soil consists of silt, clayey sand, and clayey silt. At 24 feet bgs, the maximum depth explored, soil consists of sand and silty sand.

According to a Quarterly Status Report, Second Quarter 2019 for a site located approximately 500 feet northwest of the subject property, the groundwater flow direction is southwest (Atlas Environmental Engineering, Inc., 2019). During onsite activities, groundwater was encountered at 23 and 24 feet bgs.

3.0 SITE INVESTIGATION ACTIVITIES

Between April 6 and May 11, 2020, a total of 35 soil borings were advanced to depths ranging from approximately 0.5 to 8 feet bgs for the collection of soil samples at the subject property. In addition, three groundwater samples were collected and two soil excavations were completed.

3.1 Pre-Field Activities

Prior to beginning soil sampling activities, EEC completed the following tasks necessary to initiate field activity.

3.1.1 Health and Safety Plan

To protect workers, EEC prepared a HASP as appropriate for the scope of work. The HASP informed all site workers of potential risks during field sampling activities and provided engineering controls to avoid physical and chemical hazards. The HASP addressed potential physical and chemical hazards associated with field operations. The HASP outlined the steps to prevent exposures from all site activities. The HASP also described the safe use of equipment, evaluation of hazards, safe investigation procedures, personal protective equipment, emergency procedures and training required to conduct the site assessment under typical Hazardous Waste Operations and Emergency Response protocol.

3.1.2 Utility Clearance

EEC contacted USA and provided the specific property boundaries so that the proposed work area was provided to utility owners responding to the USA ticket. USA is a regional notification center that notifies owners and operators of subsurface utilities (water, gas, electric, sewer, oil lines, etc.) and informs them

of a contractor's intent to perform subsurface work. EEC notified USA of the intent to perform subsurface work a minimum of 72 hours prior to the beginning of the on-site activities.

3.2 Hand-Auger Soil Boring Advancement and Soil Sampling

Between April 6 and April 28, 2020, EEC advanced a total of 27 soil borings at the subject property (B1 through B18, B4-A, B6-A, and B26-B32; Figure 2, *Boring Location Map*) to total depths of 3 feet bgs. The borings were advanced using a hand auger. Once each sampling depth was reached, the hand auger was removed from the borehole and an undisturbed soil sample was collected using a slide hammer sampler including a stainless steel sampling sleeve. Following sample retrieval, both ends of the sleeve were covered with a Teflon sheet and sealed with a plastic end cap. Soil samples were then labeled with an identification number, sealed in a plastic bag, and placed into a chilled cooler.

An unused portion of soil from each sampling interval was used for field screening using a photoionization detector (PID) for evaluation of organic vapor content and for logging lithology. Field screening was conducted by placing a portion of the unpreserved soil in a sealable plastic bag for approximately 10 minutes. The organic vapor concentration in the headspace of the plastic bag was then measured using a PID. Soil descriptions and PID measurements were recorded and documented on field notes. All field activities were performed under the direct oversight of a California PG.

All soil samples were collected and transferred under proper chain-of-custody protocols to Eurofins Calscience (Calscience) of Garden Grove, a California state-certified laboratory. Selected soil samples were analyzed for organochlorine pesticides (OCPs) by United States Environmental Protection Agency (USEPA) Method 8081A, herbicides by USEPA Method 8151A, California Title 22 metals by USEPA Method 6010B, mercury by USEPA Method 7471A, and hexavalent chromium by USEPA Method 7199.

The specific soil sampling method for each sample location is provided in Table 3-1, *Soil Sampling Matrix,* on Page 6 of this report. Because multiple phases of soil sampling and analysis were completed, Section 3.2.1 below provides a timeline summary to clarify the sequence of events that took place between April 6 and April 28, 2020. Specific details related to analytical results, screening levels, and soil excavations are provided in Sections 4.1 and 5.1 of this report.

3.2.1 Summary of Phases of Hand-Auger Soil Sampling

The initial sampling event took place at the subject property on April 6, 2020. The purpose of this initial sampling event was to determine if residual pesticides or lead were present in soil as a result of former agricultural use and potential use of lead-based paint on the residence as identified in EEC's Phase I ESA dated March 18, 2020. Six hand auger borings (B1 through B6) were advanced and soil samples were collected from 0.5 and 3 feet bgs. The soil samples were submitted to Calscience and analyzed for OCPs and lead by USEPA Methods 8081A and 6010B.

Based on the results of the soil sampling, which identified elevated concentrations of lead and OCPs in B4 and B6, respectively, four additional hand-auger borings (B7 through B10) were advanced on April 13, 2020 and soil samples were collected from 0.5 and 3 feet bgs for additional site coverage. The soil samples were submitted to Calscience and analyzed for OCPs and lead by USEPA Methods 8081A and 6010B. Results of the April 13, 2020 soil sampling indicated that elevated concentrations of OCPs were found in B7, on the northwest portion of the subject property.

Due to the expeditious nature of the project, on April 13, 2020, soil at the location of borings B4 and B6 was excavated and soil samples were collected from confirmation borings at the sidewalls of the excavations (B15 through B18 around B4; B11 through B14 around B6) and submitted to Calscience for analysis of OCPs and lead by USEPA Methods 8081A and 6010B. Elevated concentrations of OCPs and lead were not found in confirmation borings around B4 and B6, with the exception of boring B11, which had elevated concentrations of OCPs. Approximately 1.39 cubic yards of material was removed from the location of boring B4 and approximately 1.39 cubic yards of material was removed from the location of boring B6.

Based on elevated concentrations of OCPs in B7 and B11, step-out hand-auger borings were advanced adjacent to B7 (B29 through B32) and B11 (B26 through B28) on April 16, 2020. Soil samples were collected from 0.5 and 3 feet bgs and submitted to Calscience for analysis of OCPs by USEPA Method 8081A. The only elevated concentrations of pesticides detected in the step-out borings were in B29 and B32, adjacent to boring location B7. The following additional tasks were planned to address the elevated concentrations of OCPs, but were not completed due to scope changes that occurred during the course of the project: excavation around B11 and excavation and confirmation soil sampling around B7, B29, and B32.

On April 27, 2020, the City of Huntington Beach entered into a Remedial Action Agreement with the OCHCA. The OCHCA indicated that select soil samples should also be analyzed for Title 22 Metals, mercury, hexavalent chromium, and herbicides. On April 29 and 30, 2020, soil samples from B4 and B6 through B10 were analyzed for California Title 22 metals by USEPA Method 6010B, mercury by USEPA Method 7471A, and hexavalent chromium by USEPA Method 7199 and soil samples from B7, B9, and B10 were analyzed for herbicides by USEPA Method 8151A. Because the laboratory hold time was exceeded, soil from B4 and B6 could not be analyzed for herbicides. Therefore, on April 28, 2020, hand-auger soil borings B4-A and B6-A were advanced near B4 and B6. Soil samples were collected from 0.5 and 3 feet bgs and submitted to Calscience for analysis of herbicides by USEPA Method 8151A.

3.3 Geoprobe Drilling and Soil and Groundwater Sampling

Results of the additional soil analyses completed on April 29 and 30, 2020 indicated that elevated concentrations of hexavalent chromium were found in multiple soil samples at 0.5 and 3 feet bgs. In order to better understand the lateral and vertical distribution of hexavalent chromium at the subject property, and to determine if groundwater was impacted, EEC oversaw Strongarm Environmental Field Services, Inc. (Strongarm) drill a total of 8 borings for the collection of soil and groundwater samples on May 11, 2020. The borings were placed in a grid pattern laterally over the subject property and close to previous boring locations; therefore, they were given similar nomenclature (B1-A, B4-B, B5-A, B6-B, B7-A, B8-A, B9-A, and B10-A; Figure 2).

The borings were advanced using Geoprobe direct-push drilling technology and hand-auger equipment. Direct-push drilling rigs are hydraulically powered soil probing machines that use both static force and

percussion to drive steel boring rods into the subsurface. Before the initiation of drilling, Strongarm cleared the upper 5 feet of the borehole with a hand auger to verify the absence of underground utilities or other shallow obstructions.

A soil sample was collected from 4 feet bgs from each boring using the hand auger. The hand auger was removed from the borehole and an undisturbed soil sample was collected using a slide hammer sampler including a stainless steel sampling sleeve. Following sample retrieval, both ends of the sleeve were covered with a Teflon sheet and sealed with a plastic end cap. During direct-push drilling, continuous soil samples were collected using 5-foot long acetate sleeves. The direct-push rig hydraulically drove the sampling sleeve the entire 5-foot interval. Following sample retrieval the portion of the sleeve chosen for samples (i.e., 5 feet bgs, 6 feet bgs, 7 feet bgs, and 8 feet bgs) was cut and the ends of each sample were covered with Teflon sheets and sealed with plastic end caps. Soil samples were then labeled with an identification number, sealed in a plastic bag, and placed into a chilled cooler.

An unused portion of soil from each sampling interval was used for field screening using a PID for evaluation of organic vapor content and for logging lithology. Field screening was conducted by placing a portion of the unpreserved soil in a sealable plastic bag for approximately 10 minutes. The organic vapor concentration in the headspace of the plastic bag was then measured using a PID. Soil descriptions and PID measurements were recorded and documented on field notes. All field activities were performed under the direct oversight of a California PG.

The collected soil samples were transferred under proper chain-of-custody protocols to Calscience and analyzed for hexavalent chromium by USEPA Method 7199, as shown on Table 3-1 on Page 6 of this report.

3.3.1 Groundwater Sampling

Following soil sampling, groundwater samples were collected from three borings (B4-B, B8-A, and B10-A). Groundwater samples were collected with a Hydropunch-type sampling device. The rod was withdrawn to expose the screen of the sampling device and a stainless steel bailer was then lowered into the borehole to collect a groundwater sample. Samples were labeled, sealed in a plastic bag, and placed into a chilled cooler. Collected groundwater samples were submitted to Calscience for analysis of hexavalent chromium by USEPA Method 218.6.

Table 3-1, Soil Sampling Matrix

Location/Rationale	Boring IDs	Depth of Borings (bgs)	Date Sampled	Soil Sampling	
				Sample Depth	Analytes
Residence exterior/initial sampling	B1-B3	3 feet	April 6, 2020	0.5 and 3 feet	Lead, OCPs
Residence exterior/initial sampling	B4	3 feet	April 6, 2020	0.5 and 3 feet	Lead, OCPs, Title 22 Metals, Mercury, Hexavalent Chromium
Undeveloped area/initial sampling	B5	3 feet	April 6, 2020	0.5 and 3 feet	Lead, OCPs
Undeveloped area/initial sampling	B6	3 feet	April 6, 2020	0.5 and 3 feet	Lead, OCPs, Title 22 Metals, Mercury, Hexavalent Chromium
Northwest corner/additional coverage	B7	3 feet	April 13, 2020	0.5 and 3 feet	Lead, OCPs, Herbicides, Title 22 Metals, Mercury, Hexavalent Chromium
North center/additional coverage	B8	3 feet	April 13, 2020	0.5 and 3 feet	Lead, OCPs, Title 22 Metals, Mercury, Hexavalent Chromium
Northeast and southwest corners/additional coverage	B9, B10	3 feet	April 13, 2020	0.5 and 3 feet	Lead, OCPs, Herbicides, Title 22 Metals, Mercury, Hexavalent Chromium
Adjacent to B6/confirmation borings	B11-B14	3 feet	April 13, 2020	0.5 and 3 feet	Lead, OCPs
Adjacent to B4/confirmation borings	B15-B18	3 feet	April 13, 2020	0.5 and 3 feet	Lead, OCPs
Adjacent to B11/step-out borings	B26-B28	3 feet	April 16, 2020	0.5 and 3 feet	OCPs
Adjacent to B7/step-out borings	B29-B32	3 feet	April 16, 2020	0.5 and 3 feet	OCPs
Adjacent to B4/herbicide sampling	B4A	3 feet	April 28, 2020	0.5 and 3 feet	Herbicides
Adjacent to B6/herbicide sampling	B6A	3 feet	April 28, 2020	0.5 and 3 feet	Herbicides
Adjacent to B1 and B10/hexavalent chromium sampling	B1-A and B10-A	8 feet	May 11, 2020	4 feet	Hexavalent chromium
Adjacent to B4, B5, B6, B7, B8, and B9/hexavalent chromium sampling	B4-B, B5-A, B6-B, B7-A, B8-A, and B9-A,	8 feet	May 11, 2020	4, 5, 6, 7, and 8 feet	Hexavalent chromium

Key:
bgs = below ground surface
OCPs = organochlorine pesticides

4.0 SAMPLING RESULTS

4.1 Soil

A total of 86 soil samples were collected and analyzed for OCPs, herbicides, California Title 22 metals, lead, mercury, and hexavalent chromium between April 6 and May 11, 2020 (Table 3-1). The soil laboratory results are summarized below and in Table 1, *Summary of Soil Analytical Results – Metals* and Table 2, *Summary of Soil Analytical Results – Pesticides and Herbicides*. Estimated values (J), detected below the reporting limit and above the laboratory method detection limit are included in the summary. Analytical results were compared to the USEPA Regional Screening Levels (RSLs) for residential soil and DTSC Screening Levels (SLs) for residential soil (Cleanup Standards). If both RSLs and SLs were available for a particular analyte, then the more stringent value was used. Laboratory analytical results, chain-of-custody documentation, and quality control data are provided in Appendix A, *Laboratory Analytical Reports, Chain-of-Custody Record, and QA/QC Data*.

4.1.1 Metals

- With the exception of lead and hexavalent chromium, metals detected in soil samples were at concentrations below their respective Cleanup Standard, or established background levels.

- Lead was detected at 101 milligrams per kilogram (mg/kg) in B4-0.5, exceeding the Cleanup Standards. The deeper sample (3 feet bgs) collected from the same boring contained lead at a concentration of 2.81 mg/kg, below Cleanup Standards; therefore, vertical delineation was achieved. Lead was not detected above Cleanup Standards in confirmation samples collected after excavation of soil around B4 (Section 5.1).

- Hexavalent chromium was detected throughout the subject property at depths ranging from 0.5 feet bgs to 8 feet bgs. Concentrations ranged from 200 to 980 micrograms per kilogram (µg/kg), some of which exceeded Cleanup Standards.

4.1.2 Pesticides and Herbicides

- Several organochlorine pesticides were detected in shallow soil, including 4,4'-Dichlorodiphenyldichloroethane (4,4'-DDD), 4,4'- Dichlorodiphenyldichloroethylene (4-4'-DDE), 4-4' Dichlorodiphenyltrichloroethane (4,4'-DDT), alpha-chlordane, chlordane, dieldrin, and toxaphene. All concentrations were below Cleanup Standards for residential soil, with the exception of toxaphene and 4,4'-DDE. No other pesticides were detected above Cleanup Standards.

- Toxaphene was detected in three samples (B6-0.5, B7-0.5, and B10-0.5) at concentrations ranging between 500 µg/kg and 1,600 µg/kg, which exceeded the USEPA RSL of 490 µg/kg and DTSC SL of 450 µg/kg. 4,4'-DDE was detected in one sample (B7-0.5) at 3,100 µg/kg, which exceeded the USEPA RSL of 2,000 µg/kg (DTSC SL not established).

- Herbicides were not detected above laboratory reporting limits in any of the samples that were analyzed (B4-A, B6-A, B7, B9, and B10 at 0.5 and 3 feet bgs).

4.2 Groundwater

On May 11, 2020, groundwater samples were collected from three of the geoprobe boring locations (B8-A/GW-1, B4-B/GW-2, and B10-A/GW-3) in order to determine if hexavalent chromium in soil had impacted groundwater. Collected groundwater samples were transferred under proper chain-of-custody protocols to Calscience for analysis of hexavalent chromium by USEPA Method 218.6.

Hexavalent chromium was not detected above the laboratory reporting limit of 0.038 micrograms per liter (µg/L) in any of the groundwater samples. It was detected at 0.086 J µg/L in the equipment blank sample, which is laboratory-provided water used as a quality control sample.

5.0 INVESTIGATION DERIVED WASTE AND EXCAVATED SOIL

Excavated soil, soil cuttings, and decontamination water generated during this assessment work were stored onsite in ten United States Department of Transportation (DOT) approved 55-gallon drums. The drums were labeled documenting the accumulation start date, description of contents, and applicable contact information. Wastes will be profiled, manifested, and disposed of within 90 days of generation. If available at the time of report preparation, the manifest(s) signed by the disposal facility will be included in the final report.

6.0 CONCLUSIONS AND RECOMMENDATIONS

This site assessment and limited soil excavation was performed to address the findings of the Phase I ESA report. Based on the results of the site assessment and limited excavation activities, EEC has the following conclusions:

- Soil impacted with lead, pesticides, and hexavalent chromium was found at the subject property.
- Lead-impacted soil identified at the location of boring B4 was excavated and no additional investigation or excavation is warranted for lead impacts.
- Pesticide-impacted soil at the location of boring B6 was partially excavated; however, multiple locations of elevated detections of pesticides remain at the subject property.
- Hexavalent chromium was detected throughout the subject property at depths of up to 8 feet bgs; however, because hexavalent chromium was not detected in groundwater it appears to be a limited and isolated concern.

Based on the above conclusions, EEC recommends:

- The ground surface at the subject property be covered with asphalt or concrete to eliminate the risk of dermal contact with soil at the subject property.
- Any soil excavated from short- or long-term redevelopment be managed, handled, and disposed of in accordance with all regulatory requirements to minimize exposure to workers and the community.

- If a change to use of the subject property occurs, the soil contamination must be addressed and additional assessment may also be required.

- The OCHCA must be notified if there are any changes in site use and/or if there are any future findings of additional contamination at the site.

7.0 REFERENCES

Atlas Environmental Engineering, Inc. (2018, May 9). *Quarterly Status Report, 2nd Quarter 2019, OCHCA Case #93UT070, G&M Oil Company Station #35, 17501 Beach Boulevard, Huntington Beach, California 92647.*

EEC Environmental (2020, March 18). *Phase I Environmental Site Assessment, 17631 Cameron Lane and 17642 Beach Boulevard, Huntington Beach, California*.

United States Geological Survey (USGS). 7.5-Minute Topographic Quadrangle Map, Newport Beach, California, 2012

Tables

Table 1, Summary of Soil Analytical Results - Metals
17631 Cameron Lane
Huntington Beach, California

Sample ID	Sample Depth (feet bgs)	Date	Antimony (mg/Kg)	Arsenic (mg/Kg)	Barium (mg/Kg)	Beryllium (mg/Kg)	Cadmium (mg/Kg)	Chromium (mg/Kg)	Cobalt (mg/Kg)	Copper (mg/Kg)	Lead (mg/Kg)	Molybdenum (mg/Kg)	Nickel (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Thallium (mg/Kg)	Vanadium (mg/Kg)	Zinc (mg/Kg)	Mercury (mg/Kg)	Hexavalent Chromium (µg/Kg)
			USEPA Method 6010B																USEPA Method 7471A	USEPA Method 7199
B1-0.5	0.5	04/6/2020	NA	NA	NA	NA	NA	NA	NA	NA	**44.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B1-3.0	3.0	04/6/2020	NA	NA	NA	NA	NA	NA	NA	NA	**3.23**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B1A-4.0	4.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<200
B2-0.5	0.5	04/6/2020	NA	NA	NA	NA	NA	NA	NA	NA	**15.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B2-3.0	3.0	04/6/2020	NA	NA	NA	NA	NA	NA	NA	NA	**3.52**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B3-.05	0.5	04/6/2020	NA	NA	NA	NA	NA	NA	NA	NA	**5.29**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B3-3.0	3.0	04/6/2020	NA	NA	NA	NA	NA	NA	NA	NA	**2.57**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B4-0.5	0.5	04/6/2020	**4.61**	**10.3**	**150**	**0.760**	**2.11**	**21.6**	**9.81**	**38.0**	**101**	ND<0.260	**17.4**	ND<0.781	ND<0.260	ND<0.781	**40.1**	**240**	**0.210**	**500 J**
B4-3.0	3.0	04/6/2020	ND<0.735	**2.56**	**81.1**	**0.922**	ND<0.490	**17.3**	**7.60**	**6.29**	**2.81**	**0.696**	**12.7**	ND<0.735	ND<0.245	ND<0.735	**35.9**	**35.1**	ND<0.0794	**290 J**
B4B-4.0	4.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**350 J**
B4B-5.0	5.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**300 J**
B4B-6.0	6.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**380 J**
B4B-7.0	7.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**330 J**
B4B-8.0	8.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**410 J**
B5-0.5	0.5	04/6/2020	NA	NA	NA	NA	NA	NA	NA	NA	**17.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B5-3.0	3.0	04/6/2020	NA	NA	NA	NA	NA	NA	NA	NA	**2.43**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B5A-4.0	4.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**300 J**
B5A-5.0	5.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**540**
B5A-6.0	6.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**330 J**
B5A-7.0	7.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**580**
B5A-8.0	8.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**200 J**
B6-0.5	0.5	04/6/2020	ND<0.785	**8.44**	**113**	**1.12**	**1.00**	**23.1**	**10.7**	**20.3**	**7.62**	**0.617**	**16.7**	ND<0.785	ND<0.262	ND<0.785	**48.7**	**75.3**	ND<0.0806	**290 J**
B6-3.0	3.0	04/6/2020	ND<0.769	**3.27**	**81.5**	**0.858**	ND<0.513	**14.0**	**6.43**	**10.3**	**12.8**	**0.712**	**12.0**	ND<0.769	ND<0.256	ND<0.769	**31.1**	**45.2**	ND<0.0847	**820**
B6B-4.0	4.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**570**
B6B-5.0	5.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**430**
B6B-6.0	6.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**620**
B6B-7.0	7.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**350 J**
B6B-8.0	8.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<400
B7-0.5	0.5	04/13/2020	**1.0**	**3.67**	**50.9**	ND<0.248	**0.748**	**9.5**	**3.44**	**17.8**	**30.0**	**0.422**	**6.41**	ND<0.743	**0.311**	ND<0.743	**13.2**	**97.1**	**0.245**	NA[1]
B7-3.0	3.0	04/13/2020	**1.37**	ND<0.754	**54.1**	**0.437**	ND<0.503	**7.48**	**6.71**	**6.16**	**5.16**	ND<0.251	**6.34**	ND<0.754	ND<0.251	ND<0.754	**19.8**	**16.0**	**0.0817**	**380 J**
B7A-4.0	4.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1,000
B7A-5.0	5.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<400
B7A-6.0	6.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**420**
B7A-7.0	7.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**270 J**
B7A-8.0	8.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**330 J**
USEPA RSLs for Soil - Residential (µg/kg)[2]			*31*	*0.68*	*15,000*	*1,600*	*71*	*120,000*	*23*	*3,100*	*82*	*390*	*1,500*	*390*	*390*	*0.78*	*390*	*23,000*	*23*	*300[4]*
DTSC SL for Soil - Residential (µg/kg)[3]			--	*0.11*	--	*16[3]*	*910*	--	--	--	*80[3]*	--	*820[3]*	--	--	--	--	--	*1.0[3]*	*300[4]*

Table 1, Summary of Soil Analytical Results - Metals
17631 Cameron Lane
Huntington Beach, California

Sample ID	Sample Depth (feet bgs)	Date	Antimony (mg/Kg)	Arsenic (mg/Kg)	Barium (mg/Kg)	Beryllium (mg/Kg)	Cadmium (mg/Kg)	Chromium (mg/Kg)	Cobalt (mg/Kg)	Copper (mg/Kg)	Lead (mg/Kg)	Molybdenum (mg/Kg)	Nickel (mg/Kg)	Selenium (mg/Kg)	Silver (mg/Kg)	Thallium (mg/Kg)	Vanadium (mg/Kg)	Zinc (mg/Kg)	Mercury (mg/Kg)	Hexavalent Chromium (µg/Kg)
			USEPA Method 6010B																USEPA Method 7471A	USEPA Method 7199
B8-0.5	0.5	04/13/2020	**0.913**	**1.83**	**54.3**	**0.372**	ND<0.513	**6.62**	**4.24**	**7.55**	**25**	ND<0.256	**5.86**	ND<0.769	ND<0.256	ND<0.769	**17.3**	**26.4**	ND<0.0820	**480**
B8-3.0	3.0	04/13/2020	**1.42**	**7.30**	**109**	ND<0.253	ND<0.505	**3.97**	**2.40**	**8.77**	**2.45**	**1.53**	**4.27**	ND<0.758	ND<0.253	ND<0.758	**9.2**	**14.6**	ND<0.0833	ND<200
B8A-4.0	4.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<800
B8A-5.0	5.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<200
B8A-6.0	6.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**250 J**
B8A-7.0	7.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**240 J**
B8A-8.0	8.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**210 J**
B9-0.5	0.5	04/13/2020	ND<0.739	**3.15**	**57.5**	**0.282**	ND<0.493	**5.45**	**3.55**	**8.26**	**9.59**	ND<0.246	**5.12**	ND<0.739	ND<0.246	ND<0.739	**14.3**	**22.3**	ND<0.0847	ND<200
B9-3.0	3.0	04/13/2020	ND<0.743	**2.16**	**56.5**	ND<0.248	ND<0.495	**4.23**	**2.66**	**4.9**	**3.33**	ND<0.248	**3.85**	ND<0.743	ND<0.248	ND<0.743	**10.9**	**12.4**	ND<0.0862	**360 J**
B9A-4.0	4.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<800
B9A-5.0	5.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**980**
B9A-6.0	6.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**320 J**
B9A-7.0	7.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<200
B9A-8.0	8.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<200
B10-0.5	0.5	04/13/2020	**1.15**	**5.07**	**78.3**	**0.428**	ND<0.488	**9.51**	**5.03**	**18.5**	**47.3**	**0.260**	**12.5**	ND<0.732	ND<0.244	ND<0.732	**21.0**	**51.4**	ND<0.0862	**430**
B10-3.0	3.0	04/13/2020	ND<0.725	**1.55**	**40.0**	**0.378**	ND<0.483	**6.28**	**2.55**	**3.52**	**2.54**	**0.654**	**5.24**	ND<0.725	ND<0.242	ND<0.725	**22.6**	**14.2**	ND<0.0877	**310 J**
B10A-4.0	4.0	05/11/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	**270**
B11-0.5	0.5	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**10.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B11-3.0	3.0	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**2.44**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B12-0.5	0.5	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**19.6**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B12-3.0	3.0	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**4.07**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B13-0.5	0.5	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**18.0**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B13-3.0	3.0	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**4.02**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B14-0.5	0.5	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**4.64**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B14-3.0	3.0	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**3.57**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B15-0.5	0.5	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**11.3**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B15-3.0	3.0	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**10.9**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B16-0.5	0.5	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**9.86**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B16-3.0	3.0	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**5.05**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B17-0.5	0.5	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**4.08**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B17-3.0	3.0	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**3.06**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B18-0.5	0.5	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**10.5**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B18-3.0	3.0	04/13/2020	NA	NA	NA	NA	NA	NA	NA	NA	**11**	NA	NA	NA	NA	NA	NA	NA	NA	NA
B31-0.5	0.5	04/16/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<400
B31-3.0	3.0	04/16/2020	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<800
USEPA RSLs for Soil - Residential (µg/kg)[2]			***31***	***0.68****	***15,000***	***1,600***	***71***	***120,000***	***23***	***3,100***	***82***	***390***	***1,500***	***390***	***390***	***0.78***	***390***	***23,000***	***23***	***300[4]***
DTSC SL for Soil - Residential (µg/kg)[3]			*--*	***0.11****	*--*	***16[3]***	***910***	*--*	*--*	*--*	***80[3]***	*--*	***820[3]***	*--*	*--*	*--*	*--*	*--*	***1.0[3]***	***300[4]***

Key:
NA - Not analyzed
(a) = Enivronmental Protection Agency (EPA) Region IX Regional Screening Levels for Residential Soils
bgs = below ground surface
RSLs= Regional Screening Levels
J = Result is less than the reporting limit but greater than or equal to the method detection limit
mg/kg = milligrams per kilogram
ND<X = not detected above the reporting limit or method detection limit
SL = Screening level
USEPA = United States Environmental Protection Agency
µg/kg = micrograms per kilogram

Notes:
(1) Sample was too small for analysis; B31 was selected as an alternate.
B31 was diluted due to the nature of the soil matrix.
(2) DTSC Human and Ecological Risk Office (HERO) Human Health Risk
Assessment (HHRA) Note 3, April 2019.
(3) Value is DTSC SL non-cancer endpoint
(4) RSL and SL were converted to µg/kg
-- = Note 3 SL not available or references USEPA RSLs
Yellow highlighed results exceed RSL and SL
*DTSC documentation indicates the background concentration for arsenic in Southern California is 12 mg/kg

Table 2, Summary of Soil Analytical Results - Pesticides and Herbicides
17631 Cameron Lane
Huntington Beach, California

Sample ID	Sample Depth (feet bgs)	Date	4,4'-DDD (µg/Kg)	4,4'-DDE (µg/Kg)	4,4'-DDT (µg/Kg)	alpha-Chlordane (µg/Kg)	Chlordane (µg/Kg)	Dieldrin (µg/Kg)	Toxaphene (µg/Kg)	Other Pesticides (µg/Kg)	Herbicides (µg/Kg)
			Pesticides - USEPA Method 8081A								USEPA Method 8151A
B1-0.5	0.5	04/6/2020	ND<5.0	**10**	**5.0**	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B1-3.0	3.0	04/6/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B2-0.5	0.5	04/6/2020	**12**	**360**	**180**	ND<1.0	ND<25	**5.0**	ND<25	ND	NA
B2-3.0	3.0	04/6/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B3-.05	0.5	04/6/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B3-3.0	3.0	04/6/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B4-0.5	0.5	04/6/2020	ND<5.0	**43**	**22**	**6.7**	**33**	**2.8**	ND<25	ND	NA
B4-3.0	3.0	04/6/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B4A-0.5	0.5	04/28/2020	NA	NA	NA	NA	NA	NA	NA	NA	ND
B4A-3.0	3.0	04/28/2020	NA	NA	NA	NA	NA	NA	NA	NA	ND
B5-0.5	0.5	04/6/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B5-3.0	3.0	04/6/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B6-0.5	0.5	04/6/2020	ND<25	**1,400**	**350**	**7.2**	**54**	ND<1.0	**770**	ND	NA
B6-3.0	3.0	04/6/2020	ND<5.0	**18**	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B6A-0.5	0.5	04/28/2020	NA	NA	NA	NA	NA	NA	NA	NA	ND
B6A-3.0	3.0	04/28/2020	NA	NA	NA	NA	NA	NA	NA	NA	ND
B7-0.5	0.5	04/13/2020	**32**	**3,100**	**1,300**	ND<1.0	ND<25	ND<1.0	**1,600**	ND	ND
B7-3.0	3.0	04/13/2020	ND<5.0	**16**	**6.6**	ND<1.0	ND<25	ND<1.0	ND<25	ND	ND
B8-0.5	0.5	04/13/2020	ND<5.0	**270**	**63**	ND<1.0	ND<25	**1.5**	**110**	ND	NA
B8-3.0	3.0	04/13/2020	ND<5.0	**13**	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B9-0.5	0.5	04/13/2020	ND<5.0	**17**	**9.6**	ND<1.0	ND<25	ND<1.0	ND<25	ND	ND
B9-3.0	3.0	04/13/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	ND
B10-0.5	0.5	04/13/2020	ND<5.0	**770**	**410**	**1.8**	ND<25	ND<1.0	**500**	ND	ND
B10-3.0	3.0	04/13/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	ND
B11-0.5	0.5	04/13/2020	**13**	**1,900**	**610**	**1.5**	ND<25	ND<1.0	**1,200**	ND	NA
B11-3.0	3.0	04/13/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B12-0.5	0.5	04/13/2020	**5.7**	**240**	**100**	ND<0.99	ND<25	**1.6**	**59**	ND	NA
B12-3.0	3.0	04/13/2020	ND<5.0	ND<5.0	ND<5.0	ND<0.99	ND<25	ND<0.99	ND<25	ND	NA
B13-0.5	0.5	04/13/2020	**16**	**500**	**100**	ND<1.0	ND<25	**2.5**	**180**	ND	NA
B13-3.0	3.0	04/13/2020	ND<5.0	**7.7**	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B14-0.5	0.5	04/13/2020	**8.2**	**110**	**53**	ND<0.98	ND<25	ND<0.98	ND<25	ND	NA
B14-3.0	3.0	04/13/2020	ND<4.9	ND<4.9	ND<4.9	ND<0.98	ND<25	ND<0.98	ND<25	ND	NA
B15-0.5	0.5	04/13/2020	ND<4.9	ND<4.9	ND<4.9	ND<0.98	ND<25	ND<0.98	ND<25	ND	NA
B15-3.0	3.0	04/13/2020	ND<5.0	ND<5.0	ND<5.0	ND<0.99	ND<25	ND<0.99	ND<25	ND	NA
B16-0.5	0.5	04/13/2020	ND<5.0	**22**	**12**	**2.2**	ND<25	ND<1.0	ND<25	ND	NA
B16-3.0	3.0	04/13/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B17-0.5	0.5	04/13/2020	ND<5.0	**6.0**	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B17-3.0	3.0	04/13/2020	ND<5.0	ND<5.0	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B18-0.5	0.5	04/13/2020	ND<4.9	**20**	**8.2**	**2.1**	ND<25	ND<0.99	ND<25	ND	NA
B18-3.0	3.0	04/13/2020	ND<5.0	ND<5.0	ND<5.0	**1.0**	ND<25	ND<1.0	ND<25	ND	NA
B26-0.5	0.5	04/16/2020	ND<5.0	**230**	**43**	ND<1.0	ND<25	**1.1**	**120**	ND	NA
B26-3.0	3.0	04/16/2020	ND<5.0	**29**	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B27-0.5	0.5	04/16/2020	ND<5.0	**220**	**52**	ND<1.0	ND<25	ND<1.0	**100**	ND	NA
B27-3.0	3.0	04/16/2020	ND<5.0	**400**	**77**	ND<1.0	ND<25	ND<1.0	**230**	ND	NA
B28-0.5	0.5	04/16/2020	ND<5.0	**420**	**130**	ND<1.0	ND<25	**2.6**	**180**	ND	NA
B28-3.0	3.0	04/16/2020	ND<5.0	**33**	ND<5.0	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B29-0.5	0.5	04/16/2020	**95**	**1,000**	**360**	**2.5**	ND<25	ND<1.0	**940**	ND	NA
B29-3.0	3.0	04/16/2020	ND<5.0	**61**	**27**	ND<1.0	ND<25	ND<1.0	**37**	ND	NA
B30-0.5	0.5	04/16/2020	**38**	**460**	**120**	**2.4**	ND<25	ND<1.0	**410**	ND	NA
B30-3.0	3.0	04/16/2020	ND<5.0	**20**	**8.2**	ND<1.0	ND<25	ND<1.0	ND<25	ND	NA
B31-0.5	0.5	04/16/2020	**11**	**650**	**130**	**2.1**	ND<25	ND<1.0	**380**	ND	NA
B31-3.0	3.0	04/16/2020	ND<5.0	**190**	**62**	ND<1.0	ND<25	ND<1.0	**120**	ND	NA
B32-0.5	0.5	04/16/2020	**93**	**1,600**	**440**	ND<1.0	ND<25	ND<1.0	**1,200**	ND	NA
B32-3.0	3.0	04/16/2020	ND<5.0	**85**	**33**	ND<1.0	ND<25	ND<1.0	**50**	ND	NA
USEPA RSLs for Soil - Residential (µg/kg) [1]			*1,900*	*2,000*	*1,900*	*--*	*1,700*	*34*	*490*	*Varies*	*Varies*
DTSC SL for Soil - Residential (µg/kg) [2]			*2,300*	*--*	*--*	*--*	*--*	*--*	*450*	*Varies*	*Varies*

Key:
NA - Not analyzed
(a) = Enivronmental Protection Agency (EPA) Region IX Regional Screening Levels for Residential Soils
bgs = below ground surface
DTSC = California State Department of Toxic Substances Control
ESLs= Environmental Screening Levels
ND<X = not detected above the method detection limit
SL = Screening level
USEPA = United States Environmental Protection Agency
µg/kg = micrograms per kilogram

Notes:
(1) RSLs. November 2019 (Rev. 2) for soil.
(2) DTSC Human and Ecological Risk Office (HERO) Human Health Risk Assessment (HHRA) Note 3, April 2019, Cancer endpoint value
-- = USEPA RSL Not Established; or Note 3 References USEPA RSLs
Yellow highlighed results exceed RSL and SL

Table 3, Summary of Groundwater Analytical Results - Hexavalent Chromium
17631 Cameron Lane
Huntington Beach, California

Sample ID	Date	Hexavalent Chromium (µg/L)
		USEPA Method 218.6
GW-1	05/11/2020	ND<0.038
GW-2	05/11/2020	ND<0.038
GW-3	05/11/2020	ND<0.038
WS-1	05/11/2020	ND<0.038
WS-2	05/11/2020	**0.086 J**

Key:

J = Result is less than the reporting limit but greater than or equal to the method detection limit

µg/L = micrograms per liter

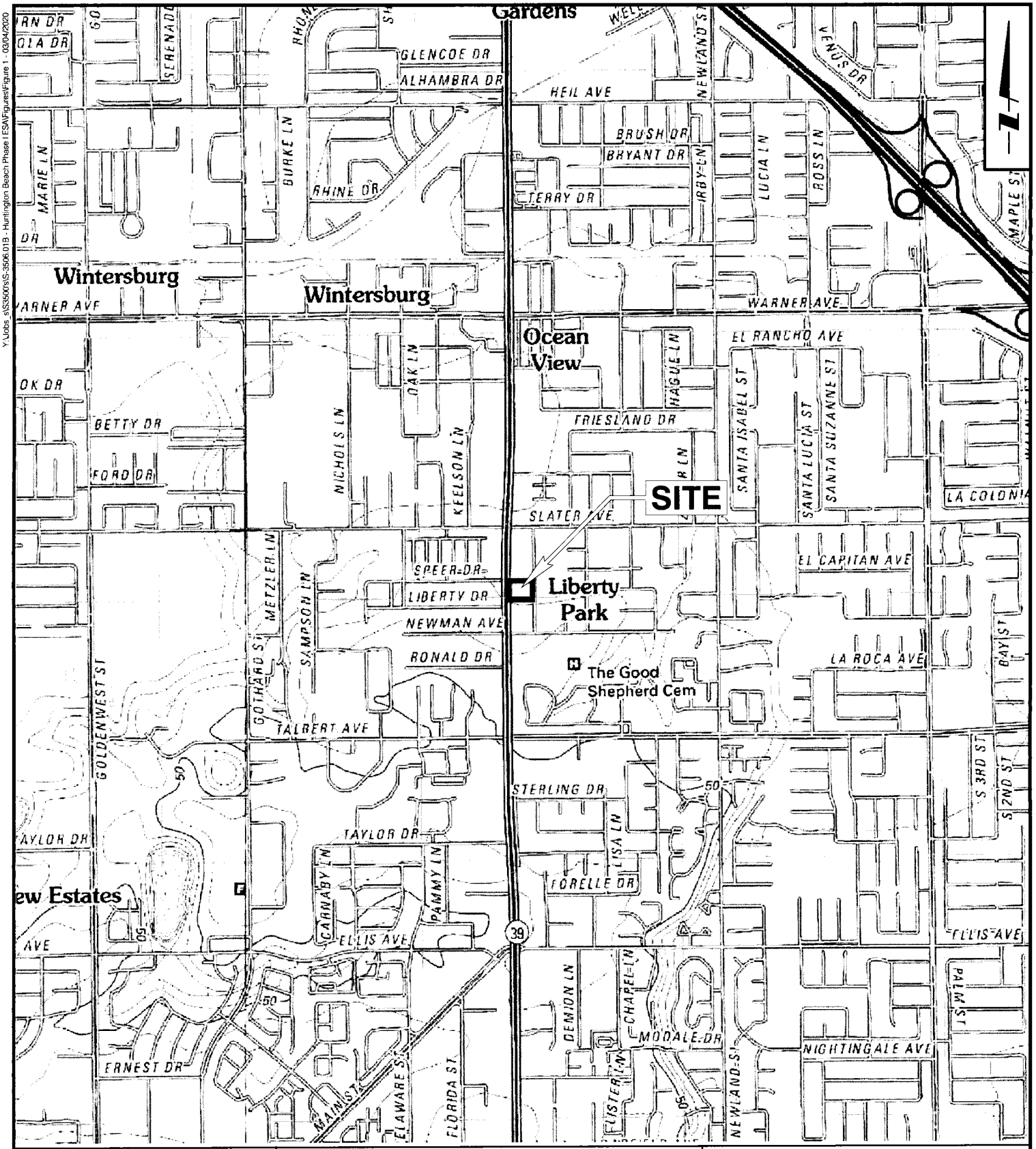
ND<X = not detected above the reporting limit or method detection limit

USEPA = United States Environmental Protection Agency

WS-1 = Duplicate

WS-2 = Equipment blank

Figures



EEC ENVIRONMENTAL

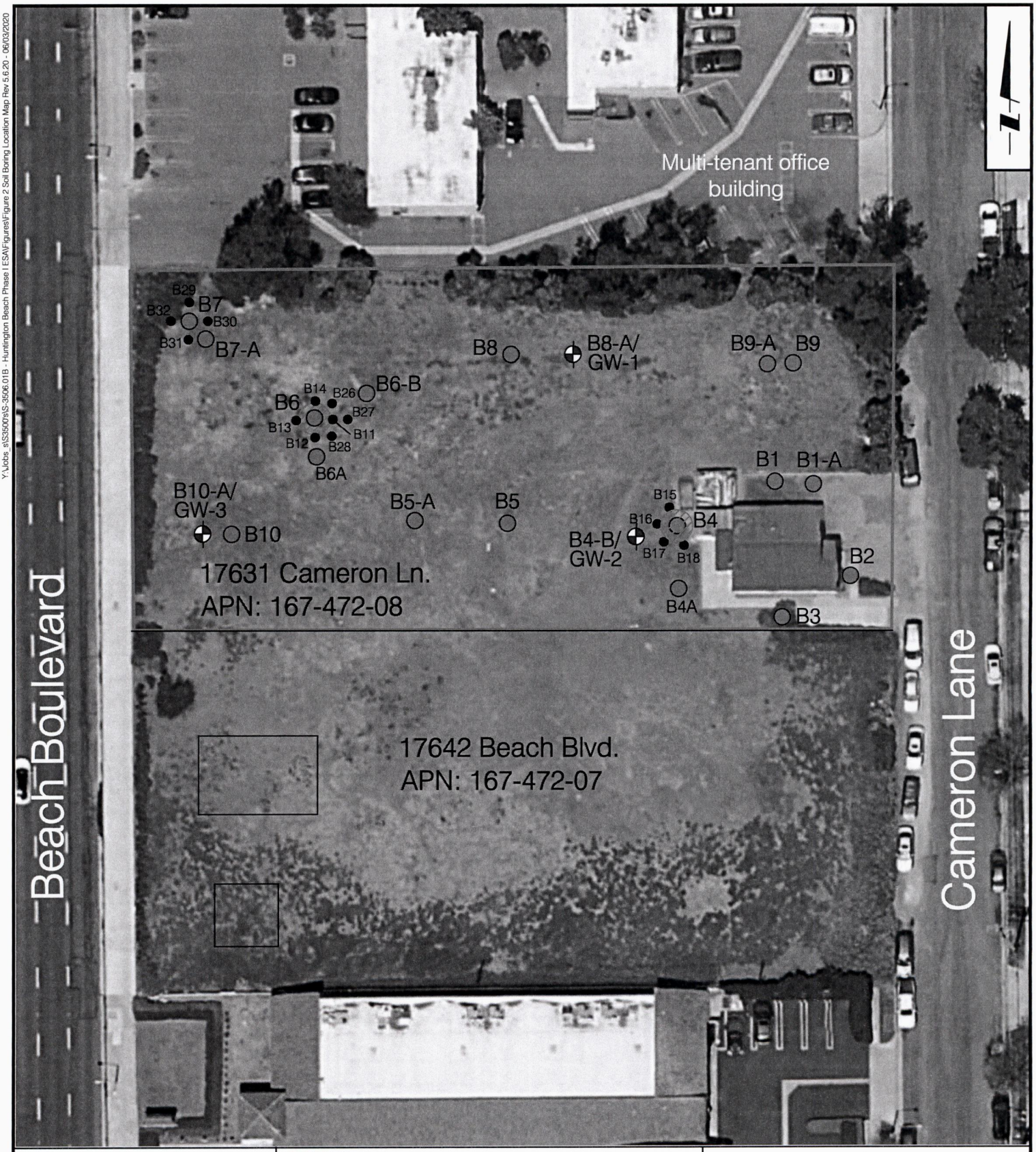
SOURCE
U.S. Geological Survey 7.5 Minute
Topographic Quadrangle Maps
Newport Beach and Seal Beach, CA - 2012

0 0.5 1 MILE
APPROXIMATE SCALE

SITE LOCATION MAP

17631 Cameron Ln.
Huntington Beach, California

Date	Drafter	PE/PG	Project Number	Figure
March 4, 2020	LH	DB	S-3506.01B	1
		PM LH	File S3506-2020-ESA-01	



Y:\Jobs s\S3500's\S-3506.01B - Huntington Beach Phase I ESA\Figures\Figure 2 Soil Boring Location Map Rev 5.6.20 - 06/03/2020

EEC ENVIRONMENTAL

LEGEND

- Subject Property Boundary
- Soil Boring
- Soil Boring with Groundwater Sample
- Confirmation Soil Borings (B11-B18) and Step-out Soil Borings (B26-B32)
- Excavation (not to scale; actual size 3' x 3' x 3')

0 40 80 FEET

APPROXIMATE SCALE

SOIL BORING LOCATION MAP

17631 Cameron Ln.
Huntington Beach, California

Date	Drafter	PE/PG	Project Number	Figure
June 4, 2020	LH	DB	S-3506.02B	2
Base map source: Google		PM LH	File S3506-2020-ESA-02 1080	

Appendix A
Laboratory Reports, Chain-of-Custody Documentation, and Quality Control Data

eurofins | Calscience

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-25057-1
Client Project/Site: City of Huntington Beach / S-3506.02T

For:
EEC Environmental
One City Blvd
Suite 1800
Orange, California 92868

Attn: Laura Holder

Authorized for release by:
4/8/2020 7:07:32 AM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

Table of Contents

Definitions/Glossary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25057-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25057-1

Job ID: 570-25057-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-25057-1

Comments
No additional comments.

Receipt
The samples were received on 4/6/2020 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC Semi VOA
Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for the following sample associated with preparation batch 570-61613 and analytical batch 570-61652 were outside control limits: (570-25057-A-1-A MS) and (570-25057-A-1-B MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method 8081A: The following samples has clear evidence of the presence of chlordane based on the presence of cis and trans chlordane; however, the chlordane peaks in the sample do not closely match the laboratory's Technical Chlordane standard: B4-0.5 (570-25057-7) and B6-0.5 (570-25057-11). As a result, there is increased quantitative uncertainty associated with this result.

Method 8081A: The analyte 4,4'-DDD was diluted due to the nature of the sample matrix: B6-0.5 (570-25057-11) at 5X. Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25057-1

Client Sample ID: B1-0.5

Lab Sample ID: 570-25057-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	10	F1	5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDT	5.0		5.0	ug/Kg	1		8081A	Total/NA
Lead	44.6		0.503	mg/Kg	1		6010B	Total/NA

Client Sample ID: B1-3.0

Lab Sample ID: 570-25057-2

No Detections.

Client Sample ID: B2-0.5

Lab Sample ID: 570-25057-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	12		5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDE	360		100	ug/Kg	20		8081A	Total/NA
4,4'-DDT	180		100	ug/Kg	20		8081A	Total/NA
Dieldrin	5.0		1.0	ug/Kg	1		8081A	Total/NA
Lead	15.6		0.493	mg/Kg	1		6010B	Total/NA

Client Sample ID: B2-3.0

Lab Sample ID: 570-25057-4

No Detections.

Client Sample ID: B3-0.5

Lab Sample ID: 570-25057-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.29		0.483	mg/Kg	1		6010B	Total/NA

Client Sample ID: B3-3.0

Lab Sample ID: 570-25057-6

No Detections.

Client Sample ID: B4-0.5

Lab Sample ID: 570-25057-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	43		25	ug/Kg	5		8081A	Total/NA
4,4'-DDT	22		5.0	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	6.7	p	1.0	ug/Kg	1		8081A	Total/NA
Chlordane	33		25	ug/Kg	1		8081A	Total/NA
Dieldrin	2.8		1.0	ug/Kg	1		8081A	Total/NA
Lead	101		0.488	mg/Kg	1		6010B	Total/NA

Client Sample ID: B4-3.0

Lab Sample ID: 570-25057-8

No Detections.

Client Sample ID: B5-0.5

Lab Sample ID: 570-25057-9

No Detections.

Client Sample ID: B5-3.0

Lab Sample ID: 570-25057-10

No Detections.

Client Sample ID: B6-0.5

Lab Sample ID: 570-25057-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	1400		250	ug/Kg	50		8081A	Total/NA
4,4'-DDT	350		50	ug/Kg	10		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EEC Environmental
Job ID: 570-25057-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B6-0.5 (Continued)

Lab Sample ID: 570-25057-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
alpha-Chlordane	7.2		1.0	ug/Kg	1		8081A	Total/NA
Chlordane	54		25	ug/Kg	1		8081A	Total/NA
Toxaphene	770		25	ug/Kg	1		8081A	Total/NA

Client Sample ID: B6-3.0

Lab Sample ID: 570-25057-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	18		5.0	ug/Kg	1		8081A	Total/NA

Client Sample ID: QA1

Lab Sample ID: 570-25057-13

No Detections.

This Detection Summary does not include radiochemical test results.

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: B1-0.5
Date Collected: 04/06/20 08:05
Date Received: 04/06/20 14:05

Lab Sample ID: 570-25057-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
4,4'-DDE	**10**	**F1**	5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
4,4'-DDT	**5.0**		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Chlordane	ND		25	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:04	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 12:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*23 - 124*	*04/06/20 15:49*	*04/07/20 12:04*	*1*
DCB Decachlorobiphenyl (Surr)	*55*		*20 - 137*	*04/06/20 15:49*	*04/07/20 12:04*	*1*

Client Sample ID: B1-3.0
Date Collected: 04/06/20 08:38
Date Received: 04/06/20 14:05

Lab Sample ID: 570-25057-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
4,4'-DDE	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
4,4'-DDT	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Chlordane	ND		25	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B1-3.0
Date Collected: 04/06/20 08:38
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:18	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*23 - 124*	*04/06/20 15:49*	*04/07/20 12:18*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*20 - 137*	*04/06/20 15:49*	*04/07/20 12:18*	*1*

Client Sample ID: B2-0.5
Date Collected: 04/06/20 09:00
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-3
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**12**		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
4,4'-DDE	**360**		100	ug/Kg		04/06/20 15:49	04/07/20 16:47	20
4,4'-DDT	**180**		100	ug/Kg		04/06/20 15:49	04/07/20 16:47	20
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Chlordane	ND		25	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Dieldrin	**5.0**		1.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:33	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 12:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*23 - 124*	*04/06/20 15:49*	*04/07/20 12:33*	*1*
Tetrachloro-m-xylene	*53*		*23 - 124*	*04/06/20 15:49*	*04/07/20 16:47*	*20*
DCB Decachlorobiphenyl (Surr)	*71*		*20 - 137*	*04/06/20 15:49*	*04/07/20 12:33*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*20 - 137*	*04/06/20 15:49*	*04/07/20 16:47*	*20*

Client Sample ID: B2-3.0
Date Collected: 04/06/20 09:26
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
4,4'-DDE	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
4,4'-DDT	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B2-3.0
Date Collected: 04/06/20 09:26
Date Received: 04/06/20 14:05

Lab Sample ID: 570-25057-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Chlordane	ND		25	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 12:47	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*32*		*23 - 124*	*04/06/20 15:49*	*04/07/20 12:47*	*1*
DCB Decachlorobiphenyl (Surr)	*22*	*p*	*20 - 137*	*04/06/20 15:49*	*04/07/20 12:47*	*1*

Client Sample ID: B3-0.5
Date Collected: 04/06/20 09:42
Date Received: 04/06/20 14:05

Lab Sample ID: 570-25057-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
4,4'-DDE	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
4,4'-DDT	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Chlordane	ND		25	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:01	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 13:01	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*37*		*23 - 124*	*04/06/20 15:49*	*04/07/20 13:01*	*1*
DCB Decachlorobiphenyl (Surr)	*36*		*20 - 137*	*04/06/20 15:49*	*04/07/20 13:01*	*1*

Client Sample ID: B3-3.0
Date Collected: 04/06/20 10:03
Date Received: 04/06/20 14:05

Lab Sample ID: 570-25057-6
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
4,4'-DDE	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
4,4'-DDT	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Chlordane	ND		25	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:15	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 13:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*48*		*23 - 124*	*04/06/20 15:49*	*04/07/20 13:15*	*1*
DCB Decachlorobiphenyl (Surr)	*44*		*20 - 137*	*04/06/20 15:49*	*04/07/20 13:15*	*1*

Client Sample ID: B4-0.5
Date Collected: 04/06/20 10:25
Date Received: 04/06/20 14:05

Lab Sample ID: 570-25057-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
4,4'-DDE	**43**		25	ug/Kg		04/06/20 15:49	04/07/20 17:00	5
4,4'-DDT	**22**		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
alpha-Chlordane	**6.7**	**p**	1.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Chlordane	**33**		25	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Dieldrin	**2.8**		1.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B4-0.5
Lab Sample ID: 570-25057-7
Date Collected: 04/06/20 10:25
Matrix: Solid
Date Received: 04/06/20 14:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:29	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 13:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*23 - 124*	*04/06/20 15:49*	*04/07/20 13:29*	*1*
Tetrachloro-m-xylene	*52*		*23 - 124*	*04/06/20 15:49*	*04/07/20 17:00*	*5*
DCB Decachlorobiphenyl (Surr)	*59*		*20 - 137*	*04/06/20 15:49*	*04/07/20 13:29*	*1*
DCB Decachlorobiphenyl (Surr)	*53*		*20 - 137*	*04/06/20 15:49*	*04/07/20 17:00*	*5*

Client Sample ID: B4-3.0
Lab Sample ID: 570-25057-8
Date Collected: 04/06/20 10:40
Matrix: Solid
Date Received: 04/06/20 14:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
4,4'-DDE	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
4,4'-DDT	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Chlordane	ND		25	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:44	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 13:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*23 - 124*	*04/06/20 15:49*	*04/07/20 13:44*	*1*
DCB Decachlorobiphenyl (Surr)	*65*		*20 - 137*	*04/06/20 15:49*	*04/07/20 13:44*	*1*

Client Sample ID: B5-0.5
Lab Sample ID: 570-25057-9
Date Collected: 04/06/20 11:15
Matrix: Solid
Date Received: 04/06/20 14:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B5-0.5
Lab Sample ID: 570-25057-9
Date Collected: 04/06/20 11:15
Matrix: Solid
Date Received: 04/06/20 14:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
4,4'-DDT	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Chlordane	ND		25	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 13:58	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*23 - 124*	*04/06/20 15:49*	*04/07/20 13:58*	*1*
DCB Decachlorobiphenyl (Surr)	*53*		*20 - 137*	*04/06/20 15:49*	*04/07/20 13:58*	*1*

Client Sample ID: B5-3.0
Lab Sample ID: 570-25057-10
Date Collected: 04/06/20 11:50
Matrix: Solid
Date Received: 04/06/20 14:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
4,4'-DDE	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
4,4'-DDT	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Chlordane	ND		25	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B5-3.0
Date Collected: 04/06/20 11:50
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:12	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 14:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*43*		*23 - 124*	*04/06/20 15:49*	*04/07/20 14:12*	*1*
DCB Decachlorobiphenyl (Surr)	*40*		*20 - 137*	*04/06/20 15:49*	*04/07/20 14:12*	*1*

Client Sample ID: B6-0.5
Date Collected: 04/06/20 11:59
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-11
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		25	ug/Kg		04/06/20 15:49	04/07/20 17:14	5
4,4'-DDE	**1400**		250	ug/Kg		04/06/20 15:49	04/07/20 17:10	50
4,4'-DDT	**350**		50	ug/Kg		04/06/20 15:49	04/07/20 16:56	10
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
alpha-Chlordane	**7.2**		1.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Chlordane	**54**		25	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:26	1
Toxaphene	**770**		25	ug/Kg		04/06/20 15:49	04/07/20 14:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*23 - 124*	*04/06/20 15:49*	*04/07/20 14:26*	*1*
Tetrachloro-m-xylene	*63*		*23 - 124*	*04/06/20 15:49*	*04/07/20 16:56*	*10*
Tetrachloro-m-xylene	*72*		*23 - 124*	*04/06/20 15:49*	*04/07/20 17:10*	*50*
Tetrachloro-m-xylene	*53*		*23 - 124*	*04/06/20 15:49*	*04/07/20 17:14*	*5*
DCB Decachlorobiphenyl (Surr)	*55*		*20 - 137*	*04/06/20 15:49*	*04/07/20 14:26*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*20 - 137*	*04/06/20 15:49*	*04/07/20 16:56*	*10*
DCB Decachlorobiphenyl (Surr)	*65*		*20 - 137*	*04/06/20 15:49*	*04/07/20 17:10*	*50*
DCB Decachlorobiphenyl (Surr)	*49*		*20 - 137*	*04/06/20 15:49*	*04/07/20 17:14*	*5*

Client Sample ID: B6-3.0
Date Collected: 04/06/20 12:20
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
4,4'-DDE	**18**		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B6-3.0
Lab Sample ID: 570-25057-12
Date Collected: 04/06/20 12:20
Matrix: Solid
Date Received: 04/06/20 14:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Chlordane	ND		25	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:40	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 14:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*23 - 124*	*04/06/20 15:49*	*04/07/20 14:40*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*20 - 137*	*04/06/20 15:49*	*04/07/20 14:40*	*1*

Client Sample ID: QA1
Lab Sample ID: 570-25057-13
Date Collected: 04/06/20 00:00
Matrix: Solid
Date Received: 04/06/20 14:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
4,4'-DDE	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
4,4'-DDT	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Chlordane	ND		25	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:49	04/07/20 14:55	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: QA1
Lab Sample ID: 570-25057-13
Date Collected: 04/06/20 00:00
Matrix: Solid
Date Received: 04/06/20 14:05

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		25	ug/Kg		04/06/20 15:49	04/07/20 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*23 - 124*	*04/06/20 15:49*	*04/07/20 14:55*	*1*
DCB Decachlorobiphenyl (Surr)	*44*		*20 - 137*	*04/06/20 15:49*	*04/07/20 14:55*	*1*

Method: 6010B - Metals (ICP)

Client Sample ID: B1-0.5
Date Collected: 04/06/20 08:05
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	44.6		0.503	mg/Kg		04/07/20 06:55	04/07/20 12:08	1

Client Sample ID: B2-0.5
Date Collected: 04/06/20 09:00
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-3
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	15.6		0.493	mg/Kg		04/07/20 06:55	04/07/20 12:10	1

Client Sample ID: B3-0.5
Date Collected: 04/06/20 09:42
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.29		0.483	mg/Kg		04/07/20 06:55	04/07/20 12:12	1

Client Sample ID: B4-0.5
Date Collected: 04/06/20 10:25
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	101		0.488	mg/Kg		04/07/20 06:55	04/07/20 12:14	1

Surrogate Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25057-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(23-124)	(20-137)
570-25057-1	B1-0.5	62	55
570-25057-1 MS	B1-0.5	95	86
570-25057-1 MSD	B1-0.5	80	72
570-25057-2	B1-3.0	69	60
570-25057-3	B2-0.5	53	65
570-25057-3	B2-0.5	68	71
570-25057-4	B2-3.0	32	22 p
570-25057-5	B3-0.5	37	36
570-25057-6	B3-3.0	48	44
570-25057-7	B4-0.5	52	53
570-25057-7	B4-0.5	58	59
570-25057-8	B4-3.0	79	65
570-25057-9	B5-0.5	56	53
570-25057-10	B5-3.0	43	40
570-25057-11	B6-0.5	53	49
570-25057-11	B6-0.5	62	55
570-25057-11	B6-0.5	63	60
570-25057-11	B6-0.5	72	65
570-25057-12	B6-3.0	90	81
570-25057-13	QA1	45	44
LCS 570-61613/2-A	Lab Control Sample	107	101
LCSD 570-61613/3-A	Lab Control Sample Dup	107	104
MB 570-61613/1-A	Method Blank	77	68

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 570-61613/1-A
Matrix: Solid
Analysis Batch: 61652

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61613

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
4,4'-DDE	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
4,4'-DDT	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Aldrin	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
alpha-BHC	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
alpha-Chlordane	ND		1.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
beta-BHC	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Chlordane	ND		25	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
delta-BHC	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Dieldrin	ND		1.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Endosulfan I	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Endosulfan II	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Endrin	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Endrin aldehyde	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Endrin ketone	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
gamma-Chlordane	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
gamma-BHC	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Heptachlor	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Methoxychlor	ND		5.0	ug/Kg		04/06/20 15:48	04/07/20 10:53	1
Toxaphene	ND		25	ug/Kg		04/06/20 15:48	04/07/20 10:53	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*23 - 124*	*04/06/20 15:48*	*04/07/20 10:53*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*20 - 137*	*04/06/20 15:48*	*04/07/20 10:53*	*1*

Lab Sample ID: LCS 570-61613/2-A
Matrix: Solid
Analysis Batch: 61652

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	12.5	11.43		ug/Kg		91	50 - 149
4,4'-DDE	12.5	11.53		ug/Kg		92	48 - 144
4,4'-DDT	12.5	12.43		ug/Kg		99	37 - 149
Aldrin	12.5	11.85		ug/Kg		95	43 - 139
alpha-BHC	12.5	10.98		ug/Kg		88	51 - 138
alpha-Chlordane	12.5	10.76		ug/Kg		86	47 - 136
beta-BHC	12.5	12.10		ug/Kg		97	47 - 135
delta-BHC	12.5	9.826		ug/Kg		79	40 - 146
Dieldrin	12.5	11.28		ug/Kg		90	48 - 141
Endosulfan I	12.5	10.89		ug/Kg		87	43 - 139
Endosulfan II	12.5	11.22		ug/Kg		90	48 - 142
Endosulfan sulfate	12.5	11.54		ug/Kg		92	47 - 144
Endrin	12.5	10.90		ug/Kg		87	35 - 144
Endrin aldehyde	12.5	10.37		ug/Kg		83	35 - 138
gamma-Chlordane	12.5	10.32	p	ug/Kg		83	33 - 155
gamma-BHC	12.5	10.79		ug/Kg		86	51 - 137

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 570-61613/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 61652
Prep Batch: 61613

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	12.5	10.98		ug/Kg		88	47 - 137
Heptachlor epoxide	12.5	11.24		ug/Kg		90	49 - 135
Methoxychlor	12.5	12.32		ug/Kg		99	39 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*107*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*101*		*20 - 137*

Lab Sample ID: LCSD 570-61613/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 61652
Prep Batch: 61613

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	12.5	10.75		ug/Kg		86	50 - 149	6	17
4,4'-DDE	12.5	10.62		ug/Kg		85	48 - 144	8	18
4,4'-DDT	12.5	10.98		ug/Kg		88	37 - 149	12	17
Aldrin	12.5	10.56		ug/Kg		84	43 - 139	12	15
alpha-BHC	12.5	10.56		ug/Kg		84	51 - 138	4	17
alpha-Chlordane	12.5	10.24		ug/Kg		82	47 - 136	5	16
beta-BHC	12.5	10.74		ug/Kg		86	47 - 135	12	17
delta-BHC	12.5	9.092		ug/Kg		73	40 - 146	8	20
Dieldrin	12.5	10.81		ug/Kg		86	48 - 141	4	16
Endosulfan I	12.5	10.50		ug/Kg		84	43 - 139	4	16
Endosulfan II	12.5	11.12		ug/Kg		89	48 - 142	1	16
Endosulfan sulfate	12.5	11.26		ug/Kg		90	47 - 144	2	16
Endrin	12.5	10.34		ug/Kg		83	35 - 144	5	18
Endrin aldehyde	12.5	9.860		ug/Kg		79	35 - 138	5	13
gamma-Chlordane	12.5	10.40		ug/Kg		83	33 - 155	1	59
gamma-BHC	12.5	10.32		ug/Kg		83	51 - 137	4	17
Heptachlor	12.5	10.88		ug/Kg		87	47 - 137	1	17
Heptachlor epoxide	12.5	10.32		ug/Kg		83	49 - 135	9	17
Methoxychlor	12.5	11.94		ug/Kg		96	39 - 142	3	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*107*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*104*		*20 - 137*

Lab Sample ID: 570-25057-1 MS
Client Sample ID: B1-0.5
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 61652
Prep Batch: 61613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		12.3	9.024		ug/Kg		73	12 - 180
4,4'-DDE	10	F1	12.3	8.778	F1	ug/Kg		-10	8 - 184
4,4'-DDT	5.0		12.3	8.652		ug/Kg		29	2 - 187
Aldrin	ND		12.3	8.804		ug/Kg		71	9 - 153
alpha-BHC	ND		12.3	8.778		ug/Kg		71	10 - 149
alpha-Chlordane	ND		12.3	8.433		ug/Kg		68	9 - 161

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 570-25057-1 MS
Matrix: Solid
Analysis Batch: 61652

Client Sample ID: B1-0.5
Prep Type: Total/NA
Prep Batch: 61613

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	ND		12.3	9.012		ug/Kg		73	9 - 156
delta-BHC	ND		12.3	7.817		ug/Kg		63	6 - 162
Dieldrin	ND		12.3	8.988		ug/Kg		73	11 - 164
Endosulfan I	ND		12.3	8.718		ug/Kg		71	4 - 156
Endosulfan II	ND		12.3	9.233		ug/Kg		75	12 - 161
Endosulfan sulfate	ND		12.3	9.381		ug/Kg		76	10 - 165
Endrin	ND		12.3	7.993		ug/Kg		65	6 - 166
Endrin aldehyde	ND		12.3	8.611		ug/Kg		70	1 - 156
gamma-Chlordane	ND	F2 F1 * *1	12.3	8.599		ug/Kg		70	7 - 177
gamma-BHC	ND		12.3	8.601		ug/Kg		70	9 - 154
Heptachlor	ND		12.3	9.100		ug/Kg		74	3 - 150
Heptachlor epoxide	ND		12.3	8.658		ug/Kg		70	7 - 169
Methoxychlor	ND		12.3	9.168		ug/Kg		74	8 - 163

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*95*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*86*		*20 - 137*

Lab Sample ID: 570-25057-1 MSD
Matrix: Solid
Analysis Batch: 61652

Client Sample ID: B1-0.5
Prep Type: Total/NA
Prep Batch: 61613

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		12.5	8.932		ug/Kg		72	12 - 180	1	79
4,4'-DDE	10	F1	12.5	8.819	F1	ug/Kg		-10	8 - 184	0	76
4,4'-DDT	5.0		12.5	9.389		ug/Kg		35	2 - 187	8	78
Aldrin	ND		12.5	8.620		ug/Kg		69	9 - 153	2	77
alpha-BHC	ND		12.5	8.685		ug/Kg		70	10 - 149	1	85
alpha-Chlordane	ND		12.5	8.281		ug/Kg		66	9 - 161	2	79
beta-BHC	ND		12.5	8.752	p	ug/Kg		70	9 - 156	3	78
delta-BHC	ND		12.5	7.613		ug/Kg		61	6 - 162	3	85
Dieldrin	ND		12.5	8.774		ug/Kg		70	11 - 164	2	77
Endosulfan I	ND		12.5	8.501		ug/Kg		68	4 - 156	3	77
Endosulfan II	ND		12.5	8.913		ug/Kg		71	12 - 161	4	77
Endosulfan sulfate	ND		12.5	9.305		ug/Kg		75	10 - 165	1	73
Endrin	ND		12.5	8.524		ug/Kg		68	6 - 166	6	82
Endrin aldehyde	ND		12.5	8.550		ug/Kg		69	1 - 156	1	83
gamma-Chlordane	ND		12.5	8.427	p	ug/Kg		68	7 - 177	7	84
gamma-BHC	ND		12.5	8.549		ug/Kg		69	9 - 154	1	79
Heptachlor	ND		12.5	8.387		ug/Kg		67	3 - 150	8	85
Heptachlor epoxide	ND		12.5	8.636		ug/Kg		69	7 - 169	0	79
Methoxychlor	ND		12.5	9.931		ug/Kg		80	8 - 163	8	78

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*72*		*20 - 137*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-61674/1-A
Matrix: Solid
Analysis Batch: 61755

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 61674

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.488	mg/Kg		04/07/20 06:55	04/07/20 11:42	1

Lab Sample ID: LCS 570-61674/2-A
Matrix: Solid
Analysis Batch: 61755

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 61674

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	24.6	24.13		mg/Kg		98	80 - 120

Lab Sample ID: LCSD 570-61674/3-A
Matrix: Solid
Analysis Batch: 61755

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 61674

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	24.5	24.13		mg/Kg		98	80 - 120	0	20

Lab Sample ID: 570-25008-A-1-E MS
Matrix: Solid
Analysis Batch: 61755

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 61674

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	6.16		24.6	30.08		mg/Kg		97	75 - 125

Lab Sample ID: 570-25008-A-1-F MSD
Matrix: Solid
Analysis Batch: 61755

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 61674

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	6.16		24.8	30.23		mg/Kg		97	75 - 125	1	20

GC Semi VOA

Prep Batch: 61613

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25057-1	B1-0.5	Total/NA	Solid	3545	
570-25057-2	B1-3.0	Total/NA	Solid	3545	
570-25057-3	B2-0.5	Total/NA	Solid	3545	
570-25057-4	B2-3.0	Total/NA	Solid	3545	
570-25057-5	B3-0.5	Total/NA	Solid	3545	
570-25057-6	B3-3.0	Total/NA	Solid	3545	
570-25057-7	B4-0.5	Total/NA	Solid	3545	
570-25057-8	B4-3.0	Total/NA	Solid	3545	
570-25057-9	B5-0.5	Total/NA	Solid	3545	
570-25057-10	B5-3.0	Total/NA	Solid	3545	
570-25057-11	B6-0.5	Total/NA	Solid	3545	
570-25057-12	B6-3.0	Total/NA	Solid	3545	
570-25057-13	QA1	Total/NA	Solid	3545	
MB 570-61613/1-A	Method Blank	Total/NA	Solid	3545	
LCS 570-61613/2-A	Lab Control Sample	Total/NA	Solid	3545	
LCSD 570-61613/3-A	Lab Control Sample Dup	Total/NA	Solid	3545	
570-25057-1 MS	B1-0.5	Total/NA	Solid	3545	
570-25057-1 MSD	B1-0.5	Total/NA	Solid	3545	

Analysis Batch: 61648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25057-3	B2-0.5	Total/NA	Solid	8081A	61613
570-25057-7	B4-0.5	Total/NA	Solid	8081A	61613
570-25057-11	B6-0.5	Total/NA	Solid	8081A	61613

Analysis Batch: 61652

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25057-1	B1-0.5	Total/NA	Solid	8081A	61613
570-25057-2	B1-3.0	Total/NA	Solid	8081A	61613
570-25057-3	B2-0.5	Total/NA	Solid	8081A	61613
570-25057-4	B2-3.0	Total/NA	Solid	8081A	61613
570-25057-5	B3-0.5	Total/NA	Solid	8081A	61613
570-25057-6	B3-3.0	Total/NA	Solid	8081A	61613
570-25057-7	B4-0.5	Total/NA	Solid	8081A	61613
570-25057-8	B4-3.0	Total/NA	Solid	8081A	61613
570-25057-9	B5-0.5	Total/NA	Solid	8081A	61613
570-25057-10	B5-3.0	Total/NA	Solid	8081A	61613
570-25057-11	B6-0.5	Total/NA	Solid	8081A	61613
570-25057-11	B6-0.5	Total/NA	Solid	8081A	61613
570-25057-11	B6-0.5	Total/NA	Solid	8081A	61613
570-25057-12	B6-3.0	Total/NA	Solid	8081A	61613
570-25057-13	QA1	Total/NA	Solid	8081A	61613
MB 570-61613/1-A	Method Blank	Total/NA	Solid	8081A	61613
LCS 570-61613/2-A	Lab Control Sample	Total/NA	Solid	8081A	61613
LCSD 570-61613/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	61613
570-25057-1 MS	B1-0.5	Total/NA	Solid	8081A	61613
570-25057-1 MSD	B1-0.5	Total/NA	Solid	8081A	61613

Metals

Prep Batch: 61674

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25057-1	B1-0.5	Total/NA	Solid	3050B	
570-25057-3	B2-0.5	Total/NA	Solid	3050B	
570-25057-5	B3-0.5	Total/NA	Solid	3050B	
570-25057-7	B4-0.5	Total/NA	Solid	3050B	
MB 570-61674/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-61674/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-61674/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-25008-A-1-E MS	Matrix Spike	Total/NA	Solid	3050B	
570-25008-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 61755

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25057-1	B1-0.5	Total/NA	Solid	6010B	61674
570-25057-3	B2-0.5	Total/NA	Solid	6010B	61674
570-25057-5	B3-0.5	Total/NA	Solid	6010B	61674
570-25057-7	B4-0.5	Total/NA	Solid	6010B	61674
MB 570-61674/1-A	Method Blank	Total/NA	Solid	6010B	61674
LCS 570-61674/2-A	Lab Control Sample	Total/NA	Solid	6010B	61674
LCSD 570-61674/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	61674
570-25008-A-1-E MS	Matrix Spike	Total/NA	Solid	6010B	61674
570-25008-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	61674

Lab Chronicle

Client: EEC Environmental
Job ID: 570-25057-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B1-0.5
Lab Sample ID: 570-25057-1
Date Collected: 04/06/20 08:05
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.05 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 12:04	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			1.99 g	100 mL	61674	04/07/20 06:55	WL8G	ECL 1
Total/NA	Analysis	6010B		1			61755	04/07/20 12:08	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B1-3.0
Lab Sample ID: 570-25057-2
Date Collected: 04/06/20 08:38
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.06 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 12:18	UHHN	ECL 1
	Instrument ID: GC44									

Client Sample ID: B2-0.5
Lab Sample ID: 570-25057-3
Date Collected: 04/06/20 09:00
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.07 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 12:33	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.07 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		20			61648	04/07/20 16:47	UHHN	ECL 1
	Instrument ID: GC51									
Total/NA	Prep	3050B			2.03 g	100 mL	61674	04/07/20 06:55	WL8G	ECL 1
Total/NA	Analysis	6010B		1			61755	04/07/20 12:10	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B2-3.0
Lab Sample ID: 570-25057-4
Date Collected: 04/06/20 09:26
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			19.99 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 12:47	UHHN	ECL 1
	Instrument ID: GC44									

Lab Chronicle

Client: EEC Environmental
Job ID: 570-25057-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B3-0.5
Lab Sample ID: 570-25057-5
Date Collected: 04/06/20 09:42
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.01 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 13:01	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.07 g	100 mL	61674	04/07/20 06:55	WL8G	ECL 1
Total/NA	Analysis	6010B		1			61755	04/07/20 12:12	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B3-3.0
Lab Sample ID: 570-25057-6
Date Collected: 04/06/20 10:03
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.03 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 13:15	UHHN	ECL 1
	Instrument ID: GC44									

Client Sample ID: B4-0.5
Lab Sample ID: 570-25057-7
Date Collected: 04/06/20 10:25
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.04 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 13:29	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.04 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		5			61648	04/07/20 17:00	UHHN	ECL 1
	Instrument ID: GC51									
Total/NA	Prep	3050B			2.05 g	100 mL	61674	04/07/20 06:55	WL8G	ECL 1
Total/NA	Analysis	6010B		1			61755	04/07/20 12:14	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B4-3.0
Lab Sample ID: 570-25057-8
Date Collected: 04/06/20 10:40
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.05 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 13:44	UHHN	ECL 1
	Instrument ID: GC44									

Lab Chronicle

Client: EEC Environmental
Job ID: 570-25057-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B5-0.5
Lab Sample ID: 570-25057-9
Date Collected: 04/06/20 11:15
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.06 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 13:58	UHHN	ECL 1
	Instrument ID: GC44									

Client Sample ID: B5-3.0
Lab Sample ID: 570-25057-10
Date Collected: 04/06/20 11:50
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.00 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 14:12	UHHN	ECL 1
	Instrument ID: GC44									

Client Sample ID: B6-0.5
Lab Sample ID: 570-25057-11
Date Collected: 04/06/20 11:59
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.03 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 14:26	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.03 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		10			61652	04/07/20 16:56	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.03 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		50			61652	04/07/20 17:10	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.03 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		5			61648	04/07/20 17:14	UHHN	ECL 1
	Instrument ID: GC51									

Client Sample ID: B6-3.0
Lab Sample ID: 570-25057-12
Date Collected: 04/06/20 12:20
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.00 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 14:40	UHHN	ECL 1
	Instrument ID: GC44									

Lab Chronicle

Client: EEC Environmental
Job ID: 570-25057-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: QA1
Lab Sample ID: 570-25057-13

Date Collected: 04/06/20 00:00
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.0 g	10 mL	61613	04/06/20 15:49	USUL	ECL 1
Total/NA	Analysis	8081A		1			61652	04/07/20 14:55	UHHN	ECL 1
	Instrument ID: GC44									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: EEC Environmental
Job ID: 570-25057-1
Project/Site: City of Huntington Beach / S-3506.02T

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: EEC Environmental
Job ID: 570-25057-1
Project/Site: City of Huntington Beach / S-3506.02T

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	ECL 1
6010B	Metals (ICP)	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1
3545	Pressurized Fluid Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: EEC Environmental
Job ID: 570-25057-1
Project/Site: City of Huntington Beach / S-3506.02T

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-25057-1	B1-0.5	Solid	04/06/20 08:05	04/06/20 14:05	
570-25057-2	B1-3.0	Solid	04/06/20 08:38	04/06/20 14:05	
570-25057-3	B2-0.5	Solid	04/06/20 09:00	04/06/20 14:05	
570-25057-4	B2-3.0	Solid	04/06/20 09:26	04/06/20 14:05	
570-25057-5	B3-0.5	Solid	04/06/20 09:42	04/06/20 14:05	
570-25057-6	B3-3.0	Solid	04/06/20 10:03	04/06/20 14:05	
570-25057-7	B4-0.5	Solid	04/06/20 10:25	04/06/20 14:05	
570-25057-8	B4-3.0	Solid	04/06/20 10:40	04/06/20 14:05	
570-25057-9	B5-0.5	Solid	04/06/20 11:15	04/06/20 14:05	
570-25057-10	B5-3.0	Solid	04/06/20 11:50	04/06/20 14:05	
570-25057-11	B6-0.5	Solid	04/06/20 11:59	04/06/20 14:05	
570-25057-12	B6-3.0	Solid	04/06/20 12:20	04/06/20 14:05	
570-25057-13	QA1	Solid	04/06/20 00:00	04/06/20 14:05	

eurofins | Calscience
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

570-25057 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: April 6, 2020

PAGE: 1 OF 1

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
ADDRESS: One City Blvd. West #1800	P.O. NO.:
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Allison Burnap
TEL: (714) 667-2300 FAX: (714) 667-2310 E-MAIL: (SEE BELOW)	LAB CONTACT OR QUOTE NO.:
	SAMPLER(S): (SIGNATURE) AllisonBurnap
	LAB USE ONLY

TURNAROUND TIME:
☐ SAME DAY ■ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com
Also: aburnap@eecenvironmental.com

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	OCPs EPA 8081A	Lead EPA 6010B
1	B1-0.5	North of residence	4/6/20	0805	SO	1		X	X
2	B1-3.0	North of residence		0838	SO	1		X	
3	B2-0.5	East of residence		0900	SO	1		X	X
4	B2-3.0	East of residence		0926	SO	1		X	
5	B3-0.5	South of residence		0942	SO	1		X	X
6	B3-3.0	South of residence		1003	SO	1		X	
7	B4-0.5	West of residence		1025	SO	1		X	X
8	B4-3.0	West of residence		1040	SO	1		X	
9	B5-0.5	South central portion of residential lot		1115	SO	1		X	
10	B5-3.0	South central portion of residential lot		1150	SO	1		X	
11	B6-0.5	West portion of residential lot		1159	SO	1		X	
12	B6-3.0	West portion of residential lot	↓	1220	SO	1		X	
13	QA1	Duplicate	4/6/20	—	SO	1		X	

Relinquished by: (Signature)	Received by: (Signature) EEI	Date: 04/06/2020	Time: 1405
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

3.6/2.7 SCC

06/01/10 Revision

Login Sample Receipt Checklist

Client: EEC Environmental

Job Number: 570-25057-1

Login Number: 25057
List Number: 1
Creator: Soriano, Precy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-25057-2
Client Project/Site: City of Huntington Beach / S-3506.02T

For:
EEC Environmental
One City Blvd
Suite 1800
Orange, California 92868

Attn: Laura Holder

Authorized for release by:
4/10/2020 9:41:04 AM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

Table of Contents

Definitions/Glossary

Client: EEC Environmental
Job ID: 570-25057-2
Project/Site: City of Huntington Beach / S-3506.02T

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25057-2

Job ID: 570-25057-2

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-25057-2

Comments
No additional comments.

Receipt
The samples were received on 4/6/2020 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

Metals
Method 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-62199 and analytical batch 570-62245 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: EEC Environmental
Job ID: 570-25057-2
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B1-3.0
Lab Sample ID: 570-25057-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.23		0.498	mg/Kg	1		6010B	Total/NA

Client Sample ID: B2-3.0
Lab Sample ID: 570-25057-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.52		0.518	mg/Kg	1		6010B	Total/NA

Client Sample ID: B3-3.0
Lab Sample ID: 570-25057-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.57		0.493	mg/Kg	1		6010B	Total/NA

Client Sample ID: B4-3.0
Lab Sample ID: 570-25057-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.81		0.513	mg/Kg	1		6010B	Total/NA

Client Sample ID: B5-0.5
Lab Sample ID: 570-25057-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	17.9		0.503	mg/Kg	1		6010B	Total/NA

Client Sample ID: B5-3.0
Lab Sample ID: 570-25057-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.43		0.483	mg/Kg	1		6010B	Total/NA

Client Sample ID: B6-0.5
Lab Sample ID: 570-25057-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.62		0.515	mg/Kg	1		6010B	Total/NA

Client Sample ID: B6-3.0
Lab Sample ID: 570-25057-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	12.8		0.483	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 6010B - Metals (ICP)

Client Sample ID: B1-3.0
Date Collected: 04/06/20 08:38
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.23		0.498	mg/Kg		04/09/20 10:20	04/09/20 19:46	1

Client Sample ID: B2-3.0
Date Collected: 04/06/20 09:26
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.52		0.518	mg/Kg		04/09/20 10:20	04/09/20 19:48	1

Client Sample ID: B3-3.0
Date Collected: 04/06/20 10:03
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-6
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.57		0.493	mg/Kg		04/09/20 10:20	04/09/20 19:50	1

Client Sample ID: B4-3.0
Date Collected: 04/06/20 10:40
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.81		0.513	mg/Kg		04/09/20 10:20	04/09/20 19:52	1

Client Sample ID: B5-0.5
Date Collected: 04/06/20 11:15
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-9
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17.9		0.503	mg/Kg		04/09/20 10:20	04/09/20 19:54	1

Client Sample ID: B5-3.0
Date Collected: 04/06/20 11:50
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.43		0.483	mg/Kg		04/09/20 10:20	04/09/20 19:57	1

Client Sample ID: B6-0.5
Date Collected: 04/06/20 11:59
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-11
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.62		0.515	mg/Kg		04/09/20 10:20	04/09/20 19:59	1

Client Sample ID: B6-3.0
Date Collected: 04/06/20 12:20
Date Received: 04/06/20 14:05
Lab Sample ID: 570-25057-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	12.8		0.483	mg/Kg		04/09/20 10:20	04/09/20 20:00	1

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-62199/1-A
Matrix: Solid
Analysis Batch: 62245

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62199

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.500	mg/Kg		04/09/20 10:20	04/09/20 18:37	1

Lab Sample ID: LCS 570-62199/2-A
Matrix: Solid
Analysis Batch: 62245

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62199

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	25.1	23.79		mg/Kg		95	80 - 120

Lab Sample ID: LCSD 570-62199/3-A
Matrix: Solid
Analysis Batch: 62245

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62199

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	25.3	24.18		mg/Kg		96	80 - 120	2	20

Lab Sample ID: 570-24627-A-10-C MS
Matrix: Solid
Analysis Batch: 62245

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62199

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	55.2	F1	25.1	79.00		mg/Kg		95	75 - 125

Lab Sample ID: 570-24627-A-10-D MSD
Matrix: Solid
Analysis Batch: 62245

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 62199

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	55.2	F1	25.3	94.55	F1	mg/Kg		156	75 - 125	18	20

QC Association Summary

Client: EEC Environmental
Job ID: 570-25057-2
Project/Site: City of Huntington Beach / S-3506.02T

Metals

Prep Batch: 62199

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25057-2	B1-3.0	Total/NA	Solid	3050B	
570-25057-4	B2-3.0	Total/NA	Solid	3050B	
570-25057-6	B3-3.0	Total/NA	Solid	3050B	
570-25057-8	B4-3.0	Total/NA	Solid	3050B	
570-25057-9	B5-0.5	Total/NA	Solid	3050B	
570-25057-10	B5-3.0	Total/NA	Solid	3050B	
570-25057-11	B6-0.5	Total/NA	Solid	3050B	
570-25057-12	B6-3.0	Total/NA	Solid	3050B	
MB 570-62199/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-62199/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-62199/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-24627-A-10-C MS	Matrix Spike	Total/NA	Solid	3050B	
570-24627-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 62245

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25057-2	B1-3.0	Total/NA	Solid	6010B	62199
570-25057-4	B2-3.0	Total/NA	Solid	6010B	62199
570-25057-6	B3-3.0	Total/NA	Solid	6010B	62199
570-25057-8	B4-3.0	Total/NA	Solid	6010B	62199
570-25057-9	B5-0.5	Total/NA	Solid	6010B	62199
570-25057-10	B5-3.0	Total/NA	Solid	6010B	62199
570-25057-11	B6-0.5	Total/NA	Solid	6010B	62199
570-25057-12	B6-3.0	Total/NA	Solid	6010B	62199
MB 570-62199/1-A	Method Blank	Total/NA	Solid	6010B	62199
LCS 570-62199/2-A	Lab Control Sample	Total/NA	Solid	6010B	62199
LCSD 570-62199/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	62199
570-24627-A-10-C MS	Matrix Spike	Total/NA	Solid	6010B	62199
570-24627-A-10-D MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	62199

Lab Chronicle

Client: EEC Environmental
Job ID: 570-25057-2
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B1-3.0
Lab Sample ID: 570-25057-2
Date Collected: 04/06/20 08:38
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	100 mL	62199	04/09/20 10:20	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62245	04/09/20 19:46	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B2-3.0
Lab Sample ID: 570-25057-4
Date Collected: 04/06/20 09:26
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.93 g	100 mL	62199	04/09/20 10:20	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62245	04/09/20 19:48	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B3-3.0
Lab Sample ID: 570-25057-6
Date Collected: 04/06/20 10:03
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	100 mL	62199	04/09/20 10:20	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62245	04/09/20 19:50	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B4-3.0
Lab Sample ID: 570-25057-8
Date Collected: 04/06/20 10:40
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.95 g	100 mL	62199	04/09/20 10:20	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62245	04/09/20 19:52	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B5-0.5
Lab Sample ID: 570-25057-9
Date Collected: 04/06/20 11:15
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	100 mL	62199	04/09/20 10:20	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62245	04/09/20 19:54	OYW3	ECL 1
	Instrument ID: ICP8									

Lab Chronicle

Client: EEC Environmental
Job ID: 570-25057-2
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B5-3.0
Lab Sample ID: 570-25057-10
Date Collected: 04/06/20 11:50
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.07 g	100 mL	62199	04/09/20 10:20	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62245	04/09/20 19:57	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B6-0.5
Lab Sample ID: 570-25057-11
Date Collected: 04/06/20 11:59
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.94 g	100 mL	62199	04/09/20 10:20	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62245	04/09/20 19:59	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B6-3.0
Lab Sample ID: 570-25057-12
Date Collected: 04/06/20 12:20
Matrix: Solid
Date Received: 04/06/20 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.07 g	100 mL	62199	04/09/20 10:20	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62245	04/09/20 20:00	OYW3	ECL 1
	Instrument ID: ICP8									

Laboratory References:
ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: EEC Environmental
Job ID: 570-25057-2
Project/Site: City of Huntington Beach / S-3506.02T

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25057-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: EEC Environmental
Job ID: 570-25057-2
Project/Site: City of Huntington Beach / S-3506.02T

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-25057-2	B1-3.0	Solid	04/06/20 08:38	04/06/20 14:05	
570-25057-4	B2-3.0	Solid	04/06/20 09:26	04/06/20 14:05	
570-25057-6	B3-3.0	Solid	04/06/20 10:03	04/06/20 14:05	
570-25057-8	B4-3.0	Solid	04/06/20 10:40	04/06/20 14:05	
570-25057-9	B5-0.5	Solid	04/06/20 11:15	04/06/20 14:05	
570-25057-10	B5-3.0	Solid	04/06/20 11:50	04/06/20 14:05	
570-25057-11	B6-0.5	Solid	04/06/20 11:59	04/06/20 14:05	
570-25057-12	B6-3.0	Solid	04/06/20 12:20	04/06/20 14:05	

25057

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

570-25057 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: April 6, 2020
PAGE: 1 OF 1

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
ADDRESS: One City Blvd. West #1800	P.O. NO.:
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Allison Burnap
TEL: (714) 667-2300 FAX: (714) 667-2310 E-MAIL: (SEE BELOW)	LAB CONTACT OR QUOTE NO.:
	SAMPLER(S): (SIGNATURE) AllisonBurnap
	LAB USE ONLY

TURNAROUND TIME:
☐ SAME DAY ■ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com
Also: aburnap@eecenvironmental.com

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	OCPs EPA 8081A	Lead EPA 6010B
1	B1-0.5	North of residence	4/6/20	0805	SO	1		X	X
2	B1-3.0	North of residence		0838	SO	1		X	
3	B2-0.5	East of residence		0900	SO	1		X	X
4	B2-3.0	East of residence		0926	SO	1		X	
5	B3-0.5	South of residence		0942	SO	1		X	X
6	B3-3.0	South of residence		1003	SO	1		X	
7	B4-0.5	West of residence		1025	SO	1		X	X
8	B4-3.0	West of residence		1040	SO	1		X	
9	B5-0.5	South central portion of residential lot		1115	SO	1		X	
10	B5-3.0	South central portion of residential lot		1150	SO	1		X	
11	B6-0.5	West portion of residential lot		1159	SO	1		X	
12	B6-3.0	West portion of residential lot		1220	SO	1		X	
13	QA1	Duplicate	4/6/20	—	SO	1		X	

Relinquished by: (Signature)	Received by: (Signature) EEI	Date: 04/06/2020	Time: 1405
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

3.6/2.7 SCC

06/01/10 Revision

1127 4/10/2020

Stephen Nowak

From: Laura Holder <lholder@eecenvironmental.com>
Sent: Thursday, April 09, 2020 2:40 PM
To: Stephen Nowak
Subject: RE: Preliminary Eurofins Calscience report files from 570-25057-1 City of Huntington Beach / S-3506.02T

EXTERNAL EMAIL*

Hi Steve,

We would like to run all of the samples you have there for lead on a rush TAT. It would be samples B1-3.0, B2-3.0, B3-3.0, B4-3.0, B5-0.5, B5-3.0, B6-0.5, and B6-3.0. We need them as fast as possible.

Thank you!!

Laura Holder
Project Manager
EEC Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Wednesday, April 08, 2020 2:33 PM
To: Laura Holder
Subject: Re: Preliminary Eurofins Calscience report files from 570-25057-1 City of Huntington Beach / S-3506.02T

Yes- we'll have them for another 60 days.

Stephen Nowak
Project Manager
Eurofins Calscience, LLC

Sent from my iPhone

On Apr 8, 2020, at 2:15 PM, Laura Holder <lholder@eecenvironmental.com> wrote:

EXTERNAL EMAIL*

Hi Steve,

Just a heads up that we may want to run some of the samples we collected Monday for lead analysis. We will know in the next day or two for sure. I assume you guys still have them and want you to know so you can still hold them for that. Can you confirm you still have them please?

Thanks!

Login Sample Receipt Checklist

Client: EEC Environmental

Job Number: 570-25057-2

Login Number: 25057
List Number: 1
Creator: Soriano, Precy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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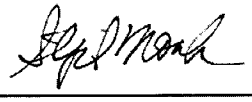
ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-25623-1
Laboratory Sample Delivery Group: 17631
Client Project/Site: City of Huntington Beach / S-3506.02T

For:
EEC Environmental
One City Blvd
Suite 1800
Orange, California 92868

Attn: Laura Holder



Authorized for release by:
4/14/2020 4:51:27 PM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

Table of Contents

Definitions/Glossary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Job ID: 570-25623-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-25623-1

Comments
No additional comments.

Receipt
The samples were received on 4/13/2020 11:15 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.0° C.

GC Semi VOA
Method 8081A: The continuing calibration verification (CCV) associated with 570-62847 recovered high and outside the control limits for DCB Decachlorobiphenyl (Surr) on one column. Results are confirmed on both columns and reported from the passing column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Client Sample ID: B11-0.5

Lab Sample ID: 570-25623-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	13	p	5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDE	1900		500	ug/Kg	100		8081A	Total/NA
4,4'-DDT	610		500	ug/Kg	100		8081A	Total/NA
alpha-Chlordane	1.5	p	1.0	ug/Kg	1		8081A	Total/NA
Toxaphene	1200		25	ug/Kg	1		8081A	Total/NA
Lead	10.2		0.495	mg/Kg	1		6010B	Total/NA

Client Sample ID: B11-3.0

Lab Sample ID: 570-25623-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.44		0.513	mg/Kg	1		6010B	Total/NA

Client Sample ID: B12-0.5

Lab Sample ID: 570-25623-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	5.7		5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDE	240		50	ug/Kg	10		8081A	Total/NA
4,4'-DDT	100		50	ug/Kg	10		8081A	Total/NA
Dieldrin	1.6		0.99	ug/Kg	1		8081A	Total/NA
Toxaphene	59		25	ug/Kg	1		8081A	Total/NA
Lead	19.6		0.510	mg/Kg	1		6010B	Total/NA

Client Sample ID: B12-3.0

Lab Sample ID: 570-25623-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.07		0.493	mg/Kg	1		6010B	Total/NA

Client Sample ID: B13-0.5

Lab Sample ID: 570-25623-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	16		5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDE	500		100	ug/Kg	20		8081A	Total/NA
4,4'-DDT	100		100	ug/Kg	20		8081A	Total/NA
Dieldrin	2.5		1.0	ug/Kg	1		8081A	Total/NA
Toxaphene	180		25	ug/Kg	1		8081A	Total/NA
Lead	18.0		0.488	mg/Kg	1		6010B	Total/NA

Client Sample ID: B13-3.0

Lab Sample ID: 570-25623-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	7.7		5.0	ug/Kg	1		8081A	Total/NA
Lead	4.02		0.495	mg/Kg	1		6010B	Total/NA

Client Sample ID: B14-0.5

Lab Sample ID: 570-25623-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	8.2		4.9	ug/Kg	1		8081A	Total/NA
4,4'-DDE	110		25	ug/Kg	5		8081A	Total/NA
4,4'-DDT	53		25	ug/Kg	5		8081A	Total/NA
Lead	4.64		0.498	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Client Sample ID: B14-3.0 — Lab Sample ID: 570-25623-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.57		0.493	mg/Kg	1		6010B	Total/NA

Client Sample ID: B15-0.5 — Lab Sample ID: 570-25623-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	11.3		0.490	mg/Kg	1		6010B	Total/NA

Client Sample ID: B15-3.0 — Lab Sample ID: 570-25623-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	10.9		0.505	mg/Kg	1		6010B	Total/NA

Client Sample ID: B16-0.5 — Lab Sample ID: 570-25623-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	22		5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDT	12		5.0	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	2.2	p	1.0	ug/Kg	1		8081A	Total/NA
Lead	9.86		0.503	mg/Kg	1		6010B	Total/NA

Client Sample ID: B16-3.0 — Lab Sample ID: 570-25623-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.05		0.521	mg/Kg	1		6010B	Total/NA

Client Sample ID: B17-0.5 — Lab Sample ID: 570-25623-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	6.0		5.0	ug/Kg	1		8081A	Total/NA
Lead	4.08		0.493	mg/Kg	1		6010B	Total/NA

Client Sample ID: B17-3.0 — Lab Sample ID: 570-25623-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.06		0.488	mg/Kg	1		6010B	Total/NA

Client Sample ID: B18-0.5 — Lab Sample ID: 570-25623-15

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	20		4.9	ug/Kg	1		8081A	Total/NA
4,4'-DDT	8.2		4.9	ug/Kg	1		8081A	Total/NA
alpha-Chlordane	2.1	p	0.99	ug/Kg	1		8081A	Total/NA
Lead	10.5		0.485	mg/Kg	1		6010B	Total/NA

Client Sample ID: B18-3.0 — Lab Sample ID: 570-25623-16

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
alpha-Chlordane	1.0	p	1.0	ug/Kg	1		8081A	Total/NA
Lead	11.0		0.505	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: B11-0.5
Date Collected: 04/13/20 09:52
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**13**	p	5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
4,4'-DDE	**1900**		500	ug/Kg		04/13/20 13:51	04/14/20 12:34	100
4,4'-DDT	**610**		500	ug/Kg		04/13/20 13:51	04/14/20 12:34	100
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
alpha-Chlordane	**1.5**	p	1.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Dieldrin	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:38	1
Toxaphene	**1200**		25	ug/Kg		04/13/20 13:51	04/14/20 07:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*64*		*23 - 124*	*04/13/20 13:51*	*04/14/20 07:38*	*1*
Tetrachloro-m-xylene	*42*		*23 - 124*	*04/13/20 13:51*	*04/14/20 12:34*	*100*
DCB Decachlorobiphenyl (Surr)	*63*		*20 - 137*	*04/13/20 13:51*	*04/14/20 07:38*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*20 - 137*	*04/13/20 13:51*	*04/14/20 12:34*	*100*

Client Sample ID: B11-3.0
Date Collected: 04/13/20 10:11
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
4,4'-DDE	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
4,4'-DDT	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
alpha-Chlordane	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Dieldrin	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B11-3.0
Date Collected: 04/13/20 10:11
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:45	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 09:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*23 - 124*	*04/13/20 13:51*	*04/14/20 09:45*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*20 - 137*	*04/13/20 13:51*	*04/14/20 09:45*	*1*

Client Sample ID: B12-0.5
Date Collected: 04/13/20 10:20
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-3
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**5.7**		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
4,4'-DDE	**240**		50	ug/Kg		04/13/20 13:51	04/14/20 12:48	10
4,4'-DDT	**100**		50	ug/Kg		04/13/20 13:51	04/14/20 12:48	10
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
alpha-Chlordane	ND		0.99	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Dieldrin	**1.6**		0.99	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 07:52	1
Toxaphene	**59**		25	ug/Kg		04/13/20 13:51	04/14/20 07:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*23 - 124*	*04/13/20 13:51*	*04/14/20 07:52*	*1*
Tetrachloro-m-xylene	*68*		*23 - 124*	*04/13/20 13:51*	*04/14/20 12:48*	*10*
DCB Decachlorobiphenyl (Surr)	*71*		*20 - 137*	*04/13/20 13:51*	*04/14/20 07:52*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*20 - 137*	*04/13/20 13:51*	*04/14/20 12:48*	*10*

Client Sample ID: B12-3.0
Date Collected: 04/13/20 10:33
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
4,4'-DDE	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
4,4'-DDT	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B12-3.0
Date Collected: 04/13/20 10:33
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
alpha-Chlordane	ND		0.99	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Dieldrin	ND		0.99	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:06	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 08:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*23 - 124*	*04/13/20 13:51*	*04/14/20 08:06*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*20 - 137*	*04/13/20 13:51*	*04/14/20 08:06*	*1*

Client Sample ID: B13-0.5
Date Collected: 04/13/20 09:32
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**16**		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
4,4'-DDE	**500**		100	ug/Kg		04/13/20 13:51	04/14/20 13:02	20
4,4'-DDT	**100**		100	ug/Kg		04/13/20 13:51	04/14/20 13:02	20
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
alpha-Chlordane	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Dieldrin	**2.5**		1.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:00	1
Toxaphene	**180**		25	ug/Kg		04/13/20 13:51	04/14/20 10:00	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*68*		*23 - 124*	*04/13/20 13:51*	*04/14/20 10:00*	*1*
Tetrachloro-m-xylene	*63*		*23 - 124*	*04/13/20 13:51*	*04/14/20 13:02*	*20*
DCB Decachlorobiphenyl (Surr)	*68*		*20 - 137*	*04/13/20 13:51*	*04/14/20 10:00*	*1*
DCB Decachlorobiphenyl (Surr)	*68*		*20 - 137*	*04/13/20 13:51*	*04/14/20 13:02*	*20*

Client Sample ID: B13-3.0
Date Collected: 04/13/20 09:55
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-6
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
4,4'-DDE	**7.7**		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
4,4'-DDT	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
alpha-Chlordane	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Dieldrin	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:20	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 08:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*57*		*23 - 124*	*04/13/20 13:51*	*04/14/20 08:20*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*20 - 137*	*04/13/20 13:51*	*04/14/20 08:20*	*1*

Client Sample ID: B14-0.5
Date Collected: 04/13/20 08:45
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**8.2**		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
4,4'-DDE	**110**		25	ug/Kg		04/13/20 13:51	04/14/20 13:16	5
4,4'-DDT	**53**		25	ug/Kg		04/13/20 13:51	04/14/20 13:16	5
Aldrin	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
alpha-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
alpha-Chlordane	ND		0.98	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
beta-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
delta-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
Dieldrin	ND		0.98	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
Endosulfan I	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
Endosulfan II	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
Endosulfan sulfate	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B14-0.5
Date Collected: 04/13/20 08:45
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
Endrin aldehyde	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
Endrin ketone	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
gamma-Chlordane	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
gamma-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
Heptachlor	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
Heptachlor epoxide	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
Methoxychlor	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:14	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 10:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*23 - 124*	*04/13/20 13:51*	*04/14/20 10:14*	*1*
Tetrachloro-m-xylene	*63*		*23 - 124*	*04/13/20 13:51*	*04/14/20 13:16*	*5*
DCB Decachlorobiphenyl (Surr)	*70*		*20 - 137*	*04/13/20 13:51*	*04/14/20 10:14*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*20 - 137*	*04/13/20 13:51*	*04/14/20 13:16*	*5*

Client Sample ID: B14-3.0
Date Collected: 04/13/20 09:10
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
4,4'-DDE	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
4,4'-DDT	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Aldrin	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
alpha-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
alpha-Chlordane	ND		0.98	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
beta-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
delta-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Dieldrin	ND		0.98	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Endosulfan I	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Endosulfan II	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Endosulfan sulfate	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Endrin	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Endrin aldehyde	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Endrin ketone	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
gamma-Chlordane	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
gamma-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Heptachlor	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Heptachlor epoxide	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Methoxychlor	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 08:35	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 08:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*46*		*23 - 124*	*04/13/20 13:51*	*04/14/20 08:35*	*1*
DCB Decachlorobiphenyl (Surr)	*46*		*20 - 137*	*04/13/20 13:51*	*04/14/20 08:35*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: B15-0.5
Date Collected: 04/13/20 07:42
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-9
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
4,4'-DDE	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
4,4'-DDT	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Aldrin	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
alpha-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
alpha-Chlordane	ND		0.98	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
beta-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
delta-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Dieldrin	ND		0.98	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Endosulfan I	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Endosulfan II	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Endosulfan sulfate	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Endrin	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Endrin aldehyde	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Endrin ketone	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
gamma-Chlordane	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
gamma-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Heptachlor	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Heptachlor epoxide	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Methoxychlor	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 10:28	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 10:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*23 - 124*	*04/13/20 13:51*	*04/14/20 10:28*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*20 - 137*	*04/13/20 13:51*	*04/14/20 10:28*	*1*

Client Sample ID: B15-3.0
Date Collected: 04/13/20 07:56
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
4,4'-DDE	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
4,4'-DDT	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
alpha-Chlordane	ND		0.99	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Dieldrin	ND		0.99	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B15-3.0
Date Collected: 04/13/20 07:56
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 08:49	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 08:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*23 - 124*	*04/13/20 13:51*	*04/14/20 08:49*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*20 - 137*	*04/13/20 13:51*	*04/14/20 08:49*	*1*

Client Sample ID: B16-0.5
Date Collected: 04/13/20 08:06
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-11
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
4,4'-DDE	**22**		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
4,4'-DDT	**12**		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
alpha-Chlordane	**2.2**	p	1.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Dieldrin	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 10:46	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 10:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*60*		*23 - 124*	*04/13/20 13:51*	*04/14/20 10:46*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*20 - 137*	*04/13/20 13:51*	*04/14/20 10:46*	*1*

Client Sample ID: B16-3.0
Date Collected: 04/13/20 08:22
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
4,4'-DDE	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
4,4'-DDT	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
alpha-Chlordane	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B16-3.0
Date Collected: 04/13/20 08:22
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Dieldrin	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:03	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 09:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*23 - 124*	*04/13/20 13:51*	*04/14/20 09:03*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*20 - 137*	*04/13/20 13:51*	*04/14/20 09:03*	*1*

Client Sample ID: B17-0.5
Date Collected: 04/13/20 08:36
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
4,4'-DDE	**6.0**		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
4,4'-DDT	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
alpha-Chlordane	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Dieldrin	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:17	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 09:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*53*		*23 - 124*	*04/13/20 13:51*	*04/14/20 09:17*	*1*
DCB Decachlorobiphenyl (Surr)	*51*		*20 - 137*	*04/13/20 13:51*	*04/14/20 09:17*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: B17-3.0
Date Collected: 04/13/20 08:55
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-14
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
4,4'-DDE	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
4,4'-DDT	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
alpha-Chlordane	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Dieldrin	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 09:31	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 09:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*57*		*23 - 124*	*04/13/20 13:51*	*04/14/20 09:31*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*20 - 137*	*04/13/20 13:51*	*04/14/20 09:31*	*1*

Client Sample ID: B18-0.5
Date Collected: 04/13/20 08:04
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-15
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
4,4'-DDE	**20**		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
4,4'-DDT	**8.2**		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Aldrin	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
alpha-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
alpha-Chlordane	**2.1**	**p**	0.99	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
beta-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
delta-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Dieldrin	ND		0.99	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Endosulfan I	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Endosulfan II	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Endosulfan sulfate	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Endrin	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Endrin aldehyde	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Endrin ketone	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
gamma-Chlordane	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
gamma-BHC	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Heptachlor	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B18-0.5
Date Collected: 04/13/20 08:04
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-15
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Methoxychlor	ND		4.9	ug/Kg		04/13/20 13:51	04/14/20 11:00	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 11:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*23 - 124*	*04/13/20 13:51*	*04/14/20 11:00*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*20 - 137*	*04/13/20 13:51*	*04/14/20 11:00*	*1*

Client Sample ID: B18-3.0
Date Collected: 04/13/20 08:14
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
4,4'-DDE	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
4,4'-DDT	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
alpha-Chlordane	**1.0**	**p**	1.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Dieldrin	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 12:16	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 12:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*23 - 124*	*04/13/20 13:51*	*04/14/20 12:16*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*20 - 137*	*04/13/20 13:51*	*04/14/20 12:16*	*1*

Method: 6010B - Metals (ICP)

Client Sample ID: B11-0.5
Date Collected: 04/13/20 09:52
Date Received: 04/13/20 11:15
Lab Sample ID: 570-25623-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10.2		0.495	mg/Kg		04/13/20 13:30	04/13/20 18:24	1

Client Sample ID: B11-3.0
Date Collected: 04/13/20 10:11
Date Received: 04/13/20 11:15
Lab Sample ID: 570-25623-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.44		0.513	mg/Kg		04/13/20 13:30	04/13/20 18:30	1

Client Sample ID: B12-0.5
Date Collected: 04/13/20 10:20
Date Received: 04/13/20 11:15
Lab Sample ID: 570-25623-3
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19.6		0.510	mg/Kg		04/13/20 13:30	04/13/20 18:32	1

Client Sample ID: B12-3.0
Date Collected: 04/13/20 10:33
Date Received: 04/13/20 11:15
Lab Sample ID: 570-25623-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.07		0.493	mg/Kg		04/13/20 13:30	04/13/20 18:34	1

Client Sample ID: B13-0.5
Date Collected: 04/13/20 09:32
Date Received: 04/13/20 11:15
Lab Sample ID: 570-25623-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18.0		0.488	mg/Kg		04/13/20 13:30	04/13/20 18:36	1

Client Sample ID: B13-3.0
Date Collected: 04/13/20 09:55
Date Received: 04/13/20 11:15
Lab Sample ID: 570-25623-6
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.02		0.495	mg/Kg		04/13/20 13:30	04/13/20 18:38	1

Client Sample ID: B14-0.5
Date Collected: 04/13/20 08:45
Date Received: 04/13/20 11:15
Lab Sample ID: 570-25623-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.64		0.498	mg/Kg		04/13/20 13:30	04/13/20 18:41	1

Client Sample ID: B14-3.0
Date Collected: 04/13/20 09:10
Date Received: 04/13/20 11:15
Lab Sample ID: 570-25623-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.57		0.493	mg/Kg		04/13/20 13:30	04/13/20 18:55	1

Client Sample ID: B15-0.5
Date Collected: 04/13/20 07:42
Date Received: 04/13/20 11:15
Lab Sample ID: 570-25623-9
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11.3		0.490	mg/Kg		04/13/20 13:30	04/13/20 18:57	1

Method: 6010B - Metals (ICP)

Client Sample ID: B15-3.0
Date Collected: 04/13/20 07:56
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10.9		0.505	mg/Kg		04/13/20 13:30	04/13/20 18:59	1

Client Sample ID: B16-0.5
Date Collected: 04/13/20 08:06
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-11
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.86		0.503	mg/Kg		04/13/20 13:30	04/13/20 19:01	1

Client Sample ID: B16-3.0
Date Collected: 04/13/20 08:22
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-12
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.05		0.521	mg/Kg		04/13/20 13:30	04/13/20 19:04	1

Client Sample ID: B17-0.5
Date Collected: 04/13/20 08:36
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-13
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.08		0.493	mg/Kg		04/13/20 13:30	04/13/20 19:06	1

Client Sample ID: B17-3.0
Date Collected: 04/13/20 08:55
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-14
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.06		0.488	mg/Kg		04/13/20 13:30	04/13/20 19:08	1

Client Sample ID: B18-0.5
Date Collected: 04/13/20 08:04
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-15
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	10.5		0.485	mg/Kg		04/13/20 13:30	04/13/20 19:10	1

Client Sample ID: B18-3.0
Date Collected: 04/13/20 08:14
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-16
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11.0		0.505	mg/Kg		04/13/20 13:30	04/13/20 19:12	1

Surrogate Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(23-124)	(20-137)
570-25623-1	B11-0.5	64	63
570-25623-1	B11-0.5	42	70
570-25623-2	B11-3.0	66	67
570-25623-3	B12-0.5	69	71
570-25623-3	B12-0.5	68	70
570-25623-4	B12-3.0	62	66
570-25623-5	B13-0.5	68	68
570-25623-5	B13-0.5	63	68
570-25623-6	B13-3.0	57	63
570-25623-7	B14-0.5	66	70
570-25623-7	B14-0.5	63	66
570-25623-8	B14-3.0	46	46
570-25623-9	B15-0.5	60	58
570-25623-10	B15-3.0	75	75
570-25623-11	B16-0.5	60	58
570-25623-12	B16-3.0	68	69
570-25623-13	B17-0.5	53	51
570-25623-13 MS	B17-0.5	60	60
570-25623-13 MSD	B17-0.5	69	70
570-25623-14	B17-3.0	57	60
570-25623-15	B18-0.5	63	66
570-25623-16	B18-3.0	79	77
LCS 570-62818/2-A	Lab Control Sample	86	86
LCSD 570-62818/3-A	Lab Control Sample Dup	86	89
MB 570-62818/1-A	Method Blank	86	87

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 570-62818/1-A
Matrix: Solid
Analysis Batch: 62847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62818

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
4,4'-DDE	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
4,4'-DDT	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Aldrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
alpha-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
alpha-Chlordane	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
beta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Chlordane	ND		25	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
delta-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Dieldrin	ND		1.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Endosulfan I	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Endosulfan II	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Endrin	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Endrin aldehyde	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Endrin ketone	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
gamma-Chlordane	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
gamma-BHC	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Heptachlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Methoxychlor	ND		5.0	ug/Kg		04/13/20 13:51	04/14/20 06:27	1
Toxaphene	ND		25	ug/Kg		04/13/20 13:51	04/14/20 06:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*23 - 124*	*04/13/20 13:51*	*04/14/20 06:27*	*1*
DCB Decachlorobiphenyl (Surr)	*87*		*20 - 137*	*04/13/20 13:51*	*04/14/20 06:27*	*1*

Lab Sample ID: LCS 570-62818/2-A
Matrix: Solid
Analysis Batch: 62847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	25.0	18.61		ug/Kg		74	50 - 149
4,4'-DDE	25.0	19.22		ug/Kg		77	48 - 144
4,4'-DDT	25.0	21.30		ug/Kg		85	37 - 149
Aldrin	25.0	19.57		ug/Kg		78	43 - 139
alpha-BHC	25.0	19.75		ug/Kg		79	51 - 138
alpha-Chlordane	25.0	19.10		ug/Kg		76	47 - 136
beta-BHC	25.0	19.97		ug/Kg		80	47 - 135
delta-BHC	25.0	16.85		ug/Kg		67	40 - 146
Dieldrin	25.0	20.07		ug/Kg		80	48 - 141
Endosulfan I	25.0	19.38		ug/Kg		78	43 - 139
Endosulfan II	25.0	20.08		ug/Kg		80	48 - 142
Endosulfan sulfate	25.0	20.51		ug/Kg		82	47 - 144
Endrin	25.0	19.74		ug/Kg		79	35 - 144
Endrin aldehyde	25.0	18.17		ug/Kg		73	35 - 138
gamma-Chlordane	25.0	22.12		ug/Kg		88	33 - 155
gamma-BHC	25.0	19.39		ug/Kg		78	51 - 137

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 570-62818/2-A
Matrix: Solid
Analysis Batch: 62847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62818

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	25.0	19.82		ug/Kg		79	47 - 137
Heptachlor epoxide	25.0	19.11		ug/Kg		76	49 - 135
Methoxychlor	25.0	22.15		ug/Kg		89	39 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*86*		*20 - 137*

Lab Sample ID: LCSD 570-62818/3-A
Matrix: Solid
Analysis Batch: 62847

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62818

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	25.0	18.86		ug/Kg		75	50 - 149	1	17
4,4'-DDE	25.0	19.32		ug/Kg		77	48 - 144	1	18
4,4'-DDT	25.0	21.55		ug/Kg		86	37 - 149	1	17
Aldrin	25.0	19.10		ug/Kg		76	43 - 139	2	15
alpha-BHC	25.0	19.32		ug/Kg		77	51 - 138	2	17
alpha-Chlordane	25.0	18.89		ug/Kg		76	47 - 136	1	16
beta-BHC	25.0	18.80		ug/Kg		75	47 - 135	6	17
delta-BHC	25.0	16.67		ug/Kg		67	40 - 146	1	20
Dieldrin	25.0	19.95		ug/Kg		80	48 - 141	1	16
Endosulfan I	25.0	19.15		ug/Kg		77	43 - 139	1	16
Endosulfan II	25.0	19.81		ug/Kg		79	48 - 142	1	16
Endosulfan sulfate	25.0	20.84		ug/Kg		83	47 - 144	2	16
Endrin	25.0	19.67		ug/Kg		79	35 - 144	0	18
Endrin aldehyde	25.0	18.32		ug/Kg		73	35 - 138	1	13
gamma-Chlordane	25.0	21.61		ug/Kg		86	33 - 155	2	59
gamma-BHC	25.0	18.89		ug/Kg		76	51 - 137	3	17
Heptachlor	25.0	19.42		ug/Kg		78	47 - 137	2	17
Heptachlor epoxide	25.0	18.81		ug/Kg		75	49 - 135	2	17
Methoxychlor	25.0	22.78		ug/Kg		91	39 - 142	3	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*86*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*89*		*20 - 137*

Lab Sample ID: 570-25623-13 MS
Matrix: Solid
Analysis Batch: 62847

Client Sample ID: B17-0.5
Prep Type: Total/NA
Prep Batch: 62818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		24.9	14.27		ug/Kg		55	12 - 180
4,4'-DDE	6.0		24.9	26.20		ug/Kg		81	8 - 184
4,4'-DDT	ND		24.9	26.40		ug/Kg		92	2 - 187
Aldrin	ND		24.9	12.22		ug/Kg		49	9 - 153
alpha-BHC	ND		24.9	12.86		ug/Kg		52	10 - 149
alpha-Chlordane	ND		24.9	15.08		ug/Kg		61	9 - 161

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 570-25623-13 MS
Matrix: Solid
Analysis Batch: 62847

Client Sample ID: B17-0.5
Prep Type: Total/NA
Prep Batch: 62818

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	ND		24.9	13.75		ug/Kg		55	9 - 156
delta-BHC	ND		24.9	11.17		ug/Kg		45	6 - 162
Dieldrin	ND		24.9	14.40		ug/Kg		56	11 - 164
Endosulfan I	ND		24.9	12.50		ug/Kg		50	4 - 156
Endosulfan II	ND		24.9	13.55		ug/Kg		54	12 - 161
Endosulfan sulfate	ND		24.9	13.89		ug/Kg		56	10 - 165
Endrin	ND		24.9	13.35		ug/Kg		54	6 - 166
Endrin aldehyde	ND		24.9	10.57		ug/Kg		43	1 - 156
gamma-Chlordane	ND		24.9	12.67	p	ug/Kg		51	7 - 177
gamma-BHC	ND		24.9	13.12		ug/Kg		53	9 - 154
Heptachlor	ND		24.9	12.50		ug/Kg		50	3 - 150
Heptachlor epoxide	ND		24.9	12.83		ug/Kg		52	7 - 169
Methoxychlor	ND		24.9	14.63		ug/Kg		59	8 - 163

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*60*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*60*		*20 - 137*

Lab Sample ID: 570-25623-13 MSD
Matrix: Solid
Analysis Batch: 62847

Client Sample ID: B17-0.5
Prep Type: Total/NA
Prep Batch: 62818

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		24.8	17.70		ug/Kg		69	12 - 180	21	79
4,4'-DDE	6.0		24.8	34.14		ug/Kg		114	8 - 184	26	76
4,4'-DDT	ND		24.8	32.50		ug/Kg		117	2 - 187	21	78
Aldrin	ND		24.8	14.67		ug/Kg		59	9 - 153	18	77
alpha-BHC	ND		24.8	15.35		ug/Kg		62	10 - 149	18	85
alpha-Chlordane	ND		24.8	18.69		ug/Kg		75	9 - 161	21	79
beta-BHC	ND		24.8	15.46		ug/Kg		62	9 - 156	12	78
delta-BHC	ND		24.8	13.99		ug/Kg		57	6 - 162	22	85
Dieldrin	ND		24.8	18.09		ug/Kg		71	11 - 164	23	77
Endosulfan I	ND		24.8	15.68		ug/Kg		63	4 - 156	23	77
Endosulfan II	ND		24.8	16.12		ug/Kg		65	12 - 161	17	77
Endosulfan sulfate	ND		24.8	16.20		ug/Kg		65	10 - 165	15	73
Endrin	ND		24.8	16.79		ug/Kg		68	6 - 166	23	82
Endrin aldehyde	ND		24.8	12.86		ug/Kg		52	1 - 156	19	83
gamma-Chlordane	ND		24.8	21.03		ug/Kg		85	7 - 177	50	84
gamma-BHC	ND		24.8	15.66		ug/Kg		63	9 - 154	18	79
Heptachlor	ND		24.8	15.17		ug/Kg		61	3 - 150	19	85
Heptachlor epoxide	ND		24.8	15.83		ug/Kg		64	7 - 169	21	79
Methoxychlor	ND		24.8	18.03		ug/Kg		73	8 - 163	21	78

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*70*		*20 - 137*

QC Sample Results

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-62809/1-A
Matrix: Solid
Analysis Batch: 62736

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62809

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.503	mg/Kg		04/13/20 13:30	04/13/20 18:05	1

Lab Sample ID: LCS 570-62809/2-A
Matrix: Solid
Analysis Batch: 62736

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62809

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	24.6	21.93		mg/Kg		89	80 - 120

Lab Sample ID: LCSD 570-62809/3-A
Matrix: Solid
Analysis Batch: 62736

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62809

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	24.9	22.13		mg/Kg		89	80 - 120	1	20

Lab Sample ID: 570-25623-1 MS
Matrix: Solid
Analysis Batch: 62736

Client Sample ID: B11-0.5
Prep Type: Total/NA
Prep Batch: 62809

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	10.2		25.6	37.62		mg/Kg		107	75 - 125

Lab Sample ID: 570-25623-1 MSD
Matrix: Solid
Analysis Batch: 62736

Client Sample ID: B11-0.5
Prep Type: Total/NA
Prep Batch: 62809

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	10.2		25.3	37.94		mg/Kg		110	75 - 125	1	20

QC Association Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

GC Semi VOA

Prep Batch: 62818

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25623-1	B11-0.5	Total/NA	Solid	3545	
570-25623-2	B11-3.0	Total/NA	Solid	3545	
570-25623-3	B12-0.5	Total/NA	Solid	3545	
570-25623-4	B12-3.0	Total/NA	Solid	3545	
570-25623-5	B13-0.5	Total/NA	Solid	3545	
570-25623-6	B13-3.0	Total/NA	Solid	3545	
570-25623-7	B14-0.5	Total/NA	Solid	3545	
570-25623-8	B14-3.0	Total/NA	Solid	3545	
570-25623-9	B15-0.5	Total/NA	Solid	3545	
570-25623-10	B15-3.0	Total/NA	Solid	3545	
570-25623-11	B16-0.5	Total/NA	Solid	3545	
570-25623-12	B16-3.0	Total/NA	Solid	3545	
570-25623-13	B17-0.5	Total/NA	Solid	3545	
570-25623-14	B17-3.0	Total/NA	Solid	3545	
570-25623-15	B18-0.5	Total/NA	Solid	3545	
570-25623-16	B18-3.0	Total/NA	Solid	3545	
MB 570-62818/1-A	Method Blank	Total/NA	Solid	3545	
LCS 570-62818/2-A	Lab Control Sample	Total/NA	Solid	3545	
LCSD 570-62818/3-A	Lab Control Sample Dup	Total/NA	Solid	3545	
570-25623-13 MS	B17-0.5	Total/NA	Solid	3545	
570-25623-13 MSD	B17-0.5	Total/NA	Solid	3545	

Analysis Batch: 62847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25623-1	B11-0.5	Total/NA	Solid	8081A	62818
570-25623-1	B11-0.5	Total/NA	Solid	8081A	62818
570-25623-2	B11-3.0	Total/NA	Solid	8081A	62818
570-25623-3	B12-0.5	Total/NA	Solid	8081A	62818
570-25623-3	B12-0.5	Total/NA	Solid	8081A	62818
570-25623-4	B12-3.0	Total/NA	Solid	8081A	62818
570-25623-5	B13-0.5	Total/NA	Solid	8081A	62818
570-25623-5	B13-0.5	Total/NA	Solid	8081A	62818
570-25623-6	B13-3.0	Total/NA	Solid	8081A	62818
570-25623-7	B14-0.5	Total/NA	Solid	8081A	62818
570-25623-7	B14-0.5	Total/NA	Solid	8081A	62818
570-25623-8	B14-3.0	Total/NA	Solid	8081A	62818
570-25623-9	B15-0.5	Total/NA	Solid	8081A	62818
570-25623-10	B15-3.0	Total/NA	Solid	8081A	62818
570-25623-11	B16-0.5	Total/NA	Solid	8081A	62818
570-25623-12	B16-3.0	Total/NA	Solid	8081A	62818
570-25623-13	B17-0.5	Total/NA	Solid	8081A	62818
570-25623-14	B17-3.0	Total/NA	Solid	8081A	62818
570-25623-15	B18-0.5	Total/NA	Solid	8081A	62818
570-25623-16	B18-3.0	Total/NA	Solid	8081A	62818
MB 570-62818/1-A	Method Blank	Total/NA	Solid	8081A	62818
LCS 570-62818/2-A	Lab Control Sample	Total/NA	Solid	8081A	62818
LCSD 570-62818/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	62818
570-25623-13 MS	B17-0.5	Total/NA	Solid	8081A	62818
570-25623-13 MSD	B17-0.5	Total/NA	Solid	8081A	62818

Metals

Analysis Batch: 62736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25623-1	B11-0.5	Total/NA	Solid	6010B	62809
570-25623-2	B11-3.0	Total/NA	Solid	6010B	62809
570-25623-3	B12-0.5	Total/NA	Solid	6010B	62809
570-25623-4	B12-3.0	Total/NA	Solid	6010B	62809
570-25623-5	B13-0.5	Total/NA	Solid	6010B	62809
570-25623-6	B13-3.0	Total/NA	Solid	6010B	62809
570-25623-7	B14-0.5	Total/NA	Solid	6010B	62809
570-25623-8	B14-3.0	Total/NA	Solid	6010B	62809
570-25623-9	B15-0.5	Total/NA	Solid	6010B	62809
570-25623-10	B15-3.0	Total/NA	Solid	6010B	62809
570-25623-11	B16-0.5	Total/NA	Solid	6010B	62809
570-25623-12	B16-3.0	Total/NA	Solid	6010B	62809
570-25623-13	B17-0.5	Total/NA	Solid	6010B	62809
570-25623-14	B17-3.0	Total/NA	Solid	6010B	62809
570-25623-15	B18-0.5	Total/NA	Solid	6010B	62809
570-25623-16	B18-3.0	Total/NA	Solid	6010B	62809
MB 570-62809/1-A	Method Blank	Total/NA	Solid	6010B	62809
LCS 570-62809/2-A	Lab Control Sample	Total/NA	Solid	6010B	62809
LCSD 570-62809/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	62809
570-25623-1 MS	B11-0.5	Total/NA	Solid	6010B	62809
570-25623-1 MSD	B11-0.5	Total/NA	Solid	6010B	62809

Prep Batch: 62809

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25623-1	B11-0.5	Total/NA	Solid	3050B	
570-25623-2	B11-3.0	Total/NA	Solid	3050B	
570-25623-3	B12-0.5	Total/NA	Solid	3050B	
570-25623-4	B12-3.0	Total/NA	Solid	3050B	
570-25623-5	B13-0.5	Total/NA	Solid	3050B	
570-25623-6	B13-3.0	Total/NA	Solid	3050B	
570-25623-7	B14-0.5	Total/NA	Solid	3050B	
570-25623-8	B14-3.0	Total/NA	Solid	3050B	
570-25623-9	B15-0.5	Total/NA	Solid	3050B	
570-25623-10	B15-3.0	Total/NA	Solid	3050B	
570-25623-11	B16-0.5	Total/NA	Solid	3050B	
570-25623-12	B16-3.0	Total/NA	Solid	3050B	
570-25623-13	B17-0.5	Total/NA	Solid	3050B	
570-25623-14	B17-3.0	Total/NA	Solid	3050B	
570-25623-15	B18-0.5	Total/NA	Solid	3050B	
570-25623-16	B18-3.0	Total/NA	Solid	3050B	
MB 570-62809/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-62809/2-A	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-62809/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-25623-1 MS	B11-0.5	Total/NA	Solid	3050B	
570-25623-1 MSD	B11-0.5	Total/NA	Solid	3050B	

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Client Sample ID: B11-0.5

Date Collected: 04/13/20 09:52
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.0 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 07:38	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.0 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		100			62847	04/14/20 12:34	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.02 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 18:24	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B11-3.0

Date Collected: 04/13/20 10:11
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.1 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 09:45	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			1.95 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 18:30	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B12-0.5

Date Collected: 04/13/20 10:20
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.2 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 07:52	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.2 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		10			62847	04/14/20 12:48	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			1.96 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 18:32	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B12-3.0

Date Collected: 04/13/20 10:33
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.2 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 08:06	UHHN	ECL 1
	Instrument ID: GC44									

Client Sample ID: B12-3.0

Date Collected: 04/13/20 10:33
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 18:34	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B13-0.5

Date Collected: 04/13/20 09:32
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-5

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.0 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 10:00	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.0 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		20			62847	04/14/20 13:02	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.05 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 18:36	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B13-3.0

Date Collected: 04/13/20 09:55
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.1 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 08:20	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.02 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 18:38	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B14-0.5

Date Collected: 04/13/20 08:45
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.4 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 10:14	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.4 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		5			62847	04/14/20 13:16	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.01 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 18:41	ULPF	ECL 1
	Instrument ID: ICP8									

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Client Sample ID: B14-3.0
Date Collected: 04/13/20 09:10
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.4 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 08:35	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.03 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 18:55	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B15-0.5
Date Collected: 04/13/20 07:42
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.4 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 10:28	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.04 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 18:57	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B15-3.0
Date Collected: 04/13/20 07:56
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.2 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 08:49	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			1.98 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 18:59	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B16-0.5
Date Collected: 04/13/20 08:06
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.0 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 10:46	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			1.99 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 19:01	ULPF	ECL 1
	Instrument ID: ICP8									

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Client Sample ID: B16-3.0
Date Collected: 04/13/20 08:22
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.0 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 09:03	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			1.92 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 19:04	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B17-0.5
Date Collected: 04/13/20 08:36
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.0 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 09:17	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.03 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 19:06	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B17-3.0
Date Collected: 04/13/20 08:55
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-14
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.1 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 09:31	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.05 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 19:08	ULPF	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B18-0.5
Date Collected: 04/13/20 08:04
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-15
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.3 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 11:00	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.06 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 19:10	ULPF	ECL 1
	Instrument ID: ICP8									

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Client Sample ID: B18-3.0

Date Collected: 04/13/20 08:14
Date Received: 04/13/20 11:15

Lab Sample ID: 570-25623-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.1 g	10 mL	62818	04/13/20 13:51	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 12:16	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			1.98 g	100 mL	62809	04/13/20 13:30	WL8G	ECL 1
Total/NA	Analysis	6010B		1			62736	04/13/20 19:12	ULPF	ECL 1
	Instrument ID: ICP8									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	ECL 1
6010B	Metals (ICP)	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1
3545	Pressurized Fluid Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25623-1
SDG: 17631

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-25623-1	B11-0.5	Solid	04/13/20 09:52	04/13/20 11:15	
570-25623-2	B11-3.0	Solid	04/13/20 10:11	04/13/20 11:15	
570-25623-3	B12-0.5	Solid	04/13/20 10:20	04/13/20 11:15	
570-25623-4	B12-3.0	Solid	04/13/20 10:33	04/13/20 11:15	
570-25623-5	B13-0.5	Solid	04/13/20 09:32	04/13/20 11:15	
570-25623-6	B13-3.0	Solid	04/13/20 09:55	04/13/20 11:15	
570-25623-7	B14-0.5	Solid	04/13/20 08:45	04/13/20 11:15	
570-25623-8	B14-3.0	Solid	04/13/20 09:10	04/13/20 11:15	
570-25623-9	B15-0.5	Solid	04/13/20 07:42	04/13/20 11:15	
570-25623-10	B15-3.0	Solid	04/13/20 07:56	04/13/20 11:15	
570-25623-11	B16-0.5	Solid	04/13/20 08:06	04/13/20 11:15	
570-25623-12	B16-3.0	Solid	04/13/20 08:22	04/13/20 11:15	
570-25623-13	B17-0.5	Solid	04/13/20 08:36	04/13/20 11:15	
570-25623-14	B17-3.0	Solid	04/13/20 08:55	04/13/20 11:15	
570-25623-15	B18-0.5	Solid	04/13/20 08:04	04/13/20 11:15	
570-25623-16	B18-3.0	Solid	04/13/20 08:14	04/13/20 11:15	

25623

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

570-25623 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 4/13/2020
PAGE: 1 OF 2

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T 17631
ADDRESS: One City Blvd. West #1800	P.O. NO.:
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Allison Burnap
TEL: (714) 667-2300 FAX: (714) 667-2310 E-MAIL: (529 Brown)	LAB CONTACT OR QUOTE NO.:
	SAMPLER(S): (SIGNATURE) Allison Burnap
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME:
☐ SAME DAY ■ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com & aburnap@eecenvironmental.com

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	OCPs EPA 8081A	Lead EPA 6010B
	B7-0.5	Northwest corner			SO	1		X	X
	B7-3.0	Northwest corner			SO	1		X	X
	B8-0.5	Southwest corner			SO	1		X	X
	B8-3.0	Southwest corner			SO	1		X	X
	B9-0.5	Northeast corner			SO	1		X	X
	B9-3.0	Northeast corner			SO	1		X	X
	B10-0.5	N Step out B6			SO	1		X	X
	B10-3.0	N Step out B6			SO	1		X	X
1	B11-0.5	E Step out B6	4/13/20	0952	SO	1		X	X
2	B11-3.0	E Step out B6	4/13/20	1011	SO	1		X	X
3	B12-0.5	S Step out B6	4/13/20	1020	SO	1		X	X
4	B12-3.0	S Step out B6	4/13/20	1033	SO	1		X	X

Relinquished by: (Signature)	Received by: (Signature) ECI	Date: 04/13/2020	Time: 10:50
Relinquished by: (Signature)	Received by: (Signature)	Date: 04/13/2020	Time: 1115
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

3.9/3.0 SCG

06/01/10 Revision

25623

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CHAIN OF CUSTODY RECORD

DATE: 4/13/2020
PAGE: 2 OF 2

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REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	OCPs EPA 8081A	Lead EPA 6010B
5	B13-0.5	W Step out B6	4/13/20	0932	SO	1		X	X
6	B13-3.0	W Step out B6	4/13/20	0955	SO	1		X	X
7	B14-0.5	N Step out ~~B4~~ B6	4/13/20	0845	SO	1		X	X
8	B14-3.0	N Step out ~~B4~~ B6	4/13/20	0910	SO	1		X	X
9	B15-0.5	NW Step out B4	4/13/20	0742	SO	1		X	X
10	B15-3.0	NW Step out B4	4/13/20	0756	SO	1		X	X
11	B16-0.5	W ~~SW~~ Step out B4	4/13/20	0806	SO	1		X	X
12	B16-3.0	W ~~SW~~ Step out B4	4/13/20	0822	SO	1		X	X
13	B17-0.5	SW ~~S~~ Step out B4	4/13/20	0836	SO	1		X	X
14	B17-3.0	SW ~~S~~ Step out B4	4/13/20	0855	SO	1		X	X
15	B18-0.5	SE Step out B4	4/13/20	0804	SO	1			
16	B18-3.0	SE Step out B4	4/13/20	0814	SO	1			

Relinquished by: (Signature)	Received by: (Signature)	Date: 04/13/2020	Time: 1050
Relinquished by: (Signature)	Received by: (Signature)	Date: 04/13/2020	Time: 1115
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

Login Sample Receipt Checklist

Client: EEC Environmental

Job Number: 570-25623-1
SDG Number: 17631

Login Number: 25623
List Number: 1
Creator: Soriano, Precy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-25647-1
Client Project/Site: City of Huntington Beach / S-3506.02T

For:
EEC Environmental
One City Blvd
Suite 1800
Orange, California 92868

Attn: Laura Holder

Authorized for release by:
4/15/2020 8:37:11 AM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

Table of Contents

Definitions/Glossary

Client: EEC Environmental
Job ID: 570-25647-1
Project/Site: City of Huntington Beach / S-3506.02T

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
F1	MS and/or MSD recovery exceeds control limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25647-1

Job ID: 570-25647-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-25647-1

Comments
No additional comments.

Receipt
The samples were received on 4/13/2020 2:07 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

GC Semi VOA
Method 8081A: The matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 570-62993 and analytical batch 570-62847 were out of control limit. Due to the additional level of 4,4'-DDE and 4,4'-DDT present in the spiked samples, the concentration of 4,4'-DDE and 4,4'-DDT in the MS/MSD was above the instrument calibration range.

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-62993 and analytical batch 570-62847 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 8081A: The continuing calibration verification (CCV) associated with batch 570-63013 recovered above the upper control limit for alpha-BHC and gamma-BHC. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25647-1

Client Sample ID: B7-0.5

Lab Sample ID: 570-25647-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	32	p	5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDE	3100		500	ug/Kg	100		8081A	Total/NA
4,4'-DDT	1300		500	ug/Kg	100		8081A	Total/NA
Toxaphene	1600	p	25	ug/Kg	1		8081A	Total/NA
Lead	30.0		0.495	mg/Kg	1		6010B	Total/NA

Client Sample ID: B7-3.0

Lab Sample ID: 570-25647-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	16		5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDT	6.6		5.0	ug/Kg	1		8081A	Total/NA
Lead	5.16		0.503	mg/Kg	1		6010B	Total/NA

Client Sample ID: B8-0.5

Lab Sample ID: 570-25647-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	270		50	ug/Kg	10		8081A	Total/NA
4,4'-DDT	63		50	ug/Kg	10		8081A	Total/NA
Dieldrin	1.5		1.0	ug/Kg	1		8081A	Total/NA
Toxaphene	110	p	25	ug/Kg	1		8081A	Total/NA
Lead	25.0		0.513	mg/Kg	1		6010B	Total/NA

Client Sample ID: B8-3.0

Lab Sample ID: 570-25647-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	13		5.0	ug/Kg	1		8081A	Total/NA
Lead	2.45		0.505	mg/Kg	1		6010B	Total/NA

Client Sample ID: B9-0.5

Lab Sample ID: 570-25647-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	17		5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDT	9.6		5.0	ug/Kg	1		8081A	Total/NA
Lead	9.59		0.493	mg/Kg	1		6010B	Total/NA

Client Sample ID: B9-3.0

Lab Sample ID: 570-25647-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	3.33		0.495	mg/Kg	1		6010B	Total/NA

Client Sample ID: B10-0.5

Lab Sample ID: 570-25647-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	770		500	ug/Kg	100		8081A	Total/NA
4,4'-DDT	410		100	ug/Kg	20		8081A	Total/NA
alpha-Chlordane	1.8	p	1.0	ug/Kg	1		8081A	Total/NA
Toxaphene	500		25	ug/Kg	1		8081A	Total/NA
Lead	47.3		0.488	mg/Kg	1		6010B	Total/NA

Client Sample ID: B10-3.0

Lab Sample ID: 570-25647-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.54		0.483	mg/Kg	1		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: B7-0.5
Lab Sample ID: 570-25647-1
Date Collected: 04/13/20 12:25
Matrix: Solid
Date Received: 04/13/20 14:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**32**	p	5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
4,4'-DDE	**3100**		500	ug/Kg		04/14/20 09:27	04/14/20 16:47	100
4,4'-DDT	**1300**		500	ug/Kg		04/14/20 09:27	04/14/20 16:47	100
Aldrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
alpha-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
alpha-Chlordane	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
beta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Chlordane	ND		25	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
delta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Dieldrin	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Endosulfan I	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Endosulfan II	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Endrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Endrin aldehyde	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Endrin ketone	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
gamma-Chlordane	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
gamma-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Heptachlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Methoxychlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:37	1
Toxaphene	**1600**	p	25	ug/Kg		04/14/20 09:27	04/14/20 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*23 - 124*	*04/14/20 09:27*	*04/14/20 16:37*	*1*
Tetrachloro-m-xylene	*65*		*23 - 124*	*04/14/20 09:27*	*04/14/20 16:47*	*100*
DCB Decachlorobiphenyl (Surr)	*75*	*p*	*20 - 137*	*04/14/20 09:27*	*04/14/20 16:37*	*1*
DCB Decachlorobiphenyl (Surr)	*66*		*20 - 137*	*04/14/20 09:27*	*04/14/20 16:47*	*100*

Client Sample ID: B7-3.0
Lab Sample ID: 570-25647-2
Date Collected: 04/13/20 12:43
Matrix: Solid
Date Received: 04/13/20 14:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
4,4'-DDE	**16**		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
4,4'-DDT	**6.6**		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Aldrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
alpha-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
alpha-Chlordane	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
beta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Chlordane	ND		25	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
delta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Dieldrin	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Endosulfan I	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Endosulfan II	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Endrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Endrin aldehyde	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Endrin ketone	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
gamma-Chlordane	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B7-3.0
Lab Sample ID: 570-25647-2
Date Collected: 04/13/20 12:43
Matrix: Solid
Date Received: 04/13/20 14:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Heptachlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Methoxychlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:22	1
Toxaphene	ND		25	ug/Kg		04/14/20 09:27	04/14/20 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*55*		*23 - 124*	*04/14/20 09:27*	*04/14/20 16:22*	*1*
DCB Decachlorobiphenyl (Surr)	*54*		*20 - 137*	*04/14/20 09:27*	*04/14/20 16:22*	*1*

Client Sample ID: B8-0.5
Lab Sample ID: 570-25647-3
Date Collected: 04/13/20 11:58
Matrix: Solid
Date Received: 04/13/20 14:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
4,4'-DDE	**270**		50	ug/Kg		04/14/20 09:27	04/14/20 15:59	10
4,4'-DDT	**63**		50	ug/Kg		04/14/20 09:27	04/14/20 15:59	10
Aldrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
alpha-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
alpha-Chlordane	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
beta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Chlordane	ND		25	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
delta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Dieldrin	**1.5**		1.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Endosulfan I	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Endosulfan II	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Endrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Endrin aldehyde	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Endrin ketone	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
gamma-Chlordane	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
gamma-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Heptachlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Methoxychlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:11	1
Toxaphene	**110**	**p**	25	ug/Kg		04/14/20 09:27	04/14/20 15:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*45*		*23 - 124*	*04/14/20 09:27*	*04/14/20 15:11*	*1*
Tetrachloro-m-xylene	*56*		*23 - 124*	*04/14/20 09:27*	*04/14/20 15:59*	*10*
DCB Decachlorobiphenyl (Surr)	*46*		*20 - 137*	*04/14/20 09:27*	*04/14/20 15:11*	*1*
DCB Decachlorobiphenyl (Surr)	*55*		*20 - 137*	*04/14/20 09:27*	*04/14/20 15:59*	*10*

Client Sample ID: B8-3.0
Lab Sample ID: 570-25647-4
Date Collected: 04/13/20 12:13
Matrix: Solid
Date Received: 04/13/20 14:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
4,4'-DDE	**13**		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
4,4'-DDT	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B8-3.0
Lab Sample ID: 570-25647-4
Date Collected: 04/13/20 12:13
Matrix: Solid
Date Received: 04/13/20 14:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Aldrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
alpha-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
alpha-Chlordane	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
beta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Chlordane	ND		25	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
delta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Dieldrin	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Endosulfan I	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Endosulfan II	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Endrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Endrin aldehyde	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Endrin ketone	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
gamma-Chlordane	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
gamma-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Heptachlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Methoxychlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:26	1
Toxaphene	ND		25	ug/Kg		04/14/20 09:27	04/14/20 15:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*44*		*23 - 124*	*04/14/20 09:27*	*04/14/20 15:26*	*1*
DCB Decachlorobiphenyl (Surr)	*41*		*20 - 137*	*04/14/20 09:27*	*04/14/20 15:26*	*1*

Client Sample ID: B9-0.5
Lab Sample ID: 570-25647-5
Date Collected: 04/13/20 11:33
Matrix: Solid
Date Received: 04/13/20 14:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
4,4'-DDE	**17**		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
4,4'-DDT	**9.6**		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Aldrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
alpha-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
alpha-Chlordane	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
beta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Chlordane	ND		25	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
delta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Dieldrin	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Endosulfan I	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Endosulfan II	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Endrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Endrin aldehyde	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Endrin ketone	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
gamma-Chlordane	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
gamma-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Heptachlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Methoxychlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:40	1
Toxaphene	ND		25	ug/Kg		04/14/20 09:27	04/14/20 15:40	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*51*		*23 - 124*	*04/14/20 09:27*	*04/14/20 15:40*	*1*
DCB Decachlorobiphenyl (Surr)	*48*		*20 - 137*	*04/14/20 09:27*	*04/14/20 15:40*	*1*

Client Sample ID: B9-3.0
Date Collected: 04/13/20 11:43
Date Received: 04/13/20 14:07

Lab Sample ID: 570-25647-6
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
4,4'-DDE	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
4,4'-DDT	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Aldrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
alpha-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
alpha-Chlordane	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
beta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Chlordane	ND		25	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
delta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Dieldrin	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Endosulfan I	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Endosulfan II	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Endrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Endrin aldehyde	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Endrin ketone	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
gamma-Chlordane	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
gamma-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Heptachlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Methoxychlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 15:54	1
Toxaphene	ND		25	ug/Kg		04/14/20 09:27	04/14/20 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene	*60*		*23 - 124*	*04/14/20 09:27*	*04/14/20 15:54*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*20 - 137*	*04/14/20 09:27*	*04/14/20 15:54*	*1*

Client Sample ID: B10-0.5
Date Collected: 04/13/20 13:00
Date Received: 04/13/20 14:07

Lab Sample ID: 570-25647-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
4,4'-DDE	**770**		500	ug/Kg		04/14/20 09:27	04/14/20 16:27	100
4,4'-DDT	**410**		100	ug/Kg		04/14/20 09:27	04/14/20 15:45	20
Aldrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
alpha-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
alpha-Chlordane	**1.8**	**p**	1.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
beta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
Chlordane	ND		25	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
delta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
Dieldrin	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
Endosulfan I	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
Endosulfan II	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
Endrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
Endrin aldehyde	ND	F1	5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B10-0.5
Lab Sample ID: 570-25647-7
Date Collected: 04/13/20 13:00
Matrix: Solid
Date Received: 04/13/20 14:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
gamma-Chlordane	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
gamma-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
Heptachlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
Methoxychlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 14:55	1
Toxaphene	**500**		25	ug/Kg		04/14/20 09:27	04/14/20 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*23 - 124*	*04/14/20 09:27*	*04/14/20 14:55*	*1*
Tetrachloro-m-xylene	*58*		*23 - 124*	*04/14/20 09:27*	*04/14/20 15:45*	*20*
Tetrachloro-m-xylene	*51*		*23 - 124*	*04/14/20 09:27*	*04/14/20 16:27*	*100*
DCB Decachlorobiphenyl (Surr)	*57*		*20 - 137*	*04/14/20 09:27*	*04/14/20 14:55*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*20 - 137*	*04/14/20 09:27*	*04/14/20 15:45*	*20*
DCB Decachlorobiphenyl (Surr)	*57*		*20 - 137*	*04/14/20 09:27*	*04/14/20 16:27*	*100*

Client Sample ID: B10-3.0
Lab Sample ID: 570-25647-8
Date Collected: 04/13/20 13:20
Matrix: Solid
Date Received: 04/13/20 14:07

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
4,4'-DDE	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
4,4'-DDT	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Aldrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
alpha-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
alpha-Chlordane	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
beta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Chlordane	ND		25	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
delta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Dieldrin	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Endosulfan I	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Endosulfan II	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Endrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Endrin aldehyde	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Endrin ketone	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
gamma-Chlordane	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
gamma-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Heptachlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Methoxychlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 16:08	1
Toxaphene	ND		25	ug/Kg		04/14/20 09:27	04/14/20 16:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*56*		*23 - 124*	*04/14/20 09:27*	*04/14/20 16:08*	*1*
DCB Decachlorobiphenyl (Surr)	*54*		*20 - 137*	*04/14/20 09:27*	*04/14/20 16:08*	*1*

Method: 6010B - Metals (ICP)

Client Sample ID: B7-0.5
Date Collected: 04/13/20 12:25
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-1
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	30.0		0.495	mg/Kg		04/14/20 08:05	04/14/20 12:20	1

Client Sample ID: B7-3.0
Date Collected: 04/13/20 12:43
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.16		0.503	mg/Kg		04/14/20 08:05	04/14/20 12:22	1

Client Sample ID: B8-0.5
Date Collected: 04/13/20 11:58
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-3
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	25.0		0.513	mg/Kg		04/14/20 08:05	04/14/20 12:24	1

Client Sample ID: B8-3.0
Date Collected: 04/13/20 12:13
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.45		0.505	mg/Kg		04/14/20 08:05	04/14/20 12:25	1

Client Sample ID: B9-0.5
Date Collected: 04/13/20 11:33
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-5
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.59		0.493	mg/Kg		04/14/20 08:05	04/14/20 12:28	1

Client Sample ID: B9-3.0
Date Collected: 04/13/20 11:43
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-6
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	3.33		0.495	mg/Kg		04/14/20 08:05	04/14/20 12:30	1

Client Sample ID: B10-0.5
Date Collected: 04/13/20 13:00
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-7
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	47.3		0.488	mg/Kg		04/14/20 08:05	04/14/20 12:32	1

Client Sample ID: B10-3.0
Date Collected: 04/13/20 13:20
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.54		0.483	mg/Kg		04/14/20 08:05	04/14/20 12:34	1

Surrogate Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25647-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(23-124)	(20-137)
570-25647-1	B7-0.5	62	75 p
570-25647-1	B7-0.5	65	66
570-25647-2	B7-3.0	55	54
570-25647-3	B8-0.5	45	46
570-25647-3	B8-0.5	56	55
570-25647-4	B8-3.0	44	41
570-25647-5	B9-0.5	51	48
570-25647-6	B9-3.0	60	60
570-25647-7	B10-0.5	78	57
570-25647-7	B10-0.5	51	57
570-25647-7	B10-0.5	58	64
570-25647-7 MS	B10-0.5	62	63
570-25647-7 MSD	B10-0.5	64	63
570-25647-8	B10-3.0	56	54
LCS 570-62993/2-A	Lab Control Sample	83	83
LCSD 570-62993/3-A	Lab Control Sample Dup	87	90
MB 570-62993/1-A	Method Blank	86	88

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 570-62993/1-A
Matrix: Solid
Analysis Batch: 62847

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62993

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
4,4'-DDE	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
4,4'-DDT	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Aldrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
alpha-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
alpha-Chlordane	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
beta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Chlordane	ND		25	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
delta-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Dieldrin	ND		1.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Endosulfan I	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Endosulfan II	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Endrin	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Endrin aldehyde	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Endrin ketone	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
gamma-Chlordane	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
gamma-BHC	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Heptachlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Methoxychlor	ND		5.0	ug/Kg		04/14/20 09:27	04/14/20 13:30	1
Toxaphene	ND		25	ug/Kg		04/14/20 09:27	04/14/20 13:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*23 - 124*	*04/14/20 09:27*	*04/14/20 13:30*	*1*
DCB Decachlorobiphenyl (Surr)	*88*		*20 - 137*	*04/14/20 09:27*	*04/14/20 13:30*	*1*

Lab Sample ID: LCS 570-62993/2-A
Matrix: Solid
Analysis Batch: 62847

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	25.0	18.16		ug/Kg		73	50 - 149
4,4'-DDE	25.0	18.65		ug/Kg		75	48 - 144
4,4'-DDT	25.0	20.45		ug/Kg		82	37 - 149
Aldrin	25.0	18.78		ug/Kg		75	43 - 139
alpha-BHC	25.0	19.00		ug/Kg		76	51 - 138
alpha-Chlordane	25.0	18.38		ug/Kg		74	47 - 136
beta-BHC	25.0	18.51		ug/Kg		74	47 - 135
delta-BHC	25.0	16.54		ug/Kg		66	40 - 146
Dieldrin	25.0	19.41		ug/Kg		78	48 - 141
Endosulfan I	25.0	18.78		ug/Kg		75	43 - 139
Endosulfan II	25.0	19.44		ug/Kg		78	48 - 142
Endosulfan sulfate	25.0	19.90		ug/Kg		80	47 - 144
Endrin	25.0	14.05		ug/Kg		56	35 - 144
Endrin aldehyde	25.0	20.72		ug/Kg		83	35 - 138
gamma-Chlordane	25.0	21.36		ug/Kg		85	33 - 155
gamma-BHC	25.0	18.57		ug/Kg		74	51 - 137

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 570-62993/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 62847
Prep Batch: 62993

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	25.0	19.40		ug/Kg		78	47 - 137
Heptachlor epoxide	25.0	18.52		ug/Kg		74	49 - 135
Methoxychlor	25.0	21.75		ug/Kg		87	39 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*83*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*83*		*20 - 137*

Lab Sample ID: LCSD 570-62993/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 62847
Prep Batch: 62993

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	25.0	18.96		ug/Kg		76	50 - 149	4	17
4,4'-DDE	25.0	19.32		ug/Kg		77	48 - 144	4	18
4,4'-DDT	25.0	21.33		ug/Kg		85	37 - 149	4	17
Aldrin	25.0	19.04		ug/Kg		76	43 - 139	1	15
alpha-BHC	25.0	19.22		ug/Kg		77	51 - 138	1	17
alpha-Chlordane	25.0	18.80		ug/Kg		75	47 - 136	2	16
beta-BHC	25.0	18.64		ug/Kg		75	47 - 135	1	17
delta-BHC	25.0	16.87		ug/Kg		67	40 - 146	2	20
Dieldrin	25.0	19.97		ug/Kg		80	48 - 141	3	16
Endosulfan I	25.0	19.25		ug/Kg		77	43 - 139	2	16
Endosulfan II	25.0	20.17		ug/Kg		81	48 - 142	4	16
Endosulfan sulfate	25.0	20.79		ug/Kg		83	47 - 144	4	16
Endrin	25.0	14.50		ug/Kg		58	35 - 144	3	18
Endrin aldehyde	25.0	21.30		ug/Kg		85	35 - 138	3	13
gamma-Chlordane	25.0	21.43		ug/Kg		86	33 - 155	0	59
gamma-BHC	25.0	18.82		ug/Kg		75	51 - 137	1	17
Heptachlor	25.0	19.62		ug/Kg		78	47 - 137	1	17
Heptachlor epoxide	25.0	18.87		ug/Kg		75	49 - 135	2	17
Methoxychlor	25.0	22.97		ug/Kg		92	39 - 142	5	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*87*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*90*		*20 - 137*

Lab Sample ID: 570-25647-7 MS
Client Sample ID: B10-0.5
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 62847
Prep Batch: 62993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		25.0	26.21		ug/Kg		92	12 - 180
4,4'-DDE	1000	E	25.0	1053	E 4	ug/Kg		163	8 - 184
4,4'-DDT	510	E	25.0	567.4	E 4	ug/Kg		238	2 - 187
Aldrin	ND		25.0	12.90		ug/Kg		52	9 - 153
alpha-BHC	ND		25.0	12.41		ug/Kg		50	10 - 149
alpha-Chlordane	1.8	p	25.0	16.25		ug/Kg		58	9 - 161

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 570-25647-7 MS
Matrix: Solid
Analysis Batch: 62847

Client Sample ID: B10-0.5
Prep Type: Total/NA
Prep Batch: 62993

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	ND		25.0	12.89		ug/Kg		52	9 - 156
delta-BHC	ND		25.0	11.30		ug/Kg		45	6 - 162
Dieldrin	ND		25.0	20.02		ug/Kg		80	11 - 164
Endosulfan I	ND		25.0	12.37	p	ug/Kg		49	4 - 156
Endosulfan II	ND		25.0	27.16		ug/Kg		109	12 - 161
Endosulfan sulfate	ND		25.0	26.72		ug/Kg		107	10 - 165
Endrin	ND		25.0	11.47	p	ug/Kg		46	6 - 166
Endrin aldehyde	ND	F1	25.0	40.75	E F1	ug/Kg		163	1 - 156
gamma-Chlordane	ND		25.0	13.62	p	ug/Kg		54	7 - 177
gamma-BHC	ND		25.0	12.39		ug/Kg		50	9 - 154
Heptachlor	ND		25.0	13.12		ug/Kg		52	3 - 150
Heptachlor epoxide	ND		25.0	20.15		ug/Kg		81	7 - 169
Methoxychlor	ND		25.0	38.96		ug/Kg		156	8 - 163

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*62*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*63*		*20 - 137*

Lab Sample ID: 570-25647-7 MSD
Matrix: Solid
Analysis Batch: 62847

Client Sample ID: B10-0.5
Prep Type: Total/NA
Prep Batch: 62993

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		25.0	36.06		ug/Kg		132	12 - 180	32	79
4,4'-DDE	1000	E	25.0	1081	E 4	ug/Kg		273	8 - 184	3	76
4,4'-DDT	510	E	25.0	547.3	E 4	ug/Kg		158	2 - 187	4	78
Aldrin	ND		25.0	13.22		ug/Kg		53	9 - 153	2	77
alpha-BHC	ND		25.0	12.70		ug/Kg		51	10 - 149	2	85
alpha-Chlordane	1.8	p	25.0	15.30		ug/Kg		54	9 - 161	6	79
beta-BHC	ND		25.0	13.10		ug/Kg		52	9 - 156	2	78
delta-BHC	ND		25.0	11.24		ug/Kg		45	6 - 162	1	85
Dieldrin	ND		25.0	23.46		ug/Kg		94	11 - 164	16	77
Endosulfan I	ND		25.0	15.90		ug/Kg		64	4 - 156	25	77
Endosulfan II	ND		25.0	29.88		ug/Kg		120	12 - 161	10	77
Endosulfan sulfate	ND		25.0	25.35		ug/Kg		101	10 - 165	5	73
Endrin	ND		25.0	19.55		ug/Kg		78	6 - 166	52	82
Endrin aldehyde	ND	F1	25.0	43.00	E F1	ug/Kg		172	1 - 156	5	83
gamma-Chlordane	ND		25.0	13.43	p	ug/Kg		54	7 - 177	1	84
gamma-BHC	ND		25.0	12.56		ug/Kg		50	9 - 154	1	79
Heptachlor	ND		25.0	13.44		ug/Kg		54	3 - 150	2	85
Heptachlor epoxide	ND		25.0	20.46		ug/Kg		82	7 - 169	2	79
Methoxychlor	ND		25.0	20.74	p	ug/Kg		83	8 - 163	61	78

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*64*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*63*		*20 - 137*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 570-62941/1-A
Matrix: Solid
Analysis Batch: 63057

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 62941

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.495	mg/Kg		04/14/20 08:05	04/14/20 11:31	1

Lab Sample ID: LCS 570-62941/2-A
Matrix: Solid
Analysis Batch: 63057

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 62941

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	25.1	25.36		mg/Kg		101	80 - 120

Lab Sample ID: LCSD 570-62941/3-A
Matrix: Solid
Analysis Batch: 63057

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 62941

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	24.6	25.10		mg/Kg		102	80 - 120	1	20

Lab Sample ID: 570-25404-A-1-N MS
Matrix: Solid
Analysis Batch: 63057

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 62941

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	13.4		24.2	32.20		mg/Kg		78	75 - 125

Lab Sample ID: 570-25404-A-1-O MSD
Matrix: Solid
Analysis Batch: 63057

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 62941

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	13.4		25.3	34.12		mg/Kg		82	75 - 125	6	20

GC Semi VOA

Analysis Batch: 62847

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25647-1	B7-0.5	Total/NA	Solid	8081A	62993
570-25647-2	B7-3.0	Total/NA	Solid	8081A	62993
570-25647-3	B8-0.5	Total/NA	Solid	8081A	62993
570-25647-4	B8-3.0	Total/NA	Solid	8081A	62993
570-25647-5	B9-0.5	Total/NA	Solid	8081A	62993
570-25647-6	B9-3.0	Total/NA	Solid	8081A	62993
570-25647-7	B10-0.5	Total/NA	Solid	8081A	62993
570-25647-8	B10-3.0	Total/NA	Solid	8081A	62993
MB 570-62993/1-A	Method Blank	Total/NA	Solid	8081A	62993
LCS 570-62993/2-A	Lab Control Sample	Total/NA	Solid	8081A	62993
LCSD 570-62993/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	62993
570-25647-7 MS	B10-0.5	Total/NA	Solid	8081A	62993
570-25647-7 MSD	B10-0.5	Total/NA	Solid	8081A	62993

Prep Batch: 62993

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25647-1	B7-0.5	Total/NA	Solid	3545	
570-25647-2	B7-3.0	Total/NA	Solid	3545	
570-25647-3	B8-0.5	Total/NA	Solid	3545	
570-25647-4	B8-3.0	Total/NA	Solid	3545	
570-25647-5	B9-0.5	Total/NA	Solid	3545	
570-25647-6	B9-3.0	Total/NA	Solid	3545	
570-25647-7	B10-0.5	Total/NA	Solid	3545	
570-25647-8	B10-3.0	Total/NA	Solid	3545	
MB 570-62993/1-A	Method Blank	Total/NA	Solid	3545	
LCS 570-62993/2-A	Lab Control Sample	Total/NA	Solid	3545	
LCSD 570-62993/3-A	Lab Control Sample Dup	Total/NA	Solid	3545	
570-25647-7 MS	B10-0.5	Total/NA	Solid	3545	
570-25647-7 MSD	B10-0.5	Total/NA	Solid	3545	

Analysis Batch: 63013

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25647-1	B7-0.5	Total/NA	Solid	8081A	62993
570-25647-3	B8-0.5	Total/NA	Solid	8081A	62993
570-25647-7	B10-0.5	Total/NA	Solid	8081A	62993
570-25647-7	B10-0.5	Total/NA	Solid	8081A	62993

Metals

Prep Batch: 62941

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25647-1	B7-0.5	Total/NA	Solid	3050B	
570-25647-2	B7-3.0	Total/NA	Solid	3050B	
570-25647-3	B8-0.5	Total/NA	Solid	3050B	
570-25647-4	B8-3.0	Total/NA	Solid	3050B	
570-25647-5	B9-0.5	Total/NA	Solid	3050B	
570-25647-6	B9-3.0	Total/NA	Solid	3050B	
570-25647-7	B10-0.5	Total/NA	Solid	3050B	
570-25647-8	B10-3.0	Total/NA	Solid	3050B	
MB 570-62941/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 570-62941/2-A	Lab Control Sample	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 62941 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCSD 570-62941/3-A	Lab Control Sample Dup	Total/NA	Solid	3050B	
570-25404-A-1-N MS	Matrix Spike	Total/NA	Solid	3050B	
570-25404-A-1-O MSD	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 63057

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25647-1	B7-0.5	Total/NA	Solid	6010B	62941
570-25647-2	B7-3.0	Total/NA	Solid	6010B	62941
570-25647-3	B8-0.5	Total/NA	Solid	6010B	62941
570-25647-4	B8-3.0	Total/NA	Solid	6010B	62941
570-25647-5	B9-0.5	Total/NA	Solid	6010B	62941
570-25647-6	B9-3.0	Total/NA	Solid	6010B	62941
570-25647-7	B10-0.5	Total/NA	Solid	6010B	62941
570-25647-8	B10-3.0	Total/NA	Solid	6010B	62941
MB 570-62941/1-A	Method Blank	Total/NA	Solid	6010B	62941
LCS 570-62941/2-A	Lab Control Sample	Total/NA	Solid	6010B	62941
LCSD 570-62941/3-A	Lab Control Sample Dup	Total/NA	Solid	6010B	62941
570-25404-A-1-N MS	Matrix Spike	Total/NA	Solid	6010B	62941
570-25404-A-1-O MSD	Matrix Spike Duplicate	Total/NA	Solid	6010B	62941

Lab Chronicle

Client: EEC Environmental
Job ID: 570-25647-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B7-0.5
Lab Sample ID: 570-25647-1
Date Collected: 04/13/20 12:25
Matrix: Solid
Date Received: 04/13/20 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			19.95 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 16:37	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			19.95 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		100			63013	04/14/20 16:47	UHHN	ECL 1
	Instrument ID: GC51									
Total/NA	Prep	3050B			2.02 g	100 mL	62941	04/14/20 08:05	MD3A	ECL 1
Total/NA	Analysis	6010B		1			63057	04/14/20 12:20	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B7-3.0
Lab Sample ID: 570-25647-2
Date Collected: 04/13/20 12:43
Matrix: Solid
Date Received: 04/13/20 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.03 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 16:22	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			1.99 g	100 mL	62941	04/14/20 08:05	MD3A	ECL 1
Total/NA	Analysis	6010B		1			63057	04/14/20 12:22	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B8-0.5
Lab Sample ID: 570-25647-3
Date Collected: 04/13/20 11:58
Matrix: Solid
Date Received: 04/13/20 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.03 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 15:11	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.03 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		10			63013	04/14/20 15:59	UHHN	ECL 1
	Instrument ID: GC51									
Total/NA	Prep	3050B			1.95 g	100 mL	62941	04/14/20 08:05	MD3A	ECL 1
Total/NA	Analysis	6010B		1			63057	04/14/20 12:24	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B8-3.0
Lab Sample ID: 570-25647-4
Date Collected: 04/13/20 12:13
Matrix: Solid
Date Received: 04/13/20 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			19.96 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 15:26	UHHN	ECL 1
	Instrument ID: GC44									

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25647-1

Client Sample ID: B8-3.0
Date Collected: 04/13/20 12:13
Date Received: 04/13/20 14:07

Lab Sample ID: 570-25647-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.98 g	100 mL	62941	04/14/20 08:05	MD3A	ECL 1
Total/NA	Analysis	6010B		1			63057	04/14/20 12:25	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B9-0.5
Date Collected: 04/13/20 11:33
Date Received: 04/13/20 14:07

Lab Sample ID: 570-25647-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.05 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 15:40	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.03 g	100 mL	62941	04/14/20 08:05	MD3A	ECL 1
Total/NA	Analysis	6010B		1			63057	04/14/20 12:28	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B9-3.0
Date Collected: 04/13/20 11:43
Date Received: 04/13/20 14:07

Lab Sample ID: 570-25647-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.07 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 15:54	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.02 g	100 mL	62941	04/14/20 08:05	MD3A	ECL 1
Total/NA	Analysis	6010B		1			63057	04/14/20 12:30	OYW3	ECL 1
	Instrument ID: ICP8									

Client Sample ID: B10-0.5
Date Collected: 04/13/20 13:00
Date Received: 04/13/20 14:07

Lab Sample ID: 570-25647-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.05 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 14:55	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.05 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		20			63013	04/14/20 15:45	UHHN	ECL 1
	Instrument ID: GC51									
Total/NA	Prep	3545			20.05 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		100			63013	04/14/20 16:27	UHHN	ECL 1
	Instrument ID: GC51									
Total/NA	Prep	3050B			2.05 g	100 mL	62941	04/14/20 08:05	MD3A	ECL 1
Total/NA	Analysis	6010B		1			63057	04/14/20 12:32	OYW3	ECL 1
	Instrument ID: ICP8									

Lab Chronicle

Client: EEC Environmental
Job ID: 570-25647-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B10-3.0
Lab Sample ID: 570-25647-8
Date Collected: 04/13/20 13:20
Matrix: Solid
Date Received: 04/13/20 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.08 g	10 mL	62993	04/14/20 09:27	F7UI	ECL 1
Total/NA	Analysis	8081A		1			62847	04/14/20 16:08	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3050B			2.07 g	100 mL	62941	04/14/20 08:05	MD3A	ECL 1
Total/NA	Analysis	6010B		1			63057	04/14/20 12:34	OYW3	ECL 1
	Instrument ID: ICP8									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: EEC Environmental
Job ID: 570-25647-1
Project/Site: City of Huntington Beach / S-3506.02T

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: EEC Environmental
Job ID: 570-25647-1
Project/Site: City of Huntington Beach / S-3506.02T

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	ECL 1
6010B	Metals (ICP)	SW846	ECL 1
3050B	Preparation, Metals	SW846	ECL 1
3545	Pressurized Fluid Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: EEC Environmental
Job ID: 570-25647-1
Project/Site: City of Huntington Beach / S-3506.02T

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-25647-1	B7-0.5	Solid	04/13/20 12:25	04/13/20 14:07	
570-25647-2	B7-3.0	Solid	04/13/20 12:43	04/13/20 14:07	
570-25647-3	B8-0.5	Solid	04/13/20 11:58	04/13/20 14:07	
570-25647-4	B8-3.0	Solid	04/13/20 12:13	04/13/20 14:07	
570-25647-5	B9-0.5	Solid	04/13/20 11:33	04/13/20 14:07	
570-25647-6	B9-3.0	Solid	04/13/20 11:43	04/13/20 14:07	
570-25647-7	B10-0.5	Solid	04/13/20 13:00	04/13/20 14:07	
570-25647-8	B10-3.0	Solid	04/13/20 13:20	04/13/20 14:07	

Loc: 570
25647

1190 4/15/2020

eurofins | Calscience
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

570-25647 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: 4/13/2020

PAGE: 1 OF 2

LABORATORY CLIENT: EEC Environmental		CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T 17631	P.O. NO.:
ADDRESS: One City Blvd. West #1800		PROJECT CONTACT: Laura Holder/Allison Burnap	LAB CONTACT OR QUOTE NO.
CITY: Orange	STATE: CA ZIP: 92868	SAMPLER(S): (SIGNATURE) Allison Burnap	LAB USE ONLY
TEL: (714) 667-2300	FAX: (714) 667-2310 E-MAIL:		

TURNAROUND TIME:
☐ SAME DAY ■ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	OCPs EPA 8081A	Lead EPA 6010B
1	B7-0.5	Northwest corner	4/13/20	1225	SO	1		X	X
2	B7-3.0	Northwest corner	4/13/20	1243	SO	1		X	X
3	B8-0.5	Southwest corner	4/13/20	1158	SO	1		X	X
4	B8-3.0	Southwest corner	4/13/20	1213	SO	1		X	X
5	B9-0.5	Northeast corner	4/13/20	1133	SO	1		X	X
6	B9-3.0	Northeast corner	4/13/20	1143	SO	1		X	X
7	B10-0.5	N Step out B6	4/13/20	1300	SO	1		X	X
8	B10-3.0	N Step out B6	4/13/20	1320	SO	1		X	X
	B11-0.5	E Step out B6			SO	1		X	X
	B11-3.0	E Step out B6			SO	1		X	X
	B12-0.5	S Step out B6			SO	1		X	X
	B12-3.0	S Step out B6			SO	1		X	X

Relinquished by: (Signature)	Received by: (Signature) ECI	Date: 4-13-2020	Time: 14:07
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

3.0/2.1 SC6

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Login Sample Receipt Checklist

Client: EEC Environmental

Job Number: 570-25647-1

Login Number: 25647
List Number: 1
Creator: Andujo, Italy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-25950-1
Client Project/Site: City of Huntington Beach / S-3506.02T

For:
EEC Environmental
One City Blvd
Suite 1800
Orange, California 92868

Attn: Laura Holder

Authorized for release by:
4/17/2020 3:58:18 PM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

Table of Contents

Definitions/Glossary

Client: EEC Environmental
Job ID: 570-25950-1
Project/Site: City of Huntington Beach / S-3506.02T

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25950-1

Job ID: 570-25950-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-25950-1

Comments
No additional comments.

Receipt
The samples were received on 4/16/2020 2:38 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC Semi VOA
Method 8081A: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-63501 and analytical batch 570-63508 recovered outside control limits for the following analytes: alpha-BHC, Aldrin, beta-BHC, Dieldrin, Endosulfan I, Endosulfan II, Endosulfan sulfate, Endrin aldehyde, Endrin ketone, gamma-BHC, Heptachlor and Heptachlor epoxide. The associated MS/MSD precision was within acceptance limits.therefore data has been reported and qualified.

Method 8081A: Due to the additional level of 4,4'-DDE and 4,4'-DDT present in the spiked samples, the concentration of 4,4'-DDE and 4,4'-DDT in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.

Method 8081A: The continuing calibration verification (CCV) associated with batch 570-63736 recovered above the upper control limit for <Hexachlorobenzene>. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported.

Method 8081A: The continuing calibration verification (CCV) associated with <Analytical Batch> recovered high and outside the control limits for < Endosulfan sulfate> on one column. Results are confirmed on both columns and reported from the passing column.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: EEC Environmental
Job ID: 570-25950-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B26-0.5
Lab Sample ID: 570-25950-1

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	230		50	ug/Kg	10		8081A	Total/NA
4,4'-DDT	43	*1	25	ug/Kg	5		8081A	Total/NA
Dieldrin	1.1	p *1	1.0	ug/Kg	1		8081A	Total/NA
Toxaphene	120		25	ug/Kg	1		8081A	Total/NA

Client Sample ID: B26-3.0
Lab Sample ID: 570-25950-2

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	29		5.0	ug/Kg	1		8081A	Total/NA

Client Sample ID: B27-0.5
Lab Sample ID: 570-25950-3

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	220		50	ug/Kg	10		8081A	Total/NA
4,4'-DDT	52	*1	50	ug/Kg	10		8081A	Total/NA
Toxaphene	100		25	ug/Kg	1		8081A	Total/NA

Client Sample ID: B27-3.0
Lab Sample ID: 570-25950-4

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	400		100	ug/Kg	20		8081A	Total/NA
4,4'-DDT	77		25	ug/Kg	5		8081A	Total/NA
Toxaphene	230		25	ug/Kg	1		8081A	Total/NA

Client Sample ID: B28-0.5
Lab Sample ID: 570-25950-5

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	420		100	ug/Kg	20		8081A	Total/NA
4,4'-DDT	130	*1	100	ug/Kg	20		8081A	Total/NA
Dieldrin	2.6	*1	1.0	ug/Kg	1		8081A	Total/NA
Toxaphene	180		25	ug/Kg	1		8081A	Total/NA

Client Sample ID: B28-3.0
Lab Sample ID: 570-25950-6

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	33		5.0	ug/Kg	1		8081A	Total/NA

Client Sample ID: B29-0.5
Lab Sample ID: 570-25950-7

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	95	*1	50	ug/Kg	10		8081A	Total/NA
4,4'-DDE	1000		250	ug/Kg	50		8081A	Total/NA
4,4'-DDT	360		50	ug/Kg	10		8081A	Total/NA
alpha-Chlordane	2.5	p *1	1.0	ug/Kg	1		8081A	Total/NA
Toxaphene	940		25	ug/Kg	1		8081A	Total/NA

Client Sample ID: B29-3.0
Lab Sample ID: 570-25950-8

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	61		25	ug/Kg	5		8081A	Total/NA
4,4'-DDT	27	*1	5.0	ug/Kg	1		8081A	Total/NA
Toxaphene	37		25	ug/Kg	1		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EEC Environmental
Job ID: 570-25950-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B30-0.5
Lab Sample ID: 570-25950-9

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	38		5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDE	460		100	ug/Kg	20		8081A	Total/NA
4,4'-DDT	120	*1	100	ug/Kg	20		8081A	Total/NA
alpha-Chlordane	2.4	*1	1.0	ug/Kg	1		8081A	Total/NA
Toxaphene	410		25	ug/Kg	1		8081A	Total/NA

Client Sample ID: B30-3.0
Lab Sample ID: 570-25950-10

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	20		5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDT	8.2	*1	5.0	ug/Kg	1		8081A	Total/NA

Client Sample ID: B31-0.5
Lab Sample ID: 570-25950-11

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	11	p *1	5.0	ug/Kg	1		8081A	Total/NA
4,4'-DDE	650		100	ug/Kg	20		8081A	Total/NA
4,4'-DDT	130	*1	100	ug/Kg	20		8081A	Total/NA
alpha-Chlordane	2.1	p *1	1.0	ug/Kg	1		8081A	Total/NA
Toxaphene	380	p	25	ug/Kg	1		8081A	Total/NA

Client Sample ID: B31-3.0
Lab Sample ID: 570-25950-12

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	190		50	ug/Kg	10		8081A	Total/NA
4,4'-DDT	62	*1	50	ug/Kg	10		8081A	Total/NA
Toxaphene	120	p	25	ug/Kg	1		8081A	Total/NA

Client Sample ID: B32-0.5
Lab Sample ID: 570-25950-13

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	93	*1	25	ug/Kg	5		8081A	Total/NA
4,4'-DDE	1600		250	ug/Kg	50		8081A	Total/NA
4,4'-DDT	440	*1	250	ug/Kg	50		8081A	Total/NA
Toxaphene	1200		25	ug/Kg	1		8081A	Total/NA

Client Sample ID: B32-3.0
Lab Sample ID: 570-25950-14

Analyte	Result	Qualifier	RL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	85		25	ug/Kg	5		8081A	Total/NA
4,4'-DDT	33	*1	25	ug/Kg	5		8081A	Total/NA
Toxaphene	50		25	ug/Kg	1		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 8081A - Organochlorine Pesticides (GC)

Client Sample ID: B26-0.5
Lab Sample ID: 570-25950-1
Date Collected: 04/16/20 12:20
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
4,4'-DDE	**230**		50	ug/Kg		04/16/20 16:13	04/17/20 12:42	10
4,4'-DDT	**43**	*1	25	ug/Kg		04/16/20 16:13	04/17/20 10:47	5
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
alpha-Chlordane	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Dieldrin	**1.1**	**p *1**	1.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 08:38	1
Toxaphene	**120**		25	ug/Kg		04/16/20 16:13	04/17/20 08:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*23 - 124*	*04/16/20 16:13*	*04/17/20 08:38*	*1*
Tetrachloro-m-xylene	*64*		*23 - 124*	*04/16/20 16:13*	*04/17/20 10:47*	*5*
Tetrachloro-m-xylene	*67*		*23 - 124*	*04/16/20 16:13*	*04/17/20 12:42*	*10*
DCB Decachlorobiphenyl (Surr)	*67*		*20 - 137*	*04/16/20 16:13*	*04/17/20 08:38*	*1*
DCB Decachlorobiphenyl (Surr)	*56*		*20 - 137*	*04/16/20 16:13*	*04/17/20 10:47*	*5*
DCB Decachlorobiphenyl (Surr)	*60*		*20 - 137*	*04/16/20 16:13*	*04/17/20 12:42*	*10*

Client Sample ID: B26-3.0
Lab Sample ID: 570-25950-2
Date Collected: 04/16/20 12:40
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
4,4'-DDE	**29**		5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
4,4'-DDT	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
alpha-Chlordane	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B26-3.0
Date Collected: 04/16/20 12:40
Date Received: 04/16/20 14:38
Lab Sample ID: 570-25950-2
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 08:52	1
Toxaphene	ND		25	ug/Kg		04/16/20 16:13	04/17/20 08:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*23 - 124*	*04/16/20 16:13*	*04/17/20 08:52*	*1*
DCB Decachlorobiphenyl (Surr)	*78*		*20 - 137*	*04/16/20 16:13*	*04/17/20 08:52*	*1*

Client Sample ID: B27-0.5
Date Collected: 04/16/20 12:55
Date Received: 04/16/20 14:38
Lab Sample ID: 570-25950-3
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
4,4'-DDE	**220**		50	ug/Kg		04/16/20 16:13	04/17/20 11:01	10
4,4'-DDT	**52**	*1	50	ug/Kg		04/16/20 16:13	04/17/20 11:01	10
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
alpha-Chlordane	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 09:06	1
Toxaphene	**100**		25	ug/Kg		04/16/20 16:13	04/17/20 09:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*23 - 124*	*04/16/20 16:13*	*04/17/20 09:06*	*1*
Tetrachloro-m-xylene	*69*		*23 - 124*	*04/16/20 16:13*	*04/17/20 11:01*	*10*
DCB Decachlorobiphenyl (Surr)	*74*		*20 - 137*	*04/16/20 16:13*	*04/17/20 09:06*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*20 - 137*	*04/16/20 16:13*	*04/17/20 11:01*	*10*

Client Sample ID: B27-3.0
Date Collected: 04/16/20 13:15
Date Received: 04/16/20 14:38
Lab Sample ID: 570-25950-4
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B27-3.0
Lab Sample ID: 570-25950-4
Date Collected: 04/16/20 13:15
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	**400**		100	ug/Kg		04/16/20 16:13	04/17/20 11:16	20
4,4'-DDT	**77**		25	ug/Kg		04/16/20 16:13	04/17/20 13:34	5
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
alpha-Chlordane	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 09:26	1
Toxaphene	**230**		25	ug/Kg		04/16/20 16:13	04/17/20 09:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*23 - 124*	*04/16/20 16:13*	*04/17/20 09:26*	*1*
Tetrachloro-m-xylene	*78*		*23 - 124*	*04/16/20 16:13*	*04/17/20 11:16*	*20*
Tetrachloro-m-xylene	*77*		*23 - 124*	*04/16/20 16:13*	*04/17/20 13:34*	*5*
DCB Decachlorobiphenyl (Surr)	*76*		*20 - 137*	*04/16/20 16:13*	*04/17/20 09:26*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*20 - 137*	*04/16/20 16:13*	*04/17/20 11:16*	*20*
DCB Decachlorobiphenyl (Surr)	*70*		*20 - 137*	*04/16/20 16:13*	*04/17/20 13:34*	*5*

Client Sample ID: B28-0.5
Lab Sample ID: 570-25950-5
Date Collected: 04/16/20 13:25
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
4,4'-DDE	**420**		100	ug/Kg		04/16/20 16:13	04/17/20 11:30	20
4,4'-DDT	**130**	***1**	100	ug/Kg		04/16/20 16:13	04/17/20 11:30	20
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
alpha-Chlordane	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Dieldrin	**2.6**	***1**	1.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B28-0.5
Lab Sample ID: 570-25950-5
Date Collected: 04/16/20 13:25
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 09:40	1
Toxaphene	**180**		25	ug/Kg		04/16/20 16:13	04/17/20 09:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*23 - 124*	*04/16/20 16:13*	*04/17/20 09:40*	*1*
Tetrachloro-m-xylene	*85*		*23 - 124*	*04/16/20 16:13*	*04/17/20 11:30*	*20*
DCB Decachlorobiphenyl (Surr)	*78*		*20 - 137*	*04/16/20 16:13*	*04/17/20 09:40*	*1*
DCB Decachlorobiphenyl (Surr)	*79*		*20 - 137*	*04/16/20 16:13*	*04/17/20 11:30*	*20*

Client Sample ID: B28-3.0
Lab Sample ID: 570-25950-6
Date Collected: 04/16/20 13:40
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
4,4'-DDE	**33**		5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
4,4'-DDT	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
alpha-Chlordane	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 09:54	1
Toxaphene	ND		25	ug/Kg		04/16/20 16:13	04/17/20 09:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*23 - 124*	*04/16/20 16:13*	*04/17/20 09:54*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*20 - 137*	*04/16/20 16:13*	*04/17/20 09:54*	*1*

Client Sample ID: B29-0.5
Lab Sample ID: 570-25950-7
Date Collected: 04/16/20 08:50
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**95**	*1	50	ug/Kg		04/16/20 16:13	04/17/20 11:44	10
4,4'-DDE	**1000**		250	ug/Kg		04/16/20 16:13	04/17/20 11:59	50

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B29-0.5
Lab Sample ID: 570-25950-7
Date Collected: 04/16/20 08:50
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDT	**360**		50	ug/Kg		04/16/20 16:13	04/17/20 11:44	10
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
alpha-Chlordane	**2.5**	p *1	1.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 10:08	1
Toxaphene	**940**		25	ug/Kg		04/16/20 16:13	04/17/20 10:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*79*		*23 - 124*	*04/16/20 16:13*	*04/17/20 10:08*	*1*
Tetrachloro-m-xylene	*90*		*23 - 124*	*04/16/20 16:13*	*04/17/20 11:44*	*10*
Tetrachloro-m-xylene	*103*		*23 - 124*	*04/16/20 16:13*	*04/17/20 11:59*	*50*
DCB Decachlorobiphenyl (Surr)	*82*		*20 - 137*	*04/16/20 16:13*	*04/17/20 10:08*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*20 - 137*	*04/16/20 16:13*	*04/17/20 11:44*	*10*
DCB Decachlorobiphenyl (Surr)	*110*		*20 - 137*	*04/16/20 16:13*	*04/17/20 11:59*	*50*

Client Sample ID: B29-3.0
Lab Sample ID: 570-25950-8
Date Collected: 04/16/20 09:15
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
4,4'-DDE	**61**		25	ug/Kg		04/16/20 16:13	04/17/20 12:13	5
4,4'-DDT	**27**	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
alpha-Chlordane	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B29-3.0
Date Collected: 04/16/20 09:15
Date Received: 04/16/20 14:38
Lab Sample ID: 570-25950-8
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 10:23	1
Toxaphene	**37**		25	ug/Kg		04/16/20 16:13	04/17/20 10:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*68*		*23 - 124*	*04/16/20 16:13*	*04/17/20 10:23*	*1*
Tetrachloro-m-xylene	*66*		*23 - 124*	*04/16/20 16:13*	*04/17/20 12:13*	*5*
DCB Decachlorobiphenyl (Surr)	*73*		*20 - 137*	*04/16/20 16:13*	*04/17/20 10:23*	*1*
DCB Decachlorobiphenyl (Surr)	*62*		*20 - 137*	*04/16/20 16:13*	*04/17/20 12:13*	*5*

Client Sample ID: B30-0.5
Date Collected: 04/16/20 09:40
Date Received: 04/16/20 14:38
Lab Sample ID: 570-25950-9
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**38**		5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
4,4'-DDE	**460**		100	ug/Kg		04/16/20 16:13	04/17/20 12:27	20
4,4'-DDT	**120**	***1**	100	ug/Kg		04/16/20 16:13	04/17/20 12:27	20
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
alpha-Chlordane	**2.4**	***1**	1.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 10:37	1
Toxaphene	**410**		25	ug/Kg		04/16/20 16:13	04/17/20 10:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*23 - 124*	*04/16/20 16:13*	*04/17/20 10:37*	*1*
Tetrachloro-m-xylene	*61*		*23 - 124*	*04/16/20 16:13*	*04/17/20 12:27*	*20*
DCB Decachlorobiphenyl (Surr)	*78*		*20 - 137*	*04/16/20 16:13*	*04/17/20 10:37*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*20 - 137*	*04/16/20 16:13*	*04/17/20 12:27*	*20*

Client Sample ID: B30-3.0
Date Collected: 04/16/20 10:15
Date Received: 04/16/20 14:38
Lab Sample ID: 570-25950-10
Matrix: Solid

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B30-3.0
Lab Sample ID: 570-25950-10
Date Collected: 04/16/20 10:15
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	**20**		5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
4,4'-DDT	**8.2**	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
alpha-Chlordane	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 10:51	1
Toxaphene	ND		25	ug/Kg		04/16/20 16:13	04/17/20 10:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*23 - 124*	*04/16/20 16:13*	*04/17/20 10:51*	*1*
DCB Decachlorobiphenyl (Surr)	*77*	*p*	*20 - 137*	*04/16/20 16:13*	*04/17/20 10:51*	*1*

Client Sample ID: B31-0.5
Lab Sample ID: 570-25950-11
Date Collected: 04/16/20 10:30
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**11**	p *1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
4,4'-DDE	**650**		100	ug/Kg		04/16/20 16:13	04/17/20 12:56	20
4,4'-DDT	**130**	*1	100	ug/Kg		04/16/20 16:13	04/17/20 12:56	20
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
alpha-Chlordane	**2.1**	p *1	1.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B31-0.5
Lab Sample ID: 570-25950-11
Date Collected: 04/16/20 10:30
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 11:05	1
Toxaphene	**380**	**p**	25	ug/Kg		04/16/20 16:13	04/17/20 11:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*65*		*23 - 124*	*04/16/20 16:13*	*04/17/20 11:05*	*1*
Tetrachloro-m-xylene	*78*		*23 - 124*	*04/16/20 16:13*	*04/17/20 12:56*	*20*
DCB Decachlorobiphenyl (Surr)	*70*		*20 - 137*	*04/16/20 16:13*	*04/17/20 11:05*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*20 - 137*	*04/16/20 16:13*	*04/17/20 12:56*	*20*

Client Sample ID: B31-3.0
Lab Sample ID: 570-25950-12
Date Collected: 04/16/20 11:00
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
4,4'-DDE	**190**		50	ug/Kg		04/16/20 16:13	04/17/20 13:48	10
4,4'-DDT	**62**	***1**	50	ug/Kg		04/16/20 16:13	04/17/20 13:48	10
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
alpha-Chlordane	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 11:19	1
Toxaphene	**120**	**p**	25	ug/Kg		04/16/20 16:13	04/17/20 11:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*23 - 124*	*04/16/20 16:13*	*04/17/20 11:19*	*1*
Tetrachloro-m-xylene	*65*		*23 - 124*	*04/16/20 16:13*	*04/17/20 13:48*	*10*
DCB Decachlorobiphenyl (Surr)	*75*	*p*	*20 - 137*	*04/16/20 16:13*	*04/17/20 11:19*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*20 - 137*	*04/16/20 16:13*	*04/17/20 13:48*	*10*

Client Sample ID: B32-0.5
Lab Sample ID: 570-25950-13
Date Collected: 04/16/20 11:10
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**93**	***1**	25	ug/Kg		04/16/20 16:13	04/17/20 14:02	5
4,4'-DDE	**1600**		250	ug/Kg		04/16/20 16:13	04/17/20 14:16	50
4,4'-DDT	**440**	***1**	250	ug/Kg		04/16/20 16:13	04/17/20 14:16	50
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B32-0.5
Lab Sample ID: 570-25950-13
Date Collected: 04/16/20 11:10
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
alpha-Chlordane	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 11:33	1
Toxaphene	**1200**		25	ug/Kg		04/16/20 16:13	04/17/20 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*23 - 124*	*04/16/20 16:13*	*04/17/20 11:33*	*1*
Tetrachloro-m-xylene	*73*		*23 - 124*	*04/16/20 16:13*	*04/17/20 14:02*	*5*
Tetrachloro-m-xylene	*90*		*23 - 124*	*04/16/20 16:13*	*04/17/20 14:16*	*50*
DCB Decachlorobiphenyl (Surr)	*73*	*p*	*20 - 137*	*04/16/20 16:13*	*04/17/20 11:33*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*20 - 137*	*04/16/20 16:13*	*04/17/20 14:02*	*5*
DCB Decachlorobiphenyl (Surr)	*86*		*20 - 137*	*04/16/20 16:13*	*04/17/20 14:16*	*50*

Client Sample ID: B32-3.0
Lab Sample ID: 570-25950-14
Date Collected: 04/16/20 11:30
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
4,4'-DDE	**85**		25	ug/Kg		04/16/20 16:13	04/17/20 14:29	5
4,4'-DDT	**33**	*1	25	ug/Kg		04/16/20 16:13	04/17/20 14:29	5
Aldrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
alpha-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
alpha-Chlordane	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
beta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
Chlordane	ND		25	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
delta-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
Dieldrin	ND	*1	1.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
Endosulfan I	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
Endosulfan II	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
Endosulfan sulfate	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
Endrin	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
Endrin aldehyde	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
Endrin ketone	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
gamma-BHC	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
Heptachlor	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Client Sample ID: B32-3.0
Lab Sample ID: 570-25950-14
Date Collected: 04/16/20 11:30
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND	*1	5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 16:13	04/17/20 11:48	1
Toxaphene	**50**		25	ug/Kg		04/16/20 16:13	04/17/20 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*62*		*23 - 124*	*04/16/20 16:13*	*04/17/20 11:48*	*1*
Tetrachloro-m-xylene	*68*		*23 - 124*	*04/16/20 16:13*	*04/17/20 14:29*	*5*
DCB Decachlorobiphenyl (Surr)	*70*		*20 - 137*	*04/16/20 16:13*	*04/17/20 11:48*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*20 - 137*	*04/16/20 16:13*	*04/17/20 14:29*	*5*

Surrogate Summary

Client: EEC Environmental
Job ID: 570-25950-1
Project/Site: City of Huntington Beach / S-3506.02T

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid
Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX1	DCB1
Lab Sample ID	Client Sample ID	(23-124)	(20-137)
570-25950-1	B26-0.5	68	67
570-25950-1	B26-0.5	67	60
570-25950-1	B26-0.5	64	56
570-25950-2	B26-3.0	77	78
570-25950-3	B27-0.5	74	74
570-25950-3	B27-0.5	69	63
570-25950-3 MS	B27-0.5	58	58
570-25950-3 MSD	B27-0.5	58	58
570-25950-4	B27-3.0	74	76
570-25950-4	B27-3.0	78	73
570-25950-4	B27-3.0	77	70
570-25950-5	B28-0.5	78	78
570-25950-5	B28-0.5	85	79
570-25950-6	B28-3.0	80	81
570-25950-7	B29-0.5	79	82
570-25950-7	B29-0.5	90	94
570-25950-7	B29-0.5	103	110
570-25950-8	B29-3.0	68	73
570-25950-8	B29-3.0	66	62
570-25950-9	B30-0.5	71	78
570-25950-9	B30-0.5	61	64
570-25950-10	B30-3.0	74	77 p
570-25950-11	B31-0.5	65	70
570-25950-11	B31-0.5	78	73
570-25950-12	B31-3.0	66	75 p
570-25950-12	B31-3.0	65	64
570-25950-13	B32-0.5	72	73 p
570-25950-13	B32-0.5	73	70
570-25950-13	B32-0.5	90	86
570-25950-14	B32-3.0	62	70
570-25950-14	B32-3.0	68	60
LCS 570-63501/2-A	Lab Control Sample	80	78
LCSD 570-63501/3-A	Lab Control Sample Dup	97	93
MB 570-63501/1-A	Method Blank	78	77

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 570-63501/1-A
Matrix: Solid
Analysis Batch: 63508

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 63501

Analyte	MB Result	MB Qualifier	RL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
4,4'-DDE	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
4,4'-DDT	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Aldrin	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
alpha-BHC	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
alpha-Chlordane	ND		1.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
beta-BHC	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Chlordane	ND		25	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
delta-BHC	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Dieldrin	ND		1.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Endosulfan I	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Endosulfan II	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Endosulfan sulfate	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Endrin	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Endrin aldehyde	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Endrin ketone	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
gamma-Chlordane	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
gamma-BHC	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Heptachlor	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Heptachlor epoxide	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Methoxychlor	ND		5.0	ug/Kg		04/16/20 11:47	04/17/20 07:27	1
Toxaphene	ND		25	ug/Kg		04/16/20 11:47	04/17/20 07:27	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*23 - 124*	*04/16/20 11:47*	*04/17/20 07:27*	*1*
DCB Decachlorobiphenyl (Surr)	*77*		*20 - 137*	*04/16/20 11:47*	*04/17/20 07:27*	*1*

Lab Sample ID: LCS 570-63501/2-A
Matrix: Solid
Analysis Batch: 63508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	25.0	17.53		ug/Kg		70	50 - 149
4,4'-DDE	25.0	18.27		ug/Kg		73	48 - 144
4,4'-DDT	25.0	19.67		ug/Kg		79	37 - 149
Aldrin	25.0	17.50		ug/Kg		70	43 - 139
alpha-BHC	25.0	17.85		ug/Kg		71	51 - 138
alpha-Chlordane	25.0	17.56		ug/Kg		70	47 - 136
beta-BHC	25.0	17.84		ug/Kg		71	47 - 135
delta-BHC	25.0	15.81		ug/Kg		63	40 - 146
Dieldrin	25.0	18.44		ug/Kg		74	48 - 141
Endosulfan I	25.0	16.84		ug/Kg		67	43 - 139
Endosulfan II	25.0	18.22		ug/Kg		73	48 - 142
Endosulfan sulfate	25.0	18.88		ug/Kg		76	47 - 144
Endrin	25.0	18.19		ug/Kg		73	35 - 144
Endrin aldehyde	25.0	16.63		ug/Kg		67	35 - 138
gamma-Chlordane	25.0	18.29		ug/Kg		73	33 - 155
gamma-BHC	25.0	17.42		ug/Kg		70	51 - 137

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 570-63501/2-A
Matrix: Solid
Analysis Batch: 63508

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 63501

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Heptachlor	25.0	18.13		ug/Kg		73	47 - 137
Heptachlor epoxide	25.0	17.38		ug/Kg		70	49 - 135
Methoxychlor	25.0	20.75		ug/Kg		83	39 - 142

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*80*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*78*		*20 - 137*

Lab Sample ID: LCSD 570-63501/3-A
Matrix: Solid
Analysis Batch: 63508

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 63501

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	25.0	21.18	*1	ug/Kg		85	50 - 149	19	17
4,4'-DDE	25.0	21.99		ug/Kg		88	48 - 144	18	18
4,4'-DDT	25.0	23.29		ug/Kg		93	37 - 149	17	17
Aldrin	25.0	21.86	*1	ug/Kg		87	43 - 139	22	15
alpha-BHC	25.0	21.93	*1	ug/Kg		88	51 - 138	21	17
alpha-Chlordane	25.0	21.21	*1	ug/Kg		85	47 - 136	19	16
beta-BHC	25.0	21.58	*1	ug/Kg		86	47 - 135	19	17
delta-BHC	25.0	19.12		ug/Kg		76	40 - 146	19	20
Dieldrin	25.0	22.43	*1	ug/Kg		90	48 - 141	19	16
Endosulfan I	25.0	21.50	*1	ug/Kg		86	43 - 139	24	16
Endosulfan II	25.0	21.65	*1	ug/Kg		87	48 - 142	17	16
Endosulfan sulfate	25.0	22.29	*1	ug/Kg		89	47 - 144	17	16
Endrin	25.0	21.86		ug/Kg		87	35 - 144	18	18
Endrin aldehyde	25.0	19.65	*1	ug/Kg		79	35 - 138	17	13
gamma-Chlordane	25.0	22.61		ug/Kg		90	33 - 155	21	59
gamma-BHC	25.0	21.43	*1	ug/Kg		86	51 - 137	21	17
Heptachlor	25.0	22.39	*1	ug/Kg		90	47 - 137	21	17
Heptachlor epoxide	25.0	21.62	*1	ug/Kg		86	49 - 135	22	17
Methoxychlor	25.0	24.09		ug/Kg		96	39 - 142	15	17

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*97*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*93*		*20 - 137*

Lab Sample ID: 570-25950-3 MS
Matrix: Solid
Analysis Batch: 63508

Client Sample ID: B27-0.5
Prep Type: Total/NA
Prep Batch: 63501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND	*1	25.0	16.00		ug/Kg		59	12 - 180
4,4'-DDE	270	E	25.0	217.2	E 4	ug/Kg		-217	8 - 184
4,4'-DDT	64	E	25.0	69.51	E	ug/Kg		21	2 - 187
Aldrin	ND	*1	25.0	14.06		ug/Kg		56	9 - 153
alpha-BHC	ND	*1	25.0	13.58		ug/Kg		54	10 - 149
alpha-Chlordane	ND	*1	25.0	14.35		ug/Kg		57	9 - 161

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 570-25950-3 MS
Matrix: Solid
Analysis Batch: 63508

Client Sample ID: B27-0.5
Prep Type: Total/NA
Prep Batch: 63501

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
beta-BHC	ND	*1	25.0	16.92		ug/Kg		68	9 - 156
delta-BHC	ND	*1	25.0	12.77		ug/Kg		51	6 - 162
Dieldrin	ND	*1	25.0	16.39		ug/Kg		63	11 - 164
Endosulfan I	ND	*1	25.0	15.08		ug/Kg		60	4 - 156
Endosulfan II	ND	*1	25.0	17.34		ug/Kg		69	12 - 161
Endosulfan sulfate	ND	*1	25.0	16.20		ug/Kg		65	10 - 165
Endrin	ND	*1	25.0	15.33		ug/Kg		61	6 - 166
Endrin aldehyde	ND	*1	25.0	13.04	p	ug/Kg		52	1 - 156
gamma-Chlordane	ND		25.0	13.39	p	ug/Kg		54	7 - 177
gamma-BHC	ND	*1	25.0	13.61		ug/Kg		55	9 - 154
Heptachlor	ND	*1	25.0	14.05		ug/Kg		56	3 - 150
Heptachlor epoxide	ND	*1	25.0	15.07		ug/Kg		60	7 - 169
Methoxychlor	ND		25.0	22.14		ug/Kg		89	8 - 163

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*58*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*58*		*20 - 137*

Lab Sample ID: 570-25950-3 MSD
Matrix: Solid
Analysis Batch: 63508

Client Sample ID: B27-0.5
Prep Type: Total/NA
Prep Batch: 63501

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND	*1	25.0	15.74		ug/Kg		58	12 - 180	2	79
4,4'-DDE	270	E	25.0	213.1	E 4	ug/Kg		-233	8 - 184	2	76
4,4'-DDT	64	E	25.0	67.47	E	ug/Kg		12	2 - 187	3	78
Aldrin	ND	*1	25.0	14.23		ug/Kg		57	9 - 153	1	77
alpha-BHC	ND	*1	25.0	13.59		ug/Kg		54	10 - 149	0	85
alpha-Chlordane	ND	*1	25.0	14.22		ug/Kg		57	9 - 161	1	79
beta-BHC	ND	*1	25.0	16.69		ug/Kg		67	9 - 156	1	78
delta-BHC	ND	*1	25.0	12.80		ug/Kg		51	6 - 162	0	85
Dieldrin	ND	*1	25.0	16.09		ug/Kg		62	11 - 164	2	77
Endosulfan I	ND	*1	25.0	14.89		ug/Kg		60	4 - 156	1	77
Endosulfan II	ND	*1	25.0	16.75		ug/Kg		67	12 - 161	3	77
Endosulfan sulfate	ND	*1	25.0	15.73		ug/Kg		63	10 - 165	3	73
Endrin	ND	*1	25.0	15.05		ug/Kg		60	6 - 166	2	82
Endrin aldehyde	ND	*1	25.0	19.14		ug/Kg		77	1 - 156	38	83
gamma-Chlordane	ND		25.0	13.34	p	ug/Kg		53	7 - 177	0	84
gamma-BHC	ND	*1	25.0	13.63		ug/Kg		55	9 - 154	0	79
Heptachlor	ND	*1	25.0	14.05		ug/Kg		56	3 - 150	0	85
Heptachlor epoxide	ND	*1	25.0	14.67		ug/Kg		59	7 - 169	3	79
Methoxychlor	ND		25.0	19.30		ug/Kg		77	8 - 163	14	78

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*58*		*23 - 124*
DCB Decachlorobiphenyl (Surr)	*58*		*20 - 137*

QC Association Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25950-1

GC Semi VOA

Prep Batch: 63501

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25950-1	B26-0.5	Total/NA	Solid	3545	
570-25950-2	B26-3.0	Total/NA	Solid	3545	
570-25950-3	B27-0.5	Total/NA	Solid	3545	
570-25950-4	B27-3.0	Total/NA	Solid	3545	
570-25950-5	B28-0.5	Total/NA	Solid	3545	
570-25950-6	B28-3.0	Total/NA	Solid	3545	
570-25950-7	B29-0.5	Total/NA	Solid	3545	
570-25950-8	B29-3.0	Total/NA	Solid	3545	
570-25950-9	B30-0.5	Total/NA	Solid	3545	
570-25950-10	B30-3.0	Total/NA	Solid	3545	
570-25950-11	B31-0.5	Total/NA	Solid	3545	
570-25950-12	B31-3.0	Total/NA	Solid	3545	
570-25950-13	B32-0.5	Total/NA	Solid	3545	
570-25950-14	B32-3.0	Total/NA	Solid	3545	
MB 570-63501/1-A	Method Blank	Total/NA	Solid	3545	
LCS 570-63501/2-A	Lab Control Sample	Total/NA	Solid	3545	
LCSD 570-63501/3-A	Lab Control Sample Dup	Total/NA	Solid	3545	
570-25950-3 MS	B27-0.5	Total/NA	Solid	3545	
570-25950-3 MSD	B27-0.5	Total/NA	Solid	3545	

Analysis Batch: 63508

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25950-1	B26-0.5	Total/NA	Solid	8081A	63501
570-25950-2	B26-3.0	Total/NA	Solid	8081A	63501
570-25950-3	B27-0.5	Total/NA	Solid	8081A	63501
570-25950-4	B27-3.0	Total/NA	Solid	8081A	63501
570-25950-5	B28-0.5	Total/NA	Solid	8081A	63501
570-25950-6	B28-3.0	Total/NA	Solid	8081A	63501
570-25950-7	B29-0.5	Total/NA	Solid	8081A	63501
570-25950-8	B29-3.0	Total/NA	Solid	8081A	63501
570-25950-9	B30-0.5	Total/NA	Solid	8081A	63501
570-25950-10	B30-3.0	Total/NA	Solid	8081A	63501
570-25950-11	B31-0.5	Total/NA	Solid	8081A	63501
570-25950-12	B31-3.0	Total/NA	Solid	8081A	63501
570-25950-13	B32-0.5	Total/NA	Solid	8081A	63501
570-25950-14	B32-3.0	Total/NA	Solid	8081A	63501
MB 570-63501/1-A	Method Blank	Total/NA	Solid	8081A	63501
LCS 570-63501/2-A	Lab Control Sample	Total/NA	Solid	8081A	63501
LCSD 570-63501/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	63501
570-25950-3 MS	B27-0.5	Total/NA	Solid	8081A	63501
570-25950-3 MSD	B27-0.5	Total/NA	Solid	8081A	63501

Analysis Batch: 63736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25950-1	B26-0.5	Total/NA	Solid	8081A	63501
570-25950-1	B26-0.5	Total/NA	Solid	8081A	63501
570-25950-3	B27-0.5	Total/NA	Solid	8081A	63501
570-25950-4	B27-3.0	Total/NA	Solid	8081A	63501
570-25950-4	B27-3.0	Total/NA	Solid	8081A	63501
570-25950-5	B28-0.5	Total/NA	Solid	8081A	63501
570-25950-7	B29-0.5	Total/NA	Solid	8081A	63501

GC Semi VOA (Continued)

Analysis Batch: 63736 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25950-7	B29-0.5	Total/NA	Solid	8081A	63501
570-25950-8	B29-3.0	Total/NA	Solid	8081A	63501
570-25950-9	B30-0.5	Total/NA	Solid	8081A	63501
570-25950-11	B31-0.5	Total/NA	Solid	8081A	63501
570-25950-12	B31-3.0	Total/NA	Solid	8081A	63501
570-25950-13	B32-0.5	Total/NA	Solid	8081A	63501
570-25950-13	B32-0.5	Total/NA	Solid	8081A	63501
570-25950-14	B32-3.0	Total/NA	Solid	8081A	63501

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25950-1

Client Sample ID: B26-0.5

Date Collected: 04/16/20 12:20
Date Received: 04/16/20 14:38

Lab Sample ID: 570-25950-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.01 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 08:38	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.01 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		5			63736	04/17/20 10:47	UHHN	ECL 1
	Instrument ID: GC51									
Total/NA	Prep	3545			20.01 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		10			63736	04/17/20 12:42	UHHN	ECL 1
	Instrument ID: GC51									

Client Sample ID: B26-3.0

Date Collected: 04/16/20 12:40
Date Received: 04/16/20 14:38

Lab Sample ID: 570-25950-2

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.03 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 08:52	UHHN	ECL 1
	Instrument ID: GC44									

Client Sample ID: B27-0.5

Date Collected: 04/16/20 12:55
Date Received: 04/16/20 14:38

Lab Sample ID: 570-25950-3

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.01 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 09:06	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.01 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		10			63736	04/17/20 11:01	UHHN	ECL 1
	Instrument ID: GC51									

Client Sample ID: B27-3.0

Date Collected: 04/16/20 13:15
Date Received: 04/16/20 14:38

Lab Sample ID: 570-25950-4

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.03 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 09:26	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.03 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		20			63736	04/17/20 11:16	UHHN	ECL 1
	Instrument ID: GC51									
Total/NA	Prep	3545			20.03 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		5			63736	04/17/20 13:34	UHHN	ECL 1
	Instrument ID: GC51									

Lab Chronicle

Client: EEC Environmental
Job ID: 570-25950-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B28-0.5
Lab Sample ID: 570-25950-5
Date Collected: 04/16/20 13:25
Matrix: Solid
Date Received: 04/16/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.05 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 09:40	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.05 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		20			63736	04/17/20 11:30	UHHN	ECL 1
	Instrument ID: GC51									

Client Sample ID: B28-3.0
Lab Sample ID: 570-25950-6
Date Collected: 04/16/20 13:40
Matrix: Solid
Date Received: 04/16/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.04 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 09:54	UHHN	ECL 1
	Instrument ID: GC44									

Client Sample ID: B29-0.5
Lab Sample ID: 570-25950-7
Date Collected: 04/16/20 08:50
Matrix: Solid
Date Received: 04/16/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.06 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 10:08	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.06 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		10			63736	04/17/20 11:44	UHHN	ECL 1
	Instrument ID: GC51									
Total/NA	Prep	3545			20.06 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		50			63736	04/17/20 11:59	UHHN	ECL 1
	Instrument ID: GC51									

Client Sample ID: B29-3.0
Lab Sample ID: 570-25950-8
Date Collected: 04/16/20 09:15
Matrix: Solid
Date Received: 04/16/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.06 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 10:23	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.06 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		5			63736	04/17/20 12:13	UHHN	ECL 1
	Instrument ID: GC51									

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25950-1

Client Sample ID: B30-0.5

Date Collected: 04/16/20 09:40
Date Received: 04/16/20 14:38

Lab Sample ID: 570-25950-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.00 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 10:37	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.00 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		20			63736	04/17/20 12:27	UHHN	ECL 1
	Instrument ID: GC51									

Client Sample ID: B30-3.0

Date Collected: 04/16/20 10:15
Date Received: 04/16/20 14:38

Lab Sample ID: 570-25950-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.01 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 10:51	UHHN	ECL 1
	Instrument ID: GC44									

Client Sample ID: B31-0.5

Date Collected: 04/16/20 10:30
Date Received: 04/16/20 14:38

Lab Sample ID: 570-25950-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.00 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 11:05	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.00 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		20			63736	04/17/20 12:56	UHHN	ECL 1
	Instrument ID: GC51									

Client Sample ID: B31-3.0

Date Collected: 04/16/20 11:00
Date Received: 04/16/20 14:38

Lab Sample ID: 570-25950-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.00 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 11:19	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.00 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		10			63736	04/17/20 13:48	UHHN	ECL 1
	Instrument ID: GC51									

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25950-1

Client Sample ID: B32-0.5

Date Collected: 04/16/20 11:10
Date Received: 04/16/20 14:38

Lab Sample ID: 570-25950-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.00 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 11:33	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.00 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		5			63736	04/17/20 14:02	UHHN	ECL 1
	Instrument ID: GC51									
Total/NA	Prep	3545			20.00 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		50			63736	04/17/20 14:16	UHHN	ECL 1
	Instrument ID: GC51									

Client Sample ID: B32-3.0

Date Collected: 04/16/20 11:30
Date Received: 04/16/20 14:38

Lab Sample ID: 570-25950-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3545			20.00 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		1			63508	04/17/20 11:48	UHHN	ECL 1
	Instrument ID: GC44									
Total/NA	Prep	3545			20.00 g	10 mL	63501	04/16/20 16:13	USUL	ECL 1
Total/NA	Analysis	8081A		5			63736	04/17/20 14:29	UHHN	ECL 1
	Instrument ID: GC51									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: EEC Environmental
Job ID: 570-25950-1
Project/Site: City of Huntington Beach / S-3506.02T

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: EEC Environmental
Job ID: 570-25950-1
Project/Site: City of Huntington Beach / S-3506.02T

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	ECL 1
3545	Pressurized Fluid Extraction	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: EEC Environmental
Job ID: 570-25950-1
Project/Site: City of Huntington Beach / S-3506.02T

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-25950-1	B26-0.5	Solid	04/16/20 12:20	04/16/20 14:38	
570-25950-2	B26-3.0	Solid	04/16/20 12:40	04/16/20 14:38	
570-25950-3	B27-0.5	Solid	04/16/20 12:55	04/16/20 14:38	
570-25950-4	B27-3.0	Solid	04/16/20 13:15	04/16/20 14:38	
570-25950-5	B28-0.5	Solid	04/16/20 13:25	04/16/20 14:38	
570-25950-6	B28-3.0	Solid	04/16/20 13:40	04/16/20 14:38	
570-25950-7	B29-0.5	Solid	04/16/20 08:50	04/16/20 14:38	
570-25950-8	B29-3.0	Solid	04/16/20 09:15	04/16/20 14:38	
570-25950-9	B30-0.5	Solid	04/16/20 09:40	04/16/20 14:38	
570-25950-10	B30-3.0	Solid	04/16/20 10:15	04/16/20 14:38	
570-25950-11	B31-0.5	Solid	04/16/20 10:30	04/16/20 14:38	
570-25950-12	B31-3.0	Solid	04/16/20 11:00	04/16/20 14:38	
570-25950-13	B32-0.5	Solid	04/16/20 11:10	04/16/20 14:38	
570-25950-14	B32-3.0	Solid	04/16/20 11:30	04/16/20 14:38	

25950

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

570-25950 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: April 16, 2020
PAGE: 1 OF 2

LABORATORY CLIENT: EEC Environmental
ADDRESS: One City Blvd. West #1800
CITY: Orange STATE: CA ZIP: 92868
TEL: (714) 667-2300 FAX: (714) 667-2310 E-MAIL:

CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
P.O. NO.:
PROJECT CONTACT: Laura Holder/Kaelin Andelin
LAB CONTACT OR QUOTE NO.: Steve Nowak
SAMPLER(S): (SIGNATURE) Kaelin Andelin
LAB USE ONLY: ☐☐-☐☐☐☐

TURNAROUND TIME: ☐ SAME DAY ■ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY): ☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	OCPs EPA 8081A
1	B26-0.5	Step out B11-North	4/16	1220	SO	1		X
2	B26-3.0	Step out B11-North	↓	1240	SO	1		X
3	B27-0.5	Step out B11-East		1255	SO	1		X
4	B27-3.0	Step out B11-East		1315	SO	1		X
5	B28-0.5	Step out B11-South		1325	SO	1		X
6	B28-3.0	Step out B11-South		1340	SO	1		X
7	B29-0.5	Step out B7-North		0850	SO	1		X
8	B29-3.0	Step out B7-North		0915	SO	1		X
9	B30-0.5	Step out B7-East		0940	SO	1		X
10	B30-3.0	Step out B7-East		1015	SO	1		X
11	B31-0.5	Step out B7-South		1030	SO	1		X
12	B31-3.0	Step out B7-South	↓	1100	SO	1		X

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Kaelin Andelin	[signature] EC	4/16/20	1438

3.6/2.7 Sk

06/01/10 Revision

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1221
4/17/2020

25950

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: April 16, 2020
PAGE: 2 OF 2

LABORATORY CLIENT: EEC Environmental
ADDRESS: One City Blvd. West #1800
CITY: Orange STATE: CA ZIP: 92868
TEL: (714) 667-2300 FAX: (714) 667-2310 E-MAIL:

CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
P.O. NO.:
PROJECT CONTACT: Laura Holder/Kaelin Andelin
LAB CONTACT OR QUOTE NO.: Steve Nowak
SAMPLER(S): (SIGNATURE) Kaelin Andelin
LAB USE ONLY

TURNAROUND TIME:
☐ SAME DAY ■ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	OCPs EPA 8081A
13	B32-0.5	Step out B7-West	4/16	1110	SO	1		X
14	B32-3.0	Step out B7-West	↓	1130	SO	1		X

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature)	Date: 4/16/20	Time: 1438
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

Login Sample Receipt Checklist

Client: EEC Environmental

Job Number: 570-25950-1

Login Number: 25950
List Number: 1
Creator: Ramos, Maribel

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-25647-2
Client Project/Site: City of Huntington Beach / S-3506.02T
Revision: 1

For:
EEC Environmental
One City Blvd
Suite 1800
Orange, California 92868

Attn: Laura Holder

Authorized for release by:
5/1/2020 5:07:06 PM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

Table of Contents

Definitions/Glossary

Client: EEC Environmental
Job ID: 570-25647-2
Project/Site: City of Huntington Beach / S-3506.02T

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25647-2

Job ID: 570-25647-2

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-25647-2

Comments
No additional comments.

Receipt
The samples were received on 4/13/2020 2:07 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.1° C.

HPLC/IC

Sample B7-0.5 could not be completed for EPA 7199 due to lack of sample volume.
No additional analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method 8151A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-65548 and 570-65548 and analytical batch 570-66030 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

Method 8151A: The continuing calibration verification (CCV) associated with 570-66030 recovered high and outside the control limits for Dalapon on one column. Results are confirmed on both columns and reported from the passing column.

Method 8151A: The laboratory control sample and/or the laboratory control sample duplicate (LCS/LCSD) for preparation batch 570-65548 and analytical batch 570-66030 recovered outside control limits for the following analyte(s): Dinoseb. Dinoseb has been identified as a poor performing analyte when analyzed using this method; therefore, re-extraction/re-analysis was not performed. Batch precision also exceeded control limits for these analyte(s). These results have been reported and qualified.

Method 8151A: The matrix spike/matrix spike duplicate (MS/MSD) for preparation batch 570-65548 and 570-65548 and analytical batch 570-66030 exceeded control limits for the following analyte(s): Dinoseb, Note that this analyte is a known poor performer when analyzed using this method.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method 7471A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-65833 and analytical batch 570-66013 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method 7471A: Elevated reporting limits are provided for the following sample due to insufficient sample provided for preparation:B7-0.5 (570-25647-1).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method 8151A: The following sample was unable to be prepared and/or analyzed due to broken glassware : (570-25647-A-1 MS).

Method 8151A: The following sample was re-prepared outside of preparation holding time due to broken glassware: (570-25647-A-1 MS).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25647-2

Client Sample ID: B7-3.0

Lab Sample ID: 570-25647-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	380	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B8-0.5

Lab Sample ID: 570-25647-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	480		400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B8-3.0

Lab Sample ID: 570-25647-4

No Detections.

Client Sample ID: B9-0.5

Lab Sample ID: 570-25647-5

No Detections.

Client Sample ID: B9-3.0

Lab Sample ID: 570-25647-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	360	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B10-0.5

Lab Sample ID: 570-25647-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	430		400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B10-3.0

Lab Sample ID: 570-25647-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	310	J	400	200	ug/Kg	10		7199	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 7199 - Chromium, Hexavalent (IC)

Client Sample ID: B7-3.0
Date Collected: 04/13/20 12:43
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-2
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	380	J	400	200	ug/Kg		04/29/20 13:42	04/30/20 11:59	10

Client Sample ID: B8-0.5
Date Collected: 04/13/20 11:58
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-3
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	480		400	200	ug/Kg		04/29/20 13:42	04/30/20 12:08	10

Client Sample ID: B8-3.0
Date Collected: 04/13/20 12:13
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-4
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	200	ug/Kg		04/29/20 13:42	04/30/20 12:35	10

Client Sample ID: B9-0.5
Date Collected: 04/13/20 11:33
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-5
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	200	ug/Kg		04/29/20 13:42	04/30/20 12:44	10

Client Sample ID: B9-3.0
Date Collected: 04/13/20 11:43
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-6
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	360	J	400	200	ug/Kg		04/29/20 13:42	04/30/20 12:53	10

Client Sample ID: B10-0.5
Date Collected: 04/13/20 13:00
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	430		400	200	ug/Kg		04/29/20 13:42	04/30/20 13:02	10

Client Sample ID: B10-3.0
Date Collected: 04/13/20 13:20
Date Received: 04/13/20 14:07
Lab Sample ID: 570-25647-8
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	310	J	400	200	ug/Kg		04/29/20 13:42	04/30/20 13:11	10

Surrogate Summary

Client: EEC Environmental
Job ID: 570-25647-2
Project/Site: City of Huntington Beach / S-3506.02T

Method: 8151A - Herbicides (GC)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)
		DCPAA1
Lab Sample ID	**Client Sample ID**	**(19-143)**
570-25647-1	B7-0.5	91
570-25647-1 MS	B7-0.5	36
570-25647-1 MSD	B7-0.5	54
570-25647-2	B7-3.0	116
570-25647-5	B9-0.5	94
570-25647-6	B9-3.0	99
570-25647-7	B10-0.5	92
570-25647-8	B10-3.0	81
LCS 570-65548/2-A	Lab Control Sample	83
LCSD 570-65548/3-A	Lab Control Sample Dup	94
MB 570-65548/1-A	Method Blank	93

Surrogate Legend

DCPAA = 2,4-Dichlorophenylacetic acid

Method: 8151A - Herbicides (GC)

Lab Sample ID: MB 570-65548/1-A
Matrix: Solid
Analysis Batch: 66030

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 65548

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4,5-T	ND		10		ug/Kg		04/27/20 15:41	04/29/20 15:37	1
2,4,5-TP (Silvex)	ND		10		ug/Kg		04/27/20 15:41	04/29/20 15:37	1
2,4-D	ND		100		ug/Kg		04/27/20 15:41	04/29/20 15:37	1
2,4-DB	ND		100		ug/Kg		04/27/20 15:41	04/29/20 15:37	1
Dalapon	ND		250		ug/Kg		04/27/20 15:41	04/29/20 15:37	1
Dicamba	ND		10		ug/Kg		04/27/20 15:41	04/29/20 15:37	1
Dichlorprop	ND		100		ug/Kg		04/27/20 15:41	04/29/20 15:37	1
Dinoseb	ND		100		ug/Kg		04/27/20 15:41	04/29/20 15:37	1
MCPA	ND		20000		ug/Kg		04/27/20 15:41	04/29/20 15:37	1
MCPP	ND		10000		ug/Kg		04/27/20 15:41	04/29/20 15:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
2,4-Dichlorophenylacetic acid	*93*		*19 - 143*	*04/27/20 15:41*	*04/29/20 15:37*	*1*

Lab Sample ID: LCS 570-65548/2-A
Matrix: Solid
Analysis Batch: 66030

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65548

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	40.0	31.60		ug/Kg		79	26 - 135
2,4,5-TP (Silvex)	40.0	40.35		ug/Kg		101	42 - 145
2,4-D	400	387.0		ug/Kg		97	10 - 173
2,4-DB	400	338.7		ug/Kg		85	10 - 140
Dalapon	1000	972.1		ug/Kg		97	10 - 141
Dicamba	40.0	38.44		ug/Kg		96	10 - 150
Dichlorprop	400	355.5		ug/Kg		89	17 - 143
Dinoseb	200	ND	*	ug/Kg		0	10 - 78
MCPA	40000	37070		ug/Kg		93	10 - 157
MCPP	40000	33950		ug/Kg		85	16 - 158

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
2,4-Dichlorophenylacetic acid	*83*		*19 - 143*

Lab Sample ID: LCSD 570-65548/3-A
Matrix: Solid
Analysis Batch: 66030

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65548

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	40.0	32.64		ug/Kg		82	26 - 135	3	45
2,4,5-TP (Silvex)	40.0	39.05		ug/Kg		98	42 - 145	3	52
2,4-D	400	363.5		ug/Kg		91	10 - 173	6	80
2,4-DB	400	522.5		ug/Kg		131	10 - 140	43	60
Dalapon	1000	689.8		ug/Kg		69	10 - 141	34	80
Dicamba	40.0	37.21		ug/Kg		93	10 - 150	3	52
Dichlorprop	400	353.3		ug/Kg		88	17 - 143	1	45
Dinoseb	200	ND	**1	ug/Kg		7	10 - 78	200	80
MCPA	40000	33810		ug/Kg		85	10 - 157	9	37
MCPP	40000	34060		ug/Kg		85	16 - 158	0	45

Method: 8151A - Herbicides (GC) (Continued)

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	*94*		*19 - 143*

Lab Sample ID: 570-25647-1 MS — **Client Sample ID: B7-0.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 66030 — **Prep Batch: 65548**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
2,4,5-T	ND		40.0	24.61		ug/Kg		62	26 - 135
2,4,5-TP (Silvex)	ND		40.0	27.66		ug/Kg		69	42 - 145
2,4-D	ND		400	278.4		ug/Kg		70	10 - 173
2,4-DB	ND		400	ND		ug/Kg		19	10 - 140
Dalapon	ND		1000	802.9		ug/Kg		80	10 - 141
Dicamba	ND		40.0	30.87		ug/Kg		77	10 - 150
Dichlorprop	ND		400	273.8		ug/Kg		68	17 - 143
Dinoseb	ND	* *1 F1	200	ND	F1	ug/Kg		0	10 - 78
MCPA	ND	F2	40000	22310		ug/Kg		56	10 - 157
MCPP	ND		40000	27830		ug/Kg		70	16 - 158

Surrogate	MS %Recovery	MS Qualifier	Limits
2,4-Dichlorophenylacetic acid	*36*		*19 - 143*

Lab Sample ID: 570-25647-1 MSD — **Client Sample ID: B7-0.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 66030 — **Prep Batch: 65548**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,4,5-T	ND		39.8	35.14		ug/Kg		88	26 - 135	35	45
2,4,5-TP (Silvex)	ND		39.8	35.70		ug/Kg		90	42 - 145	25	52
2,4-D	ND		398	362.2		ug/Kg		91	10 - 173	26	80
2,4-DB	ND		398	231.0	F2	ug/Kg		58	10 - 140	100	60
Dalapon	ND		996	912.8		ug/Kg		92	10 - 141	13	80
Dicamba	ND		39.8	35.82		ug/Kg		90	10 - 150	15	52
Dichlorprop	ND		398	342.7		ug/Kg		86	17 - 143	22	45
Dinoseb	ND	* *1 F1	199	ND	F1	ug/Kg		0	10 - 78	NC	80
MCPA	ND	F2	39800	33710	F2	ug/Kg		85	10 - 157	41	37
MCPP	ND		39800	45060	F2	ug/Kg		113	16 - 158	47	45

Surrogate	MSD %Recovery	MSD Qualifier	Limits
2,4-Dichlorophenylacetic acid	*54*		*19 - 143*

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-65833/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 66013 — **Prep Batch: 65833**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0820		mg/Kg		04/28/20 18:00	04/29/20 11:49	1

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 570-65833/2-A
Matrix: Solid
Analysis Batch: 66013

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 65833

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.833	0.7757		mg/Kg		93	85 - 121

Lab Sample ID: LCSD 570-65833/3-A
Matrix: Solid
Analysis Batch: 66013

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 65833

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.862	0.8314		mg/Kg		96	85 - 121	7	10

Lab Sample ID: 570-26708-A-1-H MS
Matrix: Solid
Analysis Batch: 66013

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 65833

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.477	F2 F1	0.862	0.7667	F1	mg/Kg		34	71 - 137

Lab Sample ID: 570-26708-A-1-I MSD
Matrix: Solid
Analysis Batch: 66013

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 65833

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.477	F2 F1	0.820	0.6166	F2 F1	mg/Kg		17	71 - 137	22	14

QC Association Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25647-2

HPLC/IC

Prep Batch: 65736

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25647-2	B7-3.0	Total/NA	Solid	3060A	
570-25647-3	B8-0.5	Total/NA	Solid	3060A	
570-25647-4	B8-3.0	Total/NA	Solid	3060A	
570-25647-5	B9-0.5	Total/NA	Solid	3060A	
570-25647-6	B9-3.0	Total/NA	Solid	3060A	
570-25647-7	B10-0.5	Total/NA	Solid	3060A	
570-25647-8	B10-3.0	Total/NA	Solid	3060A	

Analysis Batch: 66165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25647-2	B7-3.0	Total/NA	Solid	7199	65736
570-25647-3	B8-0.5	Total/NA	Solid	7199	65736
570-25647-4	B8-3.0	Total/NA	Solid	7199	65736
570-25647-5	B9-0.5	Total/NA	Solid	7199	65736
570-25647-6	B9-3.0	Total/NA	Solid	7199	65736
570-25647-7	B10-0.5	Total/NA	Solid	7199	65736
570-25647-8	B10-3.0	Total/NA	Solid	7199	65736

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25647-2

Client Sample ID: B7-3.0
Date Collected: 04/13/20 12:43
Date Received: 04/13/20 14:07

Lab Sample ID: 570-25647-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	65736	04/29/20 13:42	M5Z3	ECL 1
Total/NA	Analysis	7199		10			66165	04/30/20 11:59	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B8-0.5
Date Collected: 04/13/20 11:58
Date Received: 04/13/20 14:07

Lab Sample ID: 570-25647-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	65736	04/29/20 13:42	M5Z3	ECL 1
Total/NA	Analysis	7199		10			66165	04/30/20 12:08	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B8-3.0
Date Collected: 04/13/20 12:13
Date Received: 04/13/20 14:07

Lab Sample ID: 570-25647-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	65736	04/29/20 13:42	M5Z3	ECL 1
Total/NA	Analysis	7199		10			66165	04/30/20 12:35	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B9-0.5
Date Collected: 04/13/20 11:33
Date Received: 04/13/20 14:07

Lab Sample ID: 570-25647-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	65736	04/29/20 13:42	M5Z3	ECL 1
Total/NA	Analysis	7199		10			66165	04/30/20 12:44	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B9-3.0
Date Collected: 04/13/20 11:43
Date Received: 04/13/20 14:07

Lab Sample ID: 570-25647-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	65736	04/29/20 13:42	M5Z3	ECL 1
Total/NA	Analysis	7199		10			66165	04/30/20 12:53	URMH	ECL 1
	Instrument ID: IC11									

Lab Chronicle

Client: EEC Environmental
Job ID: 570-25647-2
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B10-0.5
Lab Sample ID: 570-25647-7
Date Collected: 04/13/20 13:00
Matrix: Solid
Date Received: 04/13/20 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	65736	04/29/20 13:42	M5Z3	ECL 1
Total/NA	Analysis	7199		10			66165	04/30/20 13:02	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B10-3.0
Lab Sample ID: 570-25647-8
Date Collected: 04/13/20 13:20
Matrix: Solid
Date Received: 04/13/20 14:07

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	65736	04/29/20 13:42	M5Z3	ECL 1
Total/NA	Analysis	7199		10			66165	04/30/20 13:11	URMH	ECL 1
	Instrument ID: IC11									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: EEC Environmental
Job ID: 570-25647-2
Project/Site: City of Huntington Beach / S-3506.02T

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25647-2

Method	Method Description	Protocol	Laboratory
7199	Chromium, Hexavalent (IC)	SW846	ECL 1
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: EEC Environmental
Job ID: 570-25647-2
Project/Site: City of Huntington Beach / S-3506.02T

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-25647-2	B7-3.0	Solid	04/13/20 12:43	04/13/20 14:07	
570-25647-3	B8-0.5	Solid	04/13/20 11:58	04/13/20 14:07	
570-25647-4	B8-3.0	Solid	04/13/20 12:13	04/13/20 14:07	
570-25647-5	B9-0.5	Solid	04/13/20 11:33	04/13/20 14:07	
570-25647-6	B9-3.0	Solid	04/13/20 11:43	04/13/20 14:07	
570-25647-7	B10-0.5	Solid	04/13/20 13:00	04/13/20 14:07	
570-25647-8	B10-3.0	Solid	04/13/20 13:20	04/13/20 14:07	

Stephen Nowak

From: Laura Holder <lholder@eecenvironmental.com>
Sent: Monday, April 27, 2020 4:48 PM
To: Stephen Nowak
Subject: Additional Analysis Requested

EXTERNAL EMAIL*

Hi Steve,

We would like to perform the following additional analysis on samples that you have from job number J25057-1 and J25647-1:

B4-0.5, B4-3.0, B6-0.5, B6-3.0, B7-0.5, B7-3.0, B8-0.5, B8-3.0, B9-0.5, B9-3.0, B10-0.5, and B10-3.0 for Title 22 Metals EPA 6010B/7471A and Hex Chrome EPA 3060A/7199.

Please let me know if you have any questions.

Thanks!!

Laura Holder
Project Manager
EEC Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Wednesday, April 22, 2020 1:16 PM
To: Laura Holder
Subject: RE: Huntington Beach 17631 Cameron Lane analysis questions

Laura-

1. Would it be possible to have all 50 samples re-run for herbicides and Title 22 Metals? EPA 8151 for herbicides and EPA 6010B/7471A for Title 22 metals- yes. Holding time for EPA 8151 is 14 days. Sample collected prior to or on 04/08/20 are already past holding time.

2. Would it be possible to re-run some of the samples for hex chrome?
   Yes – EPA 3060A/7196A or EPA 3060A/7199?

3. What would be the cost for these analyses on a 5-day TAT and a 48-hour TAT?
   EPA 8151 - $200 on 10 day TAT.
   EPA 6010B/7471A for Title 22 metals - $80
   EPA 3060A/7196A- $60
   EPA 3060A/7199 - $80

We can't rush any of this at this time- these methods (8151 and Hex Cr) take additional time in preparation. Quickest TAT is 10 working days.

Stephen Nowak

Stephen Nowak

From: Laura Holder <lholder@eecenvironmental.com>
Sent: Monday, April 27, 2020 2:16 PM
To: Stephen Nowak
Cc: David Bernier
Subject: RE: Huntington Beach 17631 Cameron Lane analysis questions

EXTERNAL EMAIL*

Hi Steve,

We would like to run samples B7-05, B7-3.0, B9-0.5, B9-3.0, B10-0.5, and B10-3.0 (from J25647-1) for herbicides. Thank you for all of your help!!

Sincerely,

Laura Holder
Project Manager
EEC Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Monday, April 27, 2020 1:32 PM
To: Laura Holder
Subject: RE: Huntington Beach 17631 Cameron Lane analysis questions

OK-
I would need to know ASAP- to see if the lab can in fact start 25623/25647 today if needed.

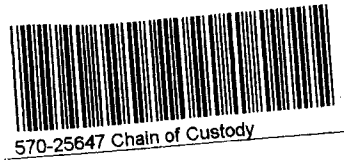
25623 – holding time 14 days to extraction- has to be extracted today
25647 – holding time 14 days to extraction -has to be extracted today
25950 –holding time 14 days to extraction – has to be extracted by Thursday 4/30

Stephen Nowak
Project Manager

eurofins | Calscience

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.EurofinsUS.com/Calscience



CHAIN OF CUSTODY RECORD

eurofins | Calscience
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

DATE: 4/13/2020
PAGE: 1 OF 2

1242
5/1/2020 (Rev. 1)

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T 17631
ADDRESS: One City Blvd. West #1800	P.O. NO.:
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Allison Burnap
TEL: (714) 667-2300 FAX: (714) 667-2310 E-MAIL:	LAB CONTACT OR QUOTE NO.
	SAMPLER(S): (SIGNATURE) Allison Burnap
	LAB USE ONLY

TURNAROUND TIME:
☐ SAME DAY ■ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	OCPs EPA 8081A	Lead EPA 6010B
1	B7-0.5	Northwest corner	4/13/20	1225	SO	1		X	X
2	B7-3.0	Northwest corner	4/13/20	1243	SO	1		X	X
3	B8-0.5	Southwest corner	4/13/20	1158	SO	1		X	X
4	B8-3.0	Southwest corner	4/13/20	1213	SO	1		X	X
5	B9-0.5	Northeast corner	4/13/20	1133	SO	1		X	X
6	B9-3.0	Northeast corner	4/13/20	1143	SO	1		X	X
7	B10-0.5	N Step out B6	4/13/20	1300	SO	1		X	X
8	B10-3.0	N Step out B6	4/13/20	1320	SO	1		X	X
	~~B11-0.5~~	E Step out B6			SO	1		X	X
	B11-3.0	E Step out B6			SO	1		X	X
	B12-0.5	S Step out B6			SO	1		X	X
	B12-3.0	S Step out B6			SO	1		X	X

4/13/20

Relinquished by: (Signature)	Received by: (Signature) ECI	Date: 4-13-2020	Time: 14:07
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

3.0/2.1 SCG

Stephen Nowak

From: Laura Holder <lholder@eecenvironmental.com>
Sent: Tuesday, April 28, 2020 5:06 PM
To: Stephen Nowak
Cc: David Bernier
Subject: RE: Question about timing
Attachments: 25057 add on.pdf; 25647 Client add on.pdf; COC 570-26822 (202004281427).pdf

EXTERNAL EMAIL*

Hi Steve,

Yes, please change them – that will be awesome. It would be for both of the attached requests I made to you yesterday (though I'm sure you already know this).

Can you also please change the TAT for the samples we just collected today (job 570-26822- attached) to 72-hr TAT?

Thanks so much!!

Laura Holder
Project Manager
EEC Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Tuesday, April 28, 2020 4:22 PM
To: Laura Holder
Subject: RE: Question about timing

Laura- I can change them to 72hr TAT- results due Friday.

Cost per sample-
T22 Metals - $100
Hex Cr - $93.75
8151- $300

Let me know if you would like me to change-

Stephen Nowak
Project Manager

eurofins | Calscience

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Login Sample Receipt Checklist

Client: EEC Environmental

Job Number: 570-25647-2

Login Number: 25647

List Number: 1

Creator: Andujo, Italy

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-25950-2
Client Project/Site: City of Huntington Beach / S-3506.02T

For:
EEC Environmental
One City Blvd
Suite 1800
Orange, California 92868

Attn: Laura Holder

Authorized for release by:
5/4/2020 10:33:32 AM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

Table of Contents

Definitions/Glossary

Client: EEC Environmental
Job ID: 570-25950-2
Project/Site: City of Huntington Beach / S-3506.02T

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-25950-2

Job ID: 570-25950-2

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-25950-2

Comments
No additional comments.

Receipt
The samples were received on 4/16/2020 2:38 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

HPLC/IC
Method 7199: The following samples were diluted due to the nature of the sample matrix: B31-0.5 (570-25950-11) and B31-3.0 (570-25950-12). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: EEC Environmental
Job ID: 570-25950-2
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B31-0.5
Lab Sample ID: 570-25950-11

No Detections.

Client Sample ID: B31-3.0
Lab Sample ID: 570-25950-12

No Detections.

This Detection Summary does not include radiochemical test results.

Method: 7199 - Chromium, Hexavalent (IC)

Client Sample ID: B31-0.5
Lab Sample ID: 570-25950-11
Date Collected: 04/16/20 10:30
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		800	400	ug/Kg		04/30/20 14:23	05/01/20 17:26	20

Client Sample ID: B31-3.0
Lab Sample ID: 570-25950-12
Date Collected: 04/16/20 11:00
Matrix: Solid
Date Received: 04/16/20 14:38

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		1600	800	ug/Kg		04/30/20 14:23	05/01/20 17:35	40

Method: 7199 - Chromium, Hexavalent (IC)

Lab Sample ID: MB 570-66301/1-A
Matrix: Solid
Analysis Batch: 66450

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 66301

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	200	ug/Kg		04/30/20 14:23	05/01/20 15:31	10

Lab Sample ID: LCS 570-66301/2-A
Matrix: Solid
Analysis Batch: 66450

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 66301

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	20000	22360		ug/Kg		112	80 - 120

Lab Sample ID: LCSD 570-66301/3-A
Matrix: Solid
Analysis Batch: 66450

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 66301

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	20000	23260		ug/Kg		116	80 - 120	4	20

Lab Sample ID: 570-26367-A-3-A MS
Matrix: Solid
Analysis Batch: 66450

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 66301

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND		20000	22930		ug/Kg		115	75 - 125

Lab Sample ID: 570-26367-A-3-B MSD
Matrix: Solid
Analysis Batch: 66450

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 66301

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	ND		20000	22490		ug/Kg		112	75 - 125	2	25

Lab Sample ID: 570-26367-A-3-C MSI
Matrix: Solid
Analysis Batch: 66450

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 66301

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND		980000	1121000		ug/Kg		114	75 - 125

Lab Sample ID: 570-26367-A-3-D MSID
Matrix: Solid
Analysis Batch: 66450

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 66301

Analyte	Sample Result	Sample Qualifier	Spike Added	MSID Result	MSID Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	ND		980000	927200		ug/Kg		95	75 - 125	19	25

QC Association Summary

Client: EEC Environmental
Job ID: 570-25950-2
Project/Site: City of Huntington Beach / S-3506.02T

HPLC/IC

Prep Batch: 66301

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25950-11	B31-0.5	Total/NA	Solid	3060A	
570-25950-12	B31-3.0	Total/NA	Solid	3060A	
MB 570-66301/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 570-66301/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSD 570-66301/3-A	Lab Control Sample Dup	Total/NA	Solid	3060A	
570-26367-A-3-A MS	Matrix Spike	Total/NA	Solid	3060A	
570-26367-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3060A	
570-26367-A-3-C MSI	Matrix Spike	Total/NA	Solid	3060A	
570-26367-A-3-D MSID	Matrix Spike Duplicate	Total/NA	Solid	3060A	

Analysis Batch: 66450

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-25950-11	B31-0.5	Total/NA	Solid	7199	66301
570-25950-12	B31-3.0	Total/NA	Solid	7199	66301
MB 570-66301/1-A	Method Blank	Total/NA	Solid	7199	66301
LCS 570-66301/2-A	Lab Control Sample	Total/NA	Solid	7199	66301
LCSD 570-66301/3-A	Lab Control Sample Dup	Total/NA	Solid	7199	66301
570-26367-A-3-A MS	Matrix Spike	Total/NA	Solid	7199	66301
570-26367-A-3-B MSD	Matrix Spike Duplicate	Total/NA	Solid	7199	66301
570-26367-A-3-C MSI	Matrix Spike	Total/NA	Solid	7199	66301
570-26367-A-3-D MSID	Matrix Spike Duplicate	Total/NA	Solid	7199	66301

Lab Chronicle

Client: EEC Environmental
Job ID: 570-25950-2
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B31-0.5
Lab Sample ID: 570-25950-11
Date Collected: 04/16/20 10:30
Matrix: Solid
Date Received: 04/16/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	66301	04/30/20 14:23	M5Z3	ECL 1
Total/NA	Analysis	7199		20			66450	05/01/20 17:26	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B31-3.0
Lab Sample ID: 570-25950-12
Date Collected: 04/16/20 11:00
Matrix: Solid
Date Received: 04/16/20 14:38

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	66301	04/30/20 14:23	M5Z3	ECL 1
Total/NA	Analysis	7199		40			66450	05/01/20 17:35	URMH	ECL 1
	Instrument ID: IC11									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: EEC Environmental
Job ID: 570-25950-2
Project/Site: City of Huntington Beach / S-3506.02T

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: EEC Environmental
Job ID: 570-25950-2
Project/Site: City of Huntington Beach / S-3506.02T

Method	Method Description	Protocol	Laboratory
7199	Chromium, Hexavalent (IC)	SW846	ECL 1
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: EEC Environmental
Job ID: 570-25950-2
Project/Site: City of Huntington Beach / S-3506.02T

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-25950-11	B31-0.5	Solid	04/16/20 10:30	04/16/20 14:38	
570-25950-12	B31-3.0	Solid	04/16/20 11:00	04/16/20 14:38	

Stephen Nowak

From: Laura Holder <lholder@eecenvironmental.com>
Sent: Wednesday, April 29, 2020 1:27 PM
To: Stephen Nowak
Subject: RE: Question about timing

EXTERNAL EMAIL*

Hi Steve,

Can you please have sample B31-0.5 and B31-3.0 from job number J25950 sampled for hex chrome instead, also on the rush 72-hr TAT?

Thanks!!

Laura Holder
Project Manager
EEC Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

From: Stephen Nowak [mailto:StephenNowak@eurofinsUS.com]
Sent: Wednesday, April 29, 2020 12:46 PM
To: Laura Holder
Subject: RE: Question about timing

Laura-
Have to let you know-
We ran out of soil for sample B7-0.5, we are not going to be able to complete EPA 7199 Hex Cr.

Stephen Nowak
Project Manager

eurofins | Calscience

Eurofins Calscience, LLC
7440 Lincoln Way
GARDEN GROVE, CA 92841
USA
Phone: +1 714 895 5494

Email: StephenNowak@EurofinsUS.com
Website: www.EurofinsUS.com/Calscience

Links to use:

25950

eurofins | Calscience

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

570-25950 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: April 16, 2020
PAGE: 1 OF 2

LABORATORY CLIENT: EEC Environmental
ADDRESS: One City Blvd. West #1800
CITY: Orange STATE: CA ZIP: 92868
TEL: (714) 667-2300 FAX: (714) 667-2310 E-MAIL:

CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
P.O. NO.:
PROJECT CONTACT: Laura Holder/Kaelin Andelin
LAB CONTACT OR QUOTE NO.: Steve Nowak
SAMPLER(S): (SIGNATURE) Kaelin Andelin
LAB USE ONLY

TURNAROUND TIME:
☐ SAME DAY ■ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	OCPs EPA 8081A
1	B26-0.5	Step out B11-North	4/16	1220	SO	1		X
2	B26-3.0	Step out B11-North		1240	SO	1		X
3	B27-0.5	Step out B11-East		1255	SO	1		X
4	B27-3.0	Step out B11-East		1315	SO	1		X
5	B28-0.5	Step out B11-South		1325	SO	1		X
6	B28-3.0	Step out B11-South		1340	SO	1		X
7	B29-0.5	Step out B7-North		0850	SO	1		X
8	B29-3.0	Step out B7-North		0915	SO	1		X
9	B30-0.5	Step out B7-East		0940	SO	1		X
10	B30-3.0	Step out B7-East		1015	SO	1		X
11	B31-0.5	Step out B7-South		1030	SO	1		X
12	B31-3.0	Step out B7-South	↓	1100	SO	1		X

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature)	Date: 4/16/20	Time: 1438
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

3.6/2.7 SG

06/01/10 Revision

25950

eurofins | Calscience

7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: April 16, 2020
PAGE: 2 OF 2

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
ADDRESS: One City Blvd. West #1800	P.O. NO.:
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Kaelin Andelin
TEL: (714) 667-2300 FAX: (714) 667-2310 E-MAIL:	LAB CONTACT OR QUOTE NO.: Steve Nowak
	SAMPLER(S): (SIGNATURE) Kaelin Andelin
	LAB USE ONLY: ☐☐-☐☐☐☐

TURNAROUND TIME:
☐ SAME DAY ■ 24 HR ☐ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	OCPs EPA 8081A
13	B32-0.5	Step out B7-West	4/16	1110	SO	1		X
14	B32-3.0	Step out B7-West	↓	1130	SO	1		X

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature)	Date: 4/16/20	Time: 1438
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

1259 5/4/2020

Login Sample Receipt Checklist

Client: EEC Environmental

Job Number: 570-25950-2

Login Number: 25950
List Number: 1
Creator: Ramos, Maribel

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-27951-1
Client Project/Site: City of Huntington Beach / S-3506.02T

For:
EEC Environmental
One City Blvd
Suite 1800
Orange, California 92868

Attn: Laura Holder

Authorized for release by:
5/13/2020 4:04:18 PM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

Table of Contents

Definitions/Glossary

Client: EEC Environmental
Job ID: 570-27951-1
Project/Site: City of Huntington Beach / S-3506.02T

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-1

Job ID: 570-27951-1

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-27951-1

Receipt
The samples were received on 5/11/2020 5:05 PM; the samples arrived in good condition, properly preserved, and where required, on ice. The temperature of the cooler at receipt time was 4.4°C

Department HPLC/IC
Method 7199_ORGFM: The following samples were diluted due to the nature of the sample matrix: B7-A-4.0 (570-27951-21), B8-A-4.0 (570-27951-26) and B9-A-4.0 (570-27951-31). Elevated reporting limits (RLs) are provide

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: EEC Environmental
Job ID: 570-27951-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B1-A-4.0
Lab Sample ID: 570-27951-1

No Detections.

Client Sample ID: B4-B-4.0
Lab Sample ID: 570-27951-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	350	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B5-A-4.0
Lab Sample ID: 570-27951-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	300	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B6-B-4.0
Lab Sample ID: 570-27951-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	570		400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B7-A-4.0
Lab Sample ID: 570-27951-21

No Detections.

Client Sample ID: B8-A-4.0
Lab Sample ID: 570-27951-26

No Detections.

Client Sample ID: B9-A-4.0
Lab Sample ID: 570-27951-31

No Detections.

Client Sample ID: B10-A-4.0
Lab Sample ID: 570-27951-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	270	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: GW-1
Lab Sample ID: 570-27951-41

No Detections.

Client Sample ID: GW-2
Lab Sample ID: 570-27951-42

No Detections.

Client Sample ID: GW-3
Lab Sample ID: 570-27951-43

No Detections.

Client Sample ID: WS-1
Lab Sample ID: 570-27951-44

No Detections.

Client Sample ID: WS-2
Lab Sample ID: 570-27951-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Hexavalent chromium	0.086	J	0.20	0.038	ug/L	1		218.6	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 218.6 - Chromium, Hexavalent (Ion Chromatography)

Client Sample ID: GW-1
Lab Sample ID: 570-27951-41
Date Collected: 05/11/20 09:45
Matrix: Water
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.20	0.038	ug/L			05/11/20 20:36	1

Client Sample ID: GW-2
Lab Sample ID: 570-27951-42
Date Collected: 05/11/20 12:15
Matrix: Water
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.20	0.038	ug/L			05/11/20 20:45	1

Client Sample ID: GW-3
Lab Sample ID: 570-27951-43
Date Collected: 05/11/20 15:45
Matrix: Water
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.20	0.038	ug/L			05/11/20 20:54	1

Client Sample ID: WS-1
Lab Sample ID: 570-27951-44
Date Collected: 05/11/20 12:20
Matrix: Water
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.20	0.038	ug/L			05/11/20 21:03	1

Client Sample ID: WS-2
Lab Sample ID: 570-27951-45
Date Collected: 05/11/20 15:43
Matrix: Water
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	**0.086**	**J**	0.20	0.038	ug/L			05/11/20 21:12	1

Method: 7199 - Chromium, Hexavalent (IC)

Client Sample ID: B1-A-4.0
Lab Sample ID: 570-27951-1
Date Collected: 05/11/20 10:38
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	200	ug/Kg		05/12/20 16:37	05/13/20 11:40	10

Client Sample ID: B4-B-4.0
Lab Sample ID: 570-27951-6
Date Collected: 05/11/20 11:20
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**350**	**J**	400	200	ug/Kg		05/12/20 16:37	05/13/20 12:34	10

Client Sample ID: B5-A-4.0
Lab Sample ID: 570-27951-11
Date Collected: 05/11/20 13:15
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**300**	**J**	400	200	ug/Kg		05/12/20 16:37	05/13/20 12:43	10

Client Sample ID: B6-B-4.0
Lab Sample ID: 570-27951-16
Date Collected: 05/11/20 14:35
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**570**		400	200	ug/Kg		05/12/20 16:37	05/13/20 12:52	10

Client Sample ID: B7-A-4.0
Lab Sample ID: 570-27951-21
Date Collected: 05/11/20 14:15
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		2000	1000	ug/Kg		05/12/20 16:37	05/13/20 13:01	50

Client Sample ID: B8-A-4.0
Lab Sample ID: 570-27951-26
Date Collected: 05/11/20 08:30
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		1600	800	ug/Kg		05/12/20 16:37	05/13/20 13:10	40

Client Sample ID: B9-A-4.0
Lab Sample ID: 570-27951-31
Date Collected: 05/11/20 10:19
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		1600	800	ug/Kg		05/12/20 16:37	05/13/20 13:19	40

Client Sample ID: B10-A-4.0
Lab Sample ID: 570-27951-36
Date Collected: 05/11/20 13:40
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	**270**	**J**	400	200	ug/Kg		05/12/20 16:37	05/13/20 13:28	10

Method: 218.6 - Chromium, Hexavalent (Ion Chromatography)

Lab Sample ID: MB 570-68311/15
Matrix: Water
Analysis Batch: 68311

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Hexavalent chromium	ND		0.20	0.038	ug/L			05/11/20 17:25	1

Lab Sample ID: LCS 570-68311/16
Matrix: Water
Analysis Batch: 68311

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	50.1	49.14		ug/L		98	95 - 107

Lab Sample ID: LCSD 570-68311/17
Matrix: Water
Analysis Batch: 68311

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexavalent chromium	50.1	48.89		ug/L		98	95 - 107	1	20

Lab Sample ID: 570-27951-45 MS
Matrix: Water
Analysis Batch: 68311

Client Sample ID: WS-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Hexavalent chromium	0.086	J	50.1	48.64		ug/L		97	85 - 121

Lab Sample ID: 570-27951-45 MSD
Matrix: Water
Analysis Batch: 68311

Client Sample ID: WS-2
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Hexavalent chromium	0.086	J	50.1	47.40		ug/L		95	85 - 121	3	25

Method: 7199 - Chromium, Hexavalent (IC)

Lab Sample ID: MB 570-68608/1-A
Matrix: Solid
Analysis Batch: 68704

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68608

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	200	ug/Kg		05/12/20 16:36	05/13/20 10:37	10

Lab Sample ID: LCS 570-68608/2-A
Matrix: Solid
Analysis Batch: 68704

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68608

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	20000	20400		ug/Kg		102	80 - 120

Method: 7199 - Chromium, Hexavalent (IC) (Continued)

Lab Sample ID: LCSD 570-68608/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 68704
Prep Batch: 68608

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	20000	19600		ug/Kg		98	80 - 120	4	20

Lab Sample ID: 570-27951-1 MS
Client Sample ID: B1-A-4.0
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 68704
Prep Batch: 68608

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND		20000	19920		ug/Kg		100	75 - 125

Lab Sample ID: 570-27951-1 MSD
Client Sample ID: B1-A-4.0
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 68704
Prep Batch: 68608

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	ND		20000	20080		ug/Kg		100	75 - 125	1	25

Lab Sample ID: 570-27951-1 MSI
Client Sample ID: B1-A-4.0
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 68704
Prep Batch: 68608

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND		980000	901200		ug/Kg		92	75 - 125

Lab Sample ID: 570-27951-1 MSID
Client Sample ID: B1-A-4.0
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 68704
Prep Batch: 68608

Analyte	Sample Result	Sample Qualifier	Spike Added	MSID Result	MSID Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	ND		992000	969600		ug/Kg		98	75 - 125	7	25

QC Association Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-1

HPLC/IC

Analysis Batch: 68311

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27951-41	GW-1	Total/NA	Water	218.6	
570-27951-42	GW-2	Total/NA	Water	218.6	
570-27951-43	GW-3	Total/NA	Water	218.6	
570-27951-44	WS-1	Total/NA	Water	218.6	
570-27951-45	WS-2	Total/NA	Water	218.6	
MB 570-68311/15	Method Blank	Total/NA	Water	218.6	
LCS 570-68311/16	Lab Control Sample	Total/NA	Water	218.6	
LCSD 570-68311/17	Lab Control Sample Dup	Total/NA	Water	218.6	
570-27951-45 MS	WS-2	Total/NA	Water	218.6	
570-27951-45 MSD	WS-2	Total/NA	Water	218.6	

Prep Batch: 68608

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27951-1	B1-A-4.0	Total/NA	Solid	3060A	
570-27951-6	B4-B-4.0	Total/NA	Solid	3060A	
570-27951-11	B5-A-4.0	Total/NA	Solid	3060A	
570-27951-16	B6-B-4.0	Total/NA	Solid	3060A	
570-27951-21	B7-A-4.0	Total/NA	Solid	3060A	
570-27951-26	B8-A-4.0	Total/NA	Solid	3060A	
570-27951-31	B9-A-4.0	Total/NA	Solid	3060A	
570-27951-36	B10-A-4.0	Total/NA	Solid	3060A	
MB 570-68608/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 570-68608/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSD 570-68608/3-A	Lab Control Sample Dup	Total/NA	Solid	3060A	
570-27951-1 MS	B1-A-4.0	Total/NA	Solid	3060A	
570-27951-1 MSD	B1-A-4.0	Total/NA	Solid	3060A	
570-27951-1 MSI	B1-A-4.0	Total/NA	Solid	3060A	
570-27951-1 MSID	B1-A-4.0	Total/NA	Solid	3060A	

Analysis Batch: 68704

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27951-1	B1-A-4.0	Total/NA	Solid	7199	68608
570-27951-6	B4-B-4.0	Total/NA	Solid	7199	68608
570-27951-11	B5-A-4.0	Total/NA	Solid	7199	68608
570-27951-16	B6-B-4.0	Total/NA	Solid	7199	68608
570-27951-21	B7-A-4.0	Total/NA	Solid	7199	68608
570-27951-26	B8-A-4.0	Total/NA	Solid	7199	68608
570-27951-31	B9-A-4.0	Total/NA	Solid	7199	68608
570-27951-36	B10-A-4.0	Total/NA	Solid	7199	68608
MB 570-68608/1-A	Method Blank	Total/NA	Solid	7199	68608
LCS 570-68608/2-A	Lab Control Sample	Total/NA	Solid	7199	68608
LCSD 570-68608/3-A	Lab Control Sample Dup	Total/NA	Solid	7199	68608
570-27951-1 MS	B1-A-4.0	Total/NA	Solid	7199	68608
570-27951-1 MSD	B1-A-4.0	Total/NA	Solid	7199	68608
570-27951-1 MSI	B1-A-4.0	Total/NA	Solid	7199	68608
570-27951-1 MSID	B1-A-4.0	Total/NA	Solid	7199	68608

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-1

Client Sample ID: B1-A-4.0

Date Collected: 05/11/20 10:38
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68608	05/12/20 16:37	H2WS	ECL 1
Total/NA	Analysis	7199		10			68704	05/13/20 11:40	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: B4-B-4.0

Date Collected: 05/11/20 11:20
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-6

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68608	05/12/20 16:37	H2WS	ECL 1
Total/NA	Analysis	7199		10			68704	05/13/20 12:34	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: B5-A-4.0

Date Collected: 05/11/20 13:15
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-11

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68608	05/12/20 16:37	H2WS	ECL 1
Total/NA	Analysis	7199		10			68704	05/13/20 12:43	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: B6-B-4.0

Date Collected: 05/11/20 14:35
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-16

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68608	05/12/20 16:37	H2WS	ECL 1
Total/NA	Analysis	7199		10			68704	05/13/20 12:52	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: B7-A-4.0

Date Collected: 05/11/20 14:15
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-21

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68608	05/12/20 16:37	H2WS	ECL 1
Total/NA	Analysis	7199		50			68704	05/13/20 13:01	P6WT	ECL 1
	Instrument ID: IC11									

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-1

Client Sample ID: B8-A-4.0
Date Collected: 05/11/20 08:30
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-26
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68608	05/12/20 16:37	H2WS	ECL 1
Total/NA	Analysis	7199		40			68704	05/13/20 13:10	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: B9-A-4.0
Date Collected: 05/11/20 10:19
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68608	05/12/20 16:37	H2WS	ECL 1
Total/NA	Analysis	7199		40			68704	05/13/20 13:19	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: B10-A-4.0
Date Collected: 05/11/20 13:40
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-36
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68608	05/12/20 16:37	H2WS	ECL 1
Total/NA	Analysis	7199		10			68704	05/13/20 13:28	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: GW-1
Date Collected: 05/11/20 09:45
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-41
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	218.6		1			68311	05/11/20 20:36	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: GW-2
Date Collected: 05/11/20 12:15
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-42
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	218.6		1			68311	05/11/20 20:45	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: GW-3
Date Collected: 05/11/20 15:45
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-43
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	218.6		1			68311	05/11/20 20:54	P6WT	ECL 1
	Instrument ID: IC11									

Lab Chronicle

Client: EEC Environmental
Job ID: 570-27951-1
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: WS-1
Lab Sample ID: 570-27951-44
Date Collected: 05/11/20 12:20
Matrix: Water
Date Received: 05/11/20 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	218.6		1			68311	05/11/20 21:03	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: WS-2
Lab Sample ID: 570-27951-45
Date Collected: 05/11/20 15:43
Matrix: Water
Date Received: 05/11/20 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	218.6		1			68311	05/11/20 21:12	P6WT	ECL 1
	Instrument ID: IC11									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: EEC Environmental
Job ID: 570-27951-1
Project/Site: City of Huntington Beach / S-3506.02T

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: EEC Environmental
Job ID: 570-27951-1
Project/Site: City of Huntington Beach / S-3506.02T

Method	Method Description	Protocol	Laboratory
218.6	Chromium, Hexavalent (Ion Chromatography)	EPA	ECL 1
7199	Chromium, Hexavalent (IC)	SW846	ECL 1
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ECL 1

Protocol References:

EPA = US Environmental Protection Agency

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: EEC Environmental
Job ID: 570-27951-1
Project/Site: City of Huntington Beach / S-3506.02T

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-27951-1	B1-A-4.0	Solid	05/11/20 10:38	05/11/20 17:05	
570-27951-6	B4-B-4.0	Solid	05/11/20 11:20	05/11/20 17:05	
570-27951-11	B5-A-4.0	Solid	05/11/20 13:15	05/11/20 17:05	
570-27951-16	B6-B-4.0	Solid	05/11/20 14:35	05/11/20 17:05	
570-27951-21	B7-A-4.0	Solid	05/11/20 14:15	05/11/20 17:05	
570-27951-26	B8-A-4.0	Solid	05/11/20 08:30	05/11/20 17:05	
570-27951-31	B9-A-4.0	Solid	05/11/20 10:19	05/11/20 17:05	
570-27951-36	B10-A-4.0	Solid	05/11/20 13:40	05/11/20 17:05	
570-27951-41	GW-1	Water	05/11/20 09:45	05/11/20 17:05	
570-27951-42	GW-2	Water	05/11/20 12:15	05/11/20 17:05	
570-27951-43	GW-3	Water	05/11/20 15:45	05/11/20 17:05	
570-27951-44	WS-1	Water	05/11/20 12:20	05/11/20 17:05	
570-27951-45	WS-2	Water	05/11/20 15:43	05/11/20 17:05	

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

570-27951 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020

PAGE: 1 OF 4

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
ADDRESS: One City Blvd. West #1800	P.O. NO.: S-3506
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Kaelin Andelin
TEL: 949-274-0224 FAX: (714) 667-2310 E-MAIL:	LAB CONTACT OR QUOTE NO.: Steve Nowak
	SAMPLER(S): (SIGNATURE) Kaelin Andelin
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com; report results to MDLs/J-Flag

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD
1	B1-A-4.0	East Center	5/11	1038	SO	1		X	
2	B1-A-5.0	East Center		1040	SO	1			X
3	B1-A-6.0	East Center		1042	SO	1			X
4	B1-A-7.0	East Center		1045	SO	1			X
5	B1-A-8.0	East Center		1048	SO	1			X
6	B4-B-4.0	Southeast		1120	SO	1		X	
7	B4-B-5.0	Southeast		1122	SO	1			X
8	B4-B-6.0	Southeast		1125	SO	1			X
9	B4-B-7.0	Southeast		1127	SO	1			X
10	B4-B-8.0	Southeast		1130	SO	1			X
11	B5-A-4.0	South Center		1315	SO	1		X	
12	B5-A-5.0	South Center	↓	1317	SO	1			X

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature) Danny Le	Date: 5/11/20	Time: 17:05
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

4.8/4.4 SCL

06/01/10 Revision

1277 5/13/2020

27951

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020
PAGE: 2 OF 4

LABORATORY CLIENT: EEC Environmental		CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T	P.O. NO.: S-3506
ADDRESS: One City Blvd. West #1800		PROJECT CONTACT: Laura Holder/Kaelin Andelin	LAB CONTACT OR QUOTE NO.: Steve Nowak
CITY: Orange	STATE: CA ZIP: 92868	SAMPLER(S): (SIGNATURE) Kaelin Andelin	LAB USE ONLY ☐☐-☐☐☐☐
TEL: 949-274-0224	FAX: (714) 667-2310	E-MAIL:	

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

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REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD
13	B5-A-6.0	South Center	5/11	1320	SO	1			X
14	B5-A-7.0	South Center		1322	SO	1			X
15	B5-A-8.0	South Center		1325	SO	1			X
16	B6-B-4.0	West Center		1435	SO	1		X	
17	B6-B-5.0	West Center		1438	SO	1			X
18	B6-B-6.0	West Center		1441	SO	1			X
19	B6-B-7.0	West Center		1443	SO	1			X
20	B6-B-8.0	West Center		1446	SO	1			X
21	B7-A-4.0	Northwest Corner		1415	SO	1		X	
22	B7-A-5.0	Northwest Corner		1417	SO	1			X
23	B7-A-6.0	Northwest Corner		1420	SO	1			X
24	B7-A-7.0	Northwest Corner	↓	1422	SO	1			X

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature) Bannight EEC	Date: 5/11/20	Time: 17:05
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

1278 5/13/2020

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020
PAGE: 3 OF 4

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
ADDRESS: One City Blvd. West #1800	P.O. NO.: S-3506
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Kaelin Andelin
TEL: 949-274-0224 FAX: (714) 667-2310 E-MAIL:	LAB CONTACT OR QUOTE NO.: Steve Nowak
	SAMPLER(S): (SIGNATURE) Kaelin Andelin
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

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☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

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REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD
25	B7-A-8.0	Northwest Corner	5/11	1425	SO	1			X
26	B8-A-4.0	North Center		0830	SO	1		X	
27	B8-A-5.0	North Center		0832	SO	1			X
28	B8-A-6.0	North Center		0835	SO	1			X
29	B8-A-7.0	North Center		0837	SO	1			X
30	B8-A-8.0	North Center		0840	SO	1			X
31	B9-A-4.0	Northeast Corner		1019	SO	1		X	
32	B9-A-5.0	Northeast Corner		1021	SO	1			X
33	B9-A-6.0	Northeast Corner		1023	SO	1			X
34	B9-A-7.0	Northeast Corner		1025	SO	1			X
35	B9-A-8.0	Northeast Corner		1027	SO	1			X
36	B10-A-4.0	Southwest Corner	↓	1340	SO	1		X	

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature) Dannyle EEC	Date: 5/11/20	Time: 17:05
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

1279
5/13/2020

27951

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020
PAGE: 4 OF 4

LABORATORY CLIENT: EEC Environmental		CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T	P.O. NO.: S-3506
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CITY: Orange	STATE: CA ZIP: 92868	SAMPLER(S): (SIGNATURE) Kaelin Andelin	LAB USE ONLY
TEL: 949-274-0224	FAX: (714) 667-2310 E-MAIL:		

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

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REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD	Hexavalent Chromium USEPA 218.6
37	B10-A-5.0	Southwest Corner	5/11	1342	SO	1			X	
38	B10-A-6.0	Southwest Corner		1345	SO	1			X	
39	B10-A-7.0	Southwest Corner		1348	SO	1			X	
40	B10-A-8.0	Southwest Corner		1350	SO	1			X	
41	GW-1	North Center, B8-A		0945	Water	1				X
42	GW-2	Southeast, B4-B		1215	Water	1				X
43	GW-3	Southwest Corner, B10-A		1545	Water	1				X
44	WS-1	Duplicate, B4-B		1220	Water	1				X
45	WS-2	Equipment Blank	↓	1543	Water	1				X

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature) Dannyle EEC	Date: 5/11/20	Time: 1705
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

1280
5/13/2020

Login Sample Receipt Checklist

Client: EEC Environmental

Job Number: 570-27951-1

Login Number: 27951
List Number: 1
Creator: Le, Danny

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

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ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-27951-2
Client Project/Site: City of Huntington Beach / S-3506.02T

For:
EEC Environmental
One City Blvd
Suite 1800
Orange, California 92868

Attn: Laura Holder

Authorized for release by:
5/14/2020 4:48:17 PM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

Table of Contents

Definitions/Glossary

Client: EEC Environmental
Job ID: 570-27951-2
Project/Site: City of Huntington Beach / S-3506.02T

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-2

Job ID: 570-27951-2

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-27951-2

Comments
No additional comments.

Receipt
The samples were received on 5/11/2020 5:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

HPLC/IC
Method 7199: The following sample was diluted due to the nature of the sample matrix: B7-A-5.0 (570-27951-22). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-2

Client Sample ID: B4-B-5.0

Lab Sample ID: 570-27951-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	300	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B5-A-5.0

Lab Sample ID: 570-27951-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	540		400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B6-B-5.0

Lab Sample ID: 570-27951-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	430		400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B7-A-5.0

Lab Sample ID: 570-27951-22

No Detections.

Client Sample ID: B8-A-5.0

Lab Sample ID: 570-27951-27

No Detections.

Client Sample ID: B9-A-5.0

Lab Sample ID: 570-27951-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	980		400	200	ug/Kg	10		7199	Total/NA

This Detection Summary does not include radiochemical test results.

Method: 7199 - Chromium, Hexavalent (IC)

Client Sample ID: B4-B-5.0
Date Collected: 05/11/20 11:22
Date Received: 05/11/20 17:05
Lab Sample ID: 570-27951-7
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	300	J	400	200	ug/Kg		05/13/20 20:05	05/14/20 09:59	10

Client Sample ID: B5-A-5.0
Date Collected: 05/11/20 13:17
Date Received: 05/11/20 17:05
Lab Sample ID: 570-27951-12
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	540		400	200	ug/Kg		05/13/20 20:05	05/14/20 10:08	10

Client Sample ID: B6-B-5.0
Date Collected: 05/11/20 14:38
Date Received: 05/11/20 17:05
Lab Sample ID: 570-27951-17
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	430		400	200	ug/Kg		05/13/20 20:05	05/14/20 10:17	10

Client Sample ID: B7-A-5.0
Date Collected: 05/11/20 14:17
Date Received: 05/11/20 17:05
Lab Sample ID: 570-27951-22
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		800	400	ug/Kg		05/13/20 20:05	05/14/20 10:26	20

Client Sample ID: B8-A-5.0
Date Collected: 05/11/20 08:32
Date Received: 05/11/20 17:05
Lab Sample ID: 570-27951-27
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	200	ug/Kg		05/13/20 20:05	05/14/20 10:35	10

Client Sample ID: B9-A-5.0
Date Collected: 05/11/20 10:21
Date Received: 05/11/20 17:05
Lab Sample ID: 570-27951-32
Matrix: Solid

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	980		400	200	ug/Kg		05/13/20 20:05	05/14/20 10:44	10

Method: 7199 - Chromium, Hexavalent (IC)

Lab Sample ID: MB 570-68960/1-A
Matrix: Solid
Analysis Batch: 68997

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 68960

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	200	ug/Kg		05/13/20 20:05	05/14/20 08:56	10

Lab Sample ID: LCS 570-68960/2-A
Matrix: Solid
Analysis Batch: 68997

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 68960

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	20000	19140		ug/Kg		96	80 - 120

Lab Sample ID: LCSD 570-68960/3-A
Matrix: Solid
Analysis Batch: 68997

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 68960

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	20000	19030		ug/Kg		95	80 - 120	1	20

Lab Sample ID: 570-27951-12 MS
Matrix: Solid
Analysis Batch: 68997

Client Sample ID: B5-A-5.0
Prep Type: Total/NA
Prep Batch: 68960

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	540		20000	19810		ug/Kg		96	75 - 125

Lab Sample ID: 570-27951-12 MSD
Matrix: Solid
Analysis Batch: 68997

Client Sample ID: B5-A-5.0
Prep Type: Total/NA
Prep Batch: 68960

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	540		20000	19910		ug/Kg		97	75 - 125	0	25

Lab Sample ID: 570-27951-12 MSI
Matrix: Solid
Analysis Batch: 68997

Client Sample ID: B5-A-5.0
Prep Type: Total/NA
Prep Batch: 68960

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	540		973000	985800		ug/Kg		101	75 - 125

Lab Sample ID: 570-27951-12 MSID
Matrix: Solid
Analysis Batch: 68997

Client Sample ID: B5-A-5.0
Prep Type: Total/NA
Prep Batch: 68960

Analyte	Sample Result	Sample Qualifier	Spike Added	MSID Result	MSID Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	540		986000	1194000		ug/Kg		121	75 - 125	19	25

QC Association Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-2

HPLC/IC

Prep Batch: 68960

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27951-7	B4-B-5.0	Total/NA	Solid	3060A	
570-27951-12	B5-A-5.0	Total/NA	Solid	3060A	
570-27951-17	B6-B-5.0	Total/NA	Solid	3060A	
570-27951-22	B7-A-5.0	Total/NA	Solid	3060A	
570-27951-27	B8-A-5.0	Total/NA	Solid	3060A	
570-27951-32	B9-A-5.0	Total/NA	Solid	3060A	
MB 570-68960/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 570-68960/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSD 570-68960/3-A	Lab Control Sample Dup	Total/NA	Solid	3060A	
570-27951-12 MS	B5-A-5.0	Total/NA	Solid	3060A	
570-27951-12 MSD	B5-A-5.0	Total/NA	Solid	3060A	
570-27951-12 MSI	B5-A-5.0	Total/NA	Solid	3060A	
570-27951-12 MSID	B5-A-5.0	Total/NA	Solid	3060A	

Analysis Batch: 68997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27951-7	B4-B-5.0	Total/NA	Solid	7199	68960
570-27951-12	B5-A-5.0	Total/NA	Solid	7199	68960
570-27951-17	B6-B-5.0	Total/NA	Solid	7199	68960
570-27951-22	B7-A-5.0	Total/NA	Solid	7199	68960
570-27951-27	B8-A-5.0	Total/NA	Solid	7199	68960
570-27951-32	B9-A-5.0	Total/NA	Solid	7199	68960
MB 570-68960/1-A	Method Blank	Total/NA	Solid	7199	68960
LCS 570-68960/2-A	Lab Control Sample	Total/NA	Solid	7199	68960
LCSD 570-68960/3-A	Lab Control Sample Dup	Total/NA	Solid	7199	68960
570-27951-12 MS	B5-A-5.0	Total/NA	Solid	7199	68960
570-27951-12 MSD	B5-A-5.0	Total/NA	Solid	7199	68960
570-27951-12 MSI	B5-A-5.0	Total/NA	Solid	7199	68960
570-27951-12 MSID	B5-A-5.0	Total/NA	Solid	7199	68960

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-2

Client Sample ID: B4-B-5.0

Date Collected: 05/11/20 11:22
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-7

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68960	05/13/20 20:05	H2WS	ECL 1
Total/NA	Analysis	7199		10			68997	05/14/20 09:59	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: B5-A-5.0

Date Collected: 05/11/20 13:17
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-12

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68960	05/13/20 20:05	H2WS	ECL 1
Total/NA	Analysis	7199		10			68997	05/14/20 10:08	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: B6-B-5.0

Date Collected: 05/11/20 14:38
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-17

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68960	05/13/20 20:05	H2WS	ECL 1
Total/NA	Analysis	7199		10			68997	05/14/20 10:17	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: B7-A-5.0

Date Collected: 05/11/20 14:17
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-22

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68960	05/13/20 20:05	H2WS	ECL 1
Total/NA	Analysis	7199		20			68997	05/14/20 10:26	P6WT	ECL 1
	Instrument ID: IC11									

Client Sample ID: B8-A-5.0

Date Collected: 05/11/20 08:32
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-27

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68960	05/13/20 20:05	H2WS	ECL 1
Total/NA	Analysis	7199		10			68997	05/14/20 10:35	P6WT	ECL 1
	Instrument ID: IC11									

Lab Chronicle

Client: EEC Environmental
Job ID: 570-27951-2
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B9-A-5.0
Date Collected: 05/11/20 10:21
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-32
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	68960	05/13/20 20:05	H2WS	ECL 1
Total/NA	Analysis	7199		10			68997	05/14/20 10:44	P6WT	ECL 1
	Instrument ID: IC11									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: EEC Environmental
Job ID: 570-27951-2
Project/Site: City of Huntington Beach / S-3506.02T

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: EEC Environmental
Job ID: 570-27951-2
Project/Site: City of Huntington Beach / S-3506.02T

Method	Method Description	Protocol	Laboratory
7199	Chromium, Hexavalent (IC)	SW846	ECL 1
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: EEC Environmental
Job ID: 570-27951-2
Project/Site: City of Huntington Beach / S-3506.02T

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-27951-7	B4-B-5.0	Solid	05/11/20 11:22	05/11/20 17:05	
570-27951-12	B5-A-5.0	Solid	05/11/20 13:17	05/11/20 17:05	
570-27951-17	B6-B-5.0	Solid	05/11/20 14:38	05/11/20 17:05	
570-27951-22	B7-A-5.0	Solid	05/11/20 14:17	05/11/20 17:05	
570-27951-27	B8-A-5.0	Solid	05/11/20 08:32	05/11/20 17:05	
570-27951-32	B9-A-5.0	Solid	05/11/20 10:21	05/11/20 17:05	

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

570-27951 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020
PAGE: 1 OF 4

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
ADDRESS: One City Blvd. West #1800	P.O. NO.: S-3506
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Kaelin Andelin
TEL: 949-274-0224 FAX: (714) 667-2310 E-MAIL:	LAB CONTACT OR QUOTE NO.: Steve Nowak
	SAMPLER(S): (SIGNATURE) Kaelin Andelin
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com; report results to MDLs/J-Flag

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD
1	B1-A-4.0	East Center	5/11	1038	SO	1		X	
2	B1-A-5.0	East Center		1040	SO	1			X
3	B1-A-6.0	East Center		1042	SO	1			X
4	B1-A-7.0	East Center		1045	SO	1			X
5	B1-A-8.0	East Center		1048	SO	1			X
6	B4-B-4.0	Southeast		1120	SO	1		X	
7	B4-B-5.0	Southeast		1122	SO	1			X
8	B4-B-6.0	Southeast		1125	SO	1			X
9	B4-B-7.0	Southeast		1127	SO	1			X
10	B4-B-8.0	Southeast		1130	SO	1			X
11	B5-A-4.0	South Center		1315	SO	1		X	
12	B5-A-5.0	South Center		1317	SO	1			X

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature) Danny H EEC	Date: 5/11/20	Time: 17:05
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

4.8/4.4 SCL

06/01/10 Revision

1295
5/14/2020

27951

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GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020
PAGE: 2 OF 4

LABORATORY CLIENT: EEC Environmental		CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T	P.O. NO.: S-3506
ADDRESS: One City Blvd. West #1800		PROJECT CONTACT: Laura Holder/Kaelin Andelin	LAB CONTACT OR QUOTE NO.: Steve Nowak
CITY: Orange	STATE: CA ZIP: 92868	SAMPLER(S): (SIGNATURE) Kaelin Andelin	LAB USE ONLY
TEL: 949-274-0224	FAX: (714) 667-2310 E-MAIL:		

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com; report results to MDLs/J-Flag

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD
13	B5-A-6.0	South Center	5/11	1320	SO	1			X
14	B5-A-7.0	South Center		1322	SO	1			X
15	B5-A-8.0	South Center		1325	SO	1			X
16	B6-B-4.0	West Center		1435	SO	1		X	
17	B6-B-5.0	West Center		1438	SO	1			X
18	B6-B-6.0	West Center		1441	SO	1			X
19	B6-B-7.0	West Center		1443	SO	1			X
20	B6-B-8.0	West Center		1446	SO	1			X
21	B7-A-4.0	Northwest Corner		1415	SO	1		X	
22	B7-A-5.0	Northwest Corner		1417	SO	1			X
23	B7-A-6.0	Northwest Corner		1420	SO	1			X
24	B7-A-7.0	Northwest Corner	↓	1422	SO	1			X

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature) Bannight EEC	Date: 5/11/20	Time: 17:05
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

1296
5/14/2020

27951

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020
PAGE: 3 OF 4

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
ADDRESS: One City Blvd. West #1800	P.O. NO.: S-3506
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Kaelin Andelin
TEL: 949-274-0224 FAX: (714) 667-2310 E-MAIL:	LAB CONTACT OR QUOTE NO.: Steve Nowak
	SAMPLER(S): (SIGNATURE) Kaelin Andelin
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com; report results to MDLs/J-Flag

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD
25	B7-A-8.0	Northwest Corner	5/11	1425	SO	1			X
26	B8-A-4.0	North Center		0830	SO	1		X	
27	B8-A-5.0	North Center		0832	SO	1			X
28	B8-A-6.0	North Center		0835	SO	1			X
29	B8-A-7.0	North Center		0837	SO	1			X
30	B8-A-8.0	North Center		0840	SO	1			X
31	B9-A-4.0	Northeast Corner		1019	SO	1		X	
32	B9-A-5.0	Northeast Corner		1021	SO	1			X
33	B9-A-6.0	Northeast Corner		1023	SO	1			X
34	B9-A-7.0	Northeast Corner		1025	SO	1			X
35	B9-A-8.0	Northeast Corner		1027	SO	1			X
36	B10-A-4.0	Southwest Corner	↓	1340	SO	1		X	

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature) Dannyk EEC	Date: 5/11/20	Time: 17:05
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

1297
5/14/2020

27951

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020
PAGE: 4 OF 4

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
ADDRESS: One City Blvd. West #1800	P.O. NO.: S-3506
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Kaelin Andelin
TEL: 949-274-0224 FAX: (714) 667-2310 E-MAIL:	LAB CONTACT OR QUOTE NO.: Steve Nowak
	SAMPLER(S): (SIGNATURE) Kaelin Andelin
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com; report results to MDLs/J-Flag

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD	Hexavalent Chromium USEPA 218.6
37	B10-A-5.0	Southwest Corner	5/11	1342	SO	1			X	
38	B10-A-6.0	Southwest Corner		1345	SO	1			X	
39	B10-A-7.0	Southwest Corner		1348	SO	1			X	
40	B10-A-8.0	Southwest Corner		1350	SO	1			X	
41	GW-1	North Center, B8-A		0945	Water	1				X
42	GW-2	Southeast, B4-B		1215	Water	1				X
43	GW-3	Southwest Corner, B10-A		1545	Water	1				X
44	WS-1	Duplicate, B4-B		1220	Water	1				X
45	WS-2	Equipment Blank	↓	1543	Water	1				X

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature) Dannyle EEC	Date: 5/11/20	Time: 1705
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

Stephen Nowak

From: Laura Holder <lholder@eecenvironmental.com>
Sent: Wednesday, May 13, 2020 5:38 PM
To: Stephen Nowak
Subject: RE: Eurofins Calscience report and EDD files from 570-27951-1 City of Huntington Beach / S-3506.02T

EXTERNAL EMAIL*

Hi Steve,

Can we please analyze the following samples that were on hold on rush 24-hr TAT: B4-B-5.0, B5-A-5.0, B6-B-5.0, B7-A-5.0, B8-A-5.0, B9-A-5.0.

Thank you!!

Laura Holder
Project Manager
EEC Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

From: Stephen Nowak [mailto:noreply@eurofinslimsservices.com]
Sent: Wednesday, May 13, 2020 4:06 PM
To: Data; Laura Holder
Subject: Eurofins Calscience report and EDD files from 570-27951-1 City of Huntington Beach / S-3506.02T

Hello,

Attached please find the report and EDD files for job 570-27951-1; City of Huntington Beach / S-3506.02T

Please feel free to contact me if you have any questions.

Thank you.

Stephen Nowak
Project Manager

Eurofins Calscience LLC
Phone: 714-895-5494

E-mail: stephennowak@eurofinsus.com
www.eurofinsus.com/env

Login Sample Receipt Checklist

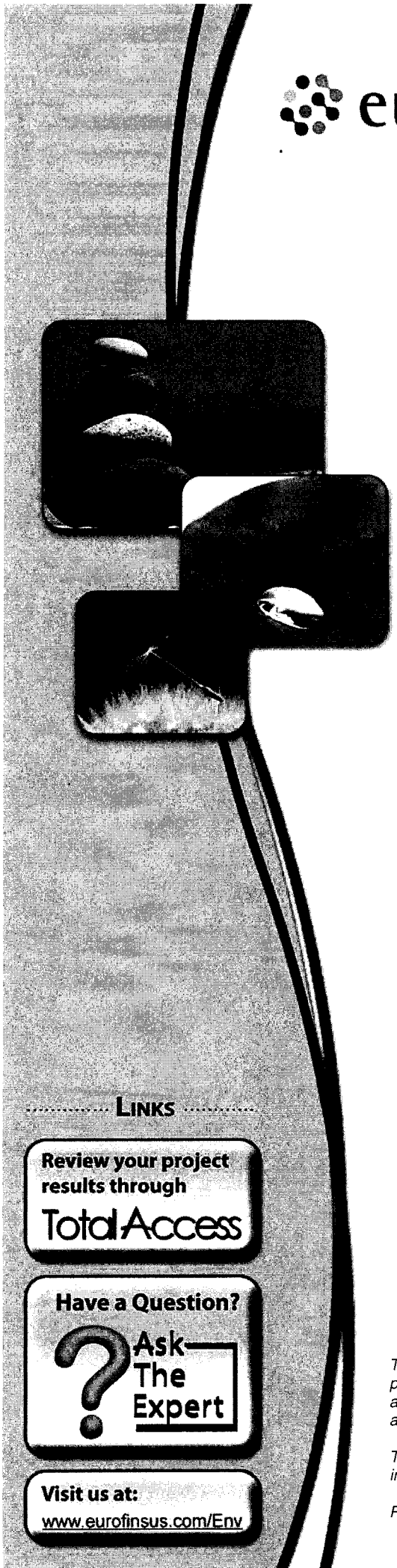
Client: EEC Environmental

Job Number: 570-27951-2

Login Number: 27951
List Number: 1
Creator: Le, Danny

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Calscience LLC
7440 Lincoln Way
Garden Grove, CA 92841
Tel: (714)895-5494

Laboratory Job ID: 570-27951-3
Client Project/Site: City of Huntington Beach / S-3506.02T

For:
EEC Environmental
One City Blvd
Suite 1800
Orange, California 92868

Attn: Laura Holder

Authorized for release by:
5/15/2020 2:17:44 PM

Stephen Nowak, Project Manager I
(714)895-5494
stephennowak@eurofinsus.com

Table of Contents

Definitions/Glossary

Client: EEC Environmental
Job ID: 570-27951-3
Project/Site: City of Huntington Beach / S-3506.02T

Qualifiers

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Case Narrative

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-3

Job ID: 570-27951-3

Laboratory: Eurofins Calscience LLC

Narrative

Job Narrative
570-27951-3

Comments
No additional comments.

Receipt
The samples were received on 5/11/2020 5:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

HPLC/IC
Method 7199: The following sample was diluted due to the nature of the sample matrix: B6-B-8.0 (570-27951-20). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-3

Client Sample ID: B4-B-6.0 — Lab Sample ID: 570-27951-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	380	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B4-B-7.0 — Lab Sample ID: 570-27951-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	330	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B4-B-8.0 — Lab Sample ID: 570-27951-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	410		400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B5-A-6.0 — Lab Sample ID: 570-27951-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	330	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B5-A-7.0 — Lab Sample ID: 570-27951-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	580		400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B5-A-8.0 — Lab Sample ID: 570-27951-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	200	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B6-B-6.0 — Lab Sample ID: 570-27951-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	620		400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B6-B-7.0 — Lab Sample ID: 570-27951-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	350	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B6-B-8.0 — Lab Sample ID: 570-27951-20

No Detections.

Client Sample ID: B7-A-6.0 — Lab Sample ID: 570-27951-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	420		400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B7-A-7.0 — Lab Sample ID: 570-27951-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	270	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B7-A-8.0 — Lab Sample ID: 570-27951-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	330	J	400	200	ug/Kg	10		7199	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: EEC Environmental
Job ID: 570-27951-3
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B8-A-6.0
Lab Sample ID: 570-27951-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	250	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B8-A-7.0
Lab Sample ID: 570-27951-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	240	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B8-A-8.0
Lab Sample ID: 570-27951-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	210	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B9-A-6.0
Lab Sample ID: 570-27951-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chromium, hexavalent	320	J	400	200	ug/Kg	10		7199	Total/NA

Client Sample ID: B9-A-7.0
Lab Sample ID: 570-27951-34

No Detections.

Client Sample ID: B9-A-8.0
Lab Sample ID: 570-27951-35

No Detections.

This Detection Summary does not include radiochemical test results.

Method: 7199 - Chromium, Hexavalent (IC)

Client Sample ID: B4-B-6.0
Lab Sample ID: 570-27951-8
Date Collected: 05/11/20 11:25
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	380	J	400	200	ug/Kg		05/14/20 16:14	05/15/20 10:03	10

Client Sample ID: B4-B-7.0
Lab Sample ID: 570-27951-9
Date Collected: 05/11/20 11:27
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	330	J	400	200	ug/Kg		05/14/20 16:14	05/15/20 10:12	10

Client Sample ID: B4-B-8.0
Lab Sample ID: 570-27951-10
Date Collected: 05/11/20 11:30
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	410		400	200	ug/Kg		05/14/20 16:14	05/15/20 10:21	10

Client Sample ID: B5-A-6.0
Lab Sample ID: 570-27951-13
Date Collected: 05/11/20 13:20
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	330	J	400	200	ug/Kg		05/14/20 16:14	05/15/20 10:30	10

Client Sample ID: B5-A-7.0
Lab Sample ID: 570-27951-14
Date Collected: 05/11/20 13:22
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	580		400	200	ug/Kg		05/14/20 16:14	05/15/20 10:39	10

Client Sample ID: B5-A-8.0
Lab Sample ID: 570-27951-15
Date Collected: 05/11/20 13:25
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	200	J	400	200	ug/Kg		05/14/20 16:14	05/15/20 10:48	10

Client Sample ID: B6-B-6.0
Lab Sample ID: 570-27951-18
Date Collected: 05/11/20 14:41
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	620		400	200	ug/Kg		05/14/20 16:14	05/15/20 10:57	10

Client Sample ID: B6-B-7.0
Lab Sample ID: 570-27951-19
Date Collected: 05/11/20 14:43
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	350	J	400	200	ug/Kg		05/14/20 16:14	05/15/20 11:06	10

Client Sample ID: B6-B-8.0
Lab Sample ID: 570-27951-20
Date Collected: 05/11/20 14:46
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		800	400	ug/Kg		05/14/20 16:14	05/15/20 11:15	20

Method: 7199 - Chromium, Hexavalent (IC)

Client Sample ID: B7-A-6.0
Lab Sample ID: 570-27951-23
Date Collected: 05/11/20 14:20
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	420		400	200	ug/Kg		05/14/20 16:14	05/15/20 11:42	10

Client Sample ID: B7-A-7.0
Lab Sample ID: 570-27951-24
Date Collected: 05/11/20 14:22
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	270	J	400	200	ug/Kg		05/14/20 16:14	05/15/20 11:51	10

Client Sample ID: B7-A-8.0
Lab Sample ID: 570-27951-25
Date Collected: 05/11/20 14:25
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	330	J	400	200	ug/Kg		05/14/20 16:14	05/15/20 12:00	10

Client Sample ID: B8-A-6.0
Lab Sample ID: 570-27951-28
Date Collected: 05/11/20 08:35
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	250	J	400	200	ug/Kg		05/14/20 16:14	05/15/20 12:09	10

Client Sample ID: B8-A-7.0
Lab Sample ID: 570-27951-29
Date Collected: 05/11/20 08:37
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	240	J	400	200	ug/Kg		05/14/20 16:14	05/15/20 12:18	10

Client Sample ID: B8-A-8.0
Lab Sample ID: 570-27951-30
Date Collected: 05/11/20 08:40
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	210	J	400	200	ug/Kg		05/14/20 16:14	05/15/20 12:27	10

Client Sample ID: B9-A-6.0
Lab Sample ID: 570-27951-33
Date Collected: 05/11/20 10:23
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	320	J	400	200	ug/Kg		05/14/20 16:14	05/15/20 12:36	10

Client Sample ID: B9-A-7.0
Lab Sample ID: 570-27951-34
Date Collected: 05/11/20 10:25
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	200	ug/Kg		05/14/20 16:14	05/15/20 12:45	10

Client Sample ID: B9-A-8.0
Lab Sample ID: 570-27951-35
Date Collected: 05/11/20 10:27
Matrix: Solid
Date Received: 05/11/20 17:05

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	200	ug/Kg		05/14/20 16:14	05/15/20 09:54	10

Method: 7199 - Chromium, Hexavalent (IC)

Lab Sample ID: MB 570-69160/1-A
Client Sample ID: Method Blank
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 69279
Prep Batch: 69160

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium, hexavalent	ND		400	200	ug/Kg		05/14/20 16:13	05/15/20 08:51	10

Lab Sample ID: LCS 570-69160/2-A
Client Sample ID: Lab Control Sample
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 69279
Prep Batch: 69160

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	20000	19820		ug/Kg		99	80 - 120

Lab Sample ID: LCSD 570-69160/3-A
Client Sample ID: Lab Control Sample Dup
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 69279
Prep Batch: 69160

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	20000	19820		ug/Kg		99	80 - 120	0	20

Lab Sample ID: 570-27951-35 MS
Client Sample ID: B9-A-8.0
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 69279
Prep Batch: 69160

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND		20000	19360		ug/Kg		97	75 - 125

Lab Sample ID: 570-27951-35 MSD
Client Sample ID: B9-A-8.0
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 69279
Prep Batch: 69160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	ND		20000	18230		ug/Kg		91	75 - 125	6	25

Lab Sample ID: 570-27951-35 MSI
Client Sample ID: B9-A-8.0
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 69279
Prep Batch: 69160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSI Result	MSI Qualifier	Unit	D	%Rec	%Rec. Limits
Chromium, hexavalent	ND		992000	1002000		ug/Kg		101	75 - 125

Lab Sample ID: 570-27951-35 MSID
Client Sample ID: B9-A-8.0
Matrix: Solid
Prep Type: Total/NA
Analysis Batch: 69279
Prep Batch: 69160

Analyte	Sample Result	Sample Qualifier	Spike Added	MSID Result	MSID Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chromium, hexavalent	ND		992000	992300		ug/Kg		100	75 - 125	1	25

HPLC/IC

Prep Batch: 69160

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27951-8	B4-B-6.0	Total/NA	Solid	3060A	
570-27951-9	B4-B-7.0	Total/NA	Solid	3060A	
570-27951-10	B4-B-8.0	Total/NA	Solid	3060A	
570-27951-13	B5-A-6.0	Total/NA	Solid	3060A	
570-27951-14	B5-A-7.0	Total/NA	Solid	3060A	
570-27951-15	B5-A-8.0	Total/NA	Solid	3060A	
570-27951-18	B6-B-6.0	Total/NA	Solid	3060A	
570-27951-19	B6-B-7.0	Total/NA	Solid	3060A	
570-27951-20	B6-B-8.0	Total/NA	Solid	3060A	
570-27951-23	B7-A-6.0	Total/NA	Solid	3060A	
570-27951-24	B7-A-7.0	Total/NA	Solid	3060A	
570-27951-25	B7-A-8.0	Total/NA	Solid	3060A	
570-27951-28	B8-A-6.0	Total/NA	Solid	3060A	
570-27951-29	B8-A-7.0	Total/NA	Solid	3060A	
570-27951-30	B8-A-8.0	Total/NA	Solid	3060A	
570-27951-33	B9-A-6.0	Total/NA	Solid	3060A	
570-27951-34	B9-A-7.0	Total/NA	Solid	3060A	
570-27951-35	B9-A-8.0	Total/NA	Solid	3060A	
MB 570-69160/1-A	Method Blank	Total/NA	Solid	3060A	
LCS 570-69160/2-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSD 570-69160/3-A	Lab Control Sample Dup	Total/NA	Solid	3060A	
570-27951-35 MS	B9-A-8.0	Total/NA	Solid	3060A	
570-27951-35 MSD	B9-A-8.0	Total/NA	Solid	3060A	
570-27951-35 MSI	B9-A-8.0	Total/NA	Solid	3060A	
570-27951-35 MSID	B9-A-8.0	Total/NA	Solid	3060A	

Analysis Batch: 69279

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27951-8	B4-B-6.0	Total/NA	Solid	7199	69160
570-27951-9	B4-B-7.0	Total/NA	Solid	7199	69160
570-27951-10	B4-B-8.0	Total/NA	Solid	7199	69160
570-27951-13	B5-A-6.0	Total/NA	Solid	7199	69160
570-27951-14	B5-A-7.0	Total/NA	Solid	7199	69160
570-27951-15	B5-A-8.0	Total/NA	Solid	7199	69160
570-27951-18	B6-B-6.0	Total/NA	Solid	7199	69160
570-27951-19	B6-B-7.0	Total/NA	Solid	7199	69160
570-27951-20	B6-B-8.0	Total/NA	Solid	7199	69160
570-27951-23	B7-A-6.0	Total/NA	Solid	7199	69160
570-27951-24	B7-A-7.0	Total/NA	Solid	7199	69160
570-27951-25	B7-A-8.0	Total/NA	Solid	7199	69160
570-27951-28	B8-A-6.0	Total/NA	Solid	7199	69160
570-27951-29	B8-A-7.0	Total/NA	Solid	7199	69160
570-27951-30	B8-A-8.0	Total/NA	Solid	7199	69160
570-27951-33	B9-A-6.0	Total/NA	Solid	7199	69160
570-27951-34	B9-A-7.0	Total/NA	Solid	7199	69160
570-27951-35	B9-A-8.0	Total/NA	Solid	7199	69160
MB 570-69160/1-A	Method Blank	Total/NA	Solid	7199	69160
LCS 570-69160/2-A	Lab Control Sample	Total/NA	Solid	7199	69160
LCSD 570-69160/3-A	Lab Control Sample Dup	Total/NA	Solid	7199	69160
570-27951-35 MS	B9-A-8.0	Total/NA	Solid	7199	69160
570-27951-35 MSD	B9-A-8.0	Total/NA	Solid	7199	69160

HPLC/IC (Continued)

Analysis Batch: 69279 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-27951-35 MSI	B9-A-8.0	Total/NA	Solid	7199	69160
570-27951-35 MSID	B9-A-8.0	Total/NA	Solid	7199	69160

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-3

Client Sample ID: B4-B-6.0

Date Collected: 05/11/20 11:25
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-8

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 10:03	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B4-B-7.0

Date Collected: 05/11/20 11:27
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-9

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 10:12	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B4-B-8.0

Date Collected: 05/11/20 11:30
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-10

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 10:21	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B5-A-6.0

Date Collected: 05/11/20 13:20
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-13

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 10:30	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B5-A-7.0

Date Collected: 05/11/20 13:22
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-14

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 10:39	URMH	ECL 1
	Instrument ID: IC11									

Lab Chronicle

Client: EEC Environmental
Project/Site: City of Huntington Beach / S-3506.02T

Job ID: 570-27951-3

Client Sample ID: B5-A-8.0

Date Collected: 05/11/20 13:25
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-15

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 10:48	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B6-B-6.0

Date Collected: 05/11/20 14:41
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-18

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 10:57	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B6-B-7.0

Date Collected: 05/11/20 14:43
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-19

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 11:06	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B6-B-8.0

Date Collected: 05/11/20 14:46
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-20

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		20			69279	05/15/20 11:15	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B7-A-6.0

Date Collected: 05/11/20 14:20
Date Received: 05/11/20 17:05

Lab Sample ID: 570-27951-23

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 11:42	URMH	ECL 1
	Instrument ID: IC11									

Lab Chronicle

Client: EEC Environmental
Job ID: 570-27951-3
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B7-A-7.0
Lab Sample ID: 570-27951-24
Date Collected: 05/11/20 14:22
Matrix: Solid
Date Received: 05/11/20 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 11:51	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B7-A-8.0
Lab Sample ID: 570-27951-25
Date Collected: 05/11/20 14:25
Matrix: Solid
Date Received: 05/11/20 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 12:00	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B8-A-6.0
Lab Sample ID: 570-27951-28
Date Collected: 05/11/20 08:35
Matrix: Solid
Date Received: 05/11/20 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 12:09	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B8-A-7.0
Lab Sample ID: 570-27951-29
Date Collected: 05/11/20 08:37
Matrix: Solid
Date Received: 05/11/20 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 12:18	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B8-A-8.0
Lab Sample ID: 570-27951-30
Date Collected: 05/11/20 08:40
Matrix: Solid
Date Received: 05/11/20 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 12:27	URMH	ECL 1
	Instrument ID: IC11									

Lab Chronicle

Client: EEC Environmental
Job ID: 570-27951-3
Project/Site: City of Huntington Beach / S-3506.02T

Client Sample ID: B9-A-6.0
Lab Sample ID: 570-27951-33
Date Collected: 05/11/20 10:23
Matrix: Solid
Date Received: 05/11/20 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 12:36	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B9-A-7.0
Lab Sample ID: 570-27951-34
Date Collected: 05/11/20 10:25
Matrix: Solid
Date Received: 05/11/20 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 12:45	URMH	ECL 1
	Instrument ID: IC11									

Client Sample ID: B9-A-8.0
Lab Sample ID: 570-27951-35
Date Collected: 05/11/20 10:27
Matrix: Solid
Date Received: 05/11/20 17:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3060A			2.5 g	100 mL	69160	05/14/20 16:14	H2WS	ECL 1
Total/NA	Analysis	7199		10			69279	05/15/20 09:54	URMH	ECL 1
	Instrument ID: IC11									

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Accreditation/Certification Summary

Client: EEC Environmental
Job ID: 570-27951-3
Project/Site: City of Huntington Beach / S-3506.02T

Laboratory: Eurofins Calscience LLC

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
California	Los Angeles County Sanitation Districts	10109	09-29-20
California	SCAQMD LAP	17LA0919	11-30-20
California	State	2944	09-29-20
Guam	State	20-003R	10-31-20
Nevada	State	CA00111	07-31-20
Oregon	NELAP	CA300001	01-29-21
USDA	US Federal Programs	P330-20-00034	02-10-23
Washington	State	C916-18	10-11-20

Method Summary

Client: EEC Environmental
Job ID: 570-27951-3
Project/Site: City of Huntington Beach / S-3506.02T

Method	Method Description	Protocol	Laboratory
7199	Chromium, Hexavalent (IC)	SW846	ECL 1
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	ECL 1

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

ECL 1 = Eurofins Calscience LLC Lincoln, 7440 Lincoln Way, Garden Grove, CA 92841, TEL (714)895-5494

Sample Summary

Client: EEC Environmental
Job ID: 570-27951-3
Project/Site: City of Huntington Beach / S-3506.02T

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
570-27951-8	B4-B-6.0	Solid	05/11/20 11:25	05/11/20 17:05	
570-27951-9	B4-B-7.0	Solid	05/11/20 11:27	05/11/20 17:05	
570-27951-10	B4-B-8.0	Solid	05/11/20 11:30	05/11/20 17:05	
570-27951-13	B5-A-6.0	Solid	05/11/20 13:20	05/11/20 17:05	
570-27951-14	B5-A-7.0	Solid	05/11/20 13:22	05/11/20 17:05	
570-27951-15	B5-A-8.0	Solid	05/11/20 13:25	05/11/20 17:05	
570-27951-18	B6-B-6.0	Solid	05/11/20 14:41	05/11/20 17:05	
570-27951-19	B6-B-7.0	Solid	05/11/20 14:43	05/11/20 17:05	
570-27951-20	B6-B-8.0	Solid	05/11/20 14:46	05/11/20 17:05	
570-27951-23	B7-A-6.0	Solid	05/11/20 14:20	05/11/20 17:05	
570-27951-24	B7-A-7.0	Solid	05/11/20 14:22	05/11/20 17:05	
570-27951-25	B7-A-8.0	Solid	05/11/20 14:25	05/11/20 17:05	
570-27951-28	B8-A-6.0	Solid	05/11/20 08:35	05/11/20 17:05	
570-27951-29	B8-A-7.0	Solid	05/11/20 08:37	05/11/20 17:05	
570-27951-30	B8-A-8.0	Solid	05/11/20 08:40	05/11/20 17:05	
570-27951-33	B9-A-6.0	Solid	05/11/20 10:23	05/11/20 17:05	
570-27951-34	B9-A-7.0	Solid	05/11/20 10:25	05/11/20 17:05	
570-27951-35	B9-A-8.0	Solid	05/11/20 10:27	05/11/20 17:05	

eurofins | Calscience
7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

570-27951 Chain of Custody

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020
PAGE: 1 OF 4

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
ADDRESS: One City Blvd. West #1800	P.O. NO.: S-3506
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Kaelin Andelin
TEL: 949-274-0224 FAX: (714) 667-2310 E-MAIL:	LAB CONTACT OR QUOTE NO.: Steve Nowak
	SAMPLER(S): (SIGNATURE) Kaelin Andelin
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com; report results to MDLs/J-Flag

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD
1	B1-A-4.0	East Center	5/11	1038	SO	1		X	
2	B1-A-5.0	East Center		1040	SO	1			X
3	B1-A-6.0	East Center		1042	SO	1			X
4	B1-A-7.0	East Center		1045	SO	1			X
5	B1-A-8.0	East Center		1048	SO	1			X
6	B4-B-4.0	Southeast		1120	SO	1		X	
7	B4-B-5.0	Southeast		1122	SO	1			X
8	B4-B-6.0	Southeast		1125	SO	1			X
9	B4-B-7.0	Southeast		1127	SO	1			X
10	B4-B-8.0	Southeast		1130	SO	1			X
11	B5-A-4.0	South Center		1315	SO	1		X	
12	B5-A-5.0	South Center		1317	SO	1			X

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature) Dannyk EC2	Date: 5/11/20	Time: 17:05
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

4.8/4.4 SCC

06/01/10 Revision

1319
5/15/2020

27951

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7440 LINCOLN WAY
GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020
PAGE: 2 OF 4

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
ADDRESS: One City Blvd. West #1800	P.O. NO.: S-3506
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Kaelin Andelin
TEL: 949-274-0224 FAX: (714) 667-2310 E-MAIL:	LAB CONTACT OR QUOTE NO.: Steve Nowak
	SAMPLER(S): (SIGNATURE) Kaelin Andelin
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com; report results to MDLs/J-Flag

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD
13	B5-A-6.0	South Center	5/11	1320	SO	1			X
14	B5-A-7.0	South Center		1322	SO	1			X
15	B5-A-8.0	South Center		1325	SO	1			X
16	B6-B-4.0	West Center		1435	SO	1		X	
17	B6-B-5.0	West Center		1438	SO	1			X
18	B6-B-6.0	West Center		1441	SO	1			X
19	B6-B-7.0	West Center		1443	SO	1			X
20	B6-B-8.0	West Center		1446	SO	1			X
21	B7-A-4.0	Northwest Corner		1415	SO	1		X	
22	B7-A-5.0	Northwest Corner		1417	SO	1			X
23	B7-A-6.0	Northwest Corner		1420	SO	1			X
24	B7-A-7.0	Northwest Corner	↓	1422	SO	1			X

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature) Bannigh EEC	Date: 5/11/20	Time: 17:05
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

1320
5/15/2020

27951

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GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020
PAGE: 3 OF 4

LABORATORY CLIENT: EEC Environmental	CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T
ADDRESS: One City Blvd. West #1800	P.O. NO.: S-3506
CITY: Orange STATE: CA ZIP: 92868	PROJECT CONTACT: Laura Holder/Kaelin Andelin
TEL: 949-274-0224 FAX: (714) 667-2310 E-MAIL:	LAB CONTACT OR QUOTE NO.: Steve Nowak
	SAMPLER(S): (SIGNATURE) Kaelin Andelin
	LAB USE ONLY ☐☐-☐☐☐☐

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ____/____/____

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com; report results to MDLs/J-Flag

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD
25	B7-A-8.0	Northwest Corner	5/11	1425	SO	1			X
26	B8-A-4.0	North Center		0830	SO	1		X	
27	B8-A-5.0	North Center		0832	SO	1			X
28	B8-A-6.0	North Center		0835	SO	1			X
29	B8-A-7.0	North Center		0837	SO	1			X
30	B8-A-8.0	North Center		0840	SO	1			X
31	B9-A-4.0	Northeast Corner		1019	SO	1		X	
32	B9-A-5.0	Northeast Corner		1021	SO	1			X
33	B9-A-6.0	Northeast Corner		1023	SO	1			X
34	B9-A-7.0	Northeast Corner		1025	SO	1			X
35	B9-A-8.0	Northeast Corner		1027	SO	1			X
36	B10-A-4.0	Southwest Corner	↓	1340	SO	1		X	

Relinquished by: (Signature) Kaelin Andelin	Received by: (Signature) Dannyle EEC	Date: 5/11/20	Time: 17:05
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

1321
5/15/2020

27951

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GARDEN GROVE, CA 92841-1427
TEL: (714) 895-5494 . FAX: (714) 894-7501

CHAIN OF CUSTODY RECORD

DATE: May 11, 2020
PAGE: 4 OF 4

LABORATORY CLIENT: EEC Environmental		CLIENT PROJECT NAME / NUMBER: City of Huntington Beach/S-3506.02T	P.O. NO.: S-3506
ADDRESS: One City Blvd. West #1800		PROJECT CONTACT: Laura Holder/Kaelin Andelin	LAB CONTACT OR QUOTE NO.: Steve Nowak
CITY: Orange	STATE: CA ZIP: 92868	SAMPLER(S): (SIGNATURE)	LAB USE ONLY
TEL: 949-274-0224	FAX: (714) 667-2310 E-MAIL:		

TURNAROUND TIME:
☐ SAME DAY ☐ 24 HR ■ 48 HR ☐ 72 HR ☐ 5 DAYS ☐ 10 DAYS

SPECIAL REQUIREMENTS (ADDITIONAL COSTS MAY APPLY)
☐ RWQCB REPORTING ☐ ARCHIVE SAMPLES UNTIL ___/___/___

SPECIAL INSTRUCTIONS:
Email results to lholder@eecenvironmental.com; report results to MDLs/J-Flag

REQUESTED ANALYSIS

LAB USE ONLY	SAMPLE ID	LOCATION / DESCRIPTION	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	Preservatives	Hexavalent Chromium EPA 7199	HOLD	Hexavalent Chromium USEPA 218.6
37	B10-A-5.0	Southwest Corner	5/11	1342	SO	1			X	
38	B10-A-6.0	Southwest Corner		1345	SO	1			X	
39	B10-A-7.0	Southwest Corner		1348	SO	1			X	
40	B10-A-8.0	Southwest Corner		1350	SO	1			X	
41	GW-1	North Center, B8-A		0945	Water	1				X
42	GW-2	Southeast, B4-B		1215	Water	1				X
43	GW-3	Southwest Corner, B10-A		1545	Water	1				X
44	WS-1	Duplicate, B4-B		1220	Water	1				X
45	WS-2	Equipment Blank	↓	1543	Water	1				X

Relinquished by: (Signature)	Received by: (Signature)	Date: 5/11/20	Time: 1705
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:

06/01/10 Revision

1322
5/15/2020

Stephen Nowak

From: Laura Holder <lholder@eecenvironmental.com>
Sent: Wednesday, May 13, 2020 8:15 PM
To: Stephen Nowak
Subject: FW: Eurofins Calscience report and EDD files from 570-27951-1 City of Huntington Beach / S-3506.02T

EXTERNAL EMAIL*

Hi Steve,

I know it's late but wanted to get this info to you asap. We would like to have the following additional samples added for 24-hr TAT for hex chrome 7199: B4-B-6.0, 7.0, and 8.0; B5-A-6.0, 7.0, and 8.0; B6-B-6.0, 7.0, and 8.0; B7-A-6.0, 7,0. and 8.0; B8-A-6.0, 7.0, and 8.0; and B9-A-6.0, 7.0, and 8.0. Basically it's all other samples for the boring locations B4, B5, B6, B7, B8, and B9. I'll do the same for the other job but will send in a separate Email.

Thanks!!

LAURA HOLDER
Project Manager
EEC Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

From: Laura Holder
Sent: Wednesday, May 13, 2020 5:38 PM
To: stephennowak@eurofinsus.com
Subject: RE: Eurofins Calscience report and EDD files from 570-27951-1 City of Huntington Beach / S-3506.02T

Hi Steve,

Can we please analyze the following samples that were on hold on rush 24-hr TAT: B4-B-5.0, B5-A-5.0, B6-B-5.0, B7-A-5.0, B8-A-5.0, B9-A-5.0.

Thank you!!

LAURA HOLDER
Project Manager
EEC Environmental
One City Boulevard West | Suite 1800 | Orange, CA 92868
O (714) 667-2304 | F (714) 667-2310 | C (949) 274-0224
lholder@eecenvironmental.com | www.eecenvironmental.com

From: Stephen Nowak [mailto:noreply@eurofinslimsservices.com]
Sent: Wednesday, May 13, 2020 4:06 PM
To: Data; Laura Holder
Subject: Eurofins Calscience report and EDD files from 570-27951-1 City of Huntington Beach / S-3506.02T

Hello,

Login Sample Receipt Checklist

Client: EEC Environmental

Job Number: 570-27951-3

Login Number: 27951
List Number: 1
Creator: Le, Danny

List Source: Eurofins Calscience

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Appendix B

EEC ENVIRONMENTAL

Corporate Office
Tel: (714) 667-2300
Fax: (714) 667-2310
One City Boulevard West, Suite 1800
Orange, California 92868
www.eecenvironmental.com

Site Assessment Report

Undeveloped Land
17642 Beach Boulevard
Huntington Beach, California

June 25, 2020

Prepared for:

Mr. Carlos Marquez
City of Huntington Beach
200 Main Street
Huntington Beach, California 92648

Prepared by:
EEC Environmental
One City Boulevard West, Suite 1800
Orange, California 92868
EEC S-3506.02T

PROFESSIONAL GEOLOGIST
DAVID BERNIER
No. 9425
STATE OF CALIFORNIA

Laura Holder
Project Manager

David Bernier, PG
Principal Geologist

TABLE OF CONTENTS

Tables

Figures

Appendices

1.0 INTRODUCTION

On behalf of the City of Huntington Beach, EEC Environmental (EEC) has prepared this Site Assessment Report for the property located at 17642 Beach Boulevard, Huntington Beach, California (subject property; Figure 1, *Site Location Map*). The purpose of the site assessment was to address findings of EEC's Phase I Environmental Site Assessment (ESA) dated March 18, 2020. The Phase I ESA identified the following environmental concerns: potential use of pesticides/herbicides and lead-based paint in connection with former agricultural and residential use of the subject property, and the lack of specific information related to the former use of the east half of the subject property as a storage lot in the 1960s. The Phase I ESA recommended soil sampling and a geophysical survey. The Phase I ESA and the site assessment were completed in connection with a proposed real estate transaction.

This report documents the methods, procedures, and results of the site assessment activities at the subject property. All work was completed in general accordance with EEC's April 2, 2020 proposal to the City of Huntington Beach (EEC, 2020) and subsequent correspondence between the City of Huntington Beach and EEC. All work was performed under the supervision of a California licensed Professional Geologist (PG).

1.1 Scope of Work

The completed site assessment activities included the following tasks:

- Preparing a site-specific health and safety plan (HASP) appropriate for the scope of work.
- Contacting Underground Service Alert (USA) a minimum of 72 hours prior to initiation of fieldwork.
- Conducting a geophysical survey.
- Advancing 9 soil borings to total depths ranging between 3 feet and 8 feet below ground surface (bgs) and collecting soil samples.
- Analyzing soil samples.

2.0 BACKGROUND

2.1 Site Description

The approximately 0.79-acre subject property consists of an undeveloped lot identified as Assessor Parcel Number (APN) 167-042-09, located at 17642 Beach Boulevard in Huntington Beach, Orange County, California. A Phase I ESA was completed for the subject property on March 18, 2020 (EEC, 2020). The Phase I ESA indicated that based on a review of historical aerial photographs, the subject property appeared to be used for agricultural purposes (row crops) from the 1930s to the 1950s and given this usage, it is possible that pesticides and/or herbicides were once used onsite. Additionally, due to the date of construction of the former onsite residences (1930s), lead-based paint may have been used onsite. Further, during the 1960s, the east half of the subject property appeared to be used as a storage lot, but information was not obtained related to the specific use. During site reconnaissance for the Phase I ESA, uneven topography was observed on this portion of the subject property.

Based on this information, the Phase I ESA recommended soil sampling to assess for potential residual pesticides and herbicides from former agricultural use; to assess for potential lead in the locations of the