Valley Oak Partners, LLC
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December 3, 2013

Mr. Mark Detterman, PG, CEG
Senior Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502

Re: ***Soil Cleanup Documentation Report***
23830 & 23836 Saklan Road and 24137 Eden Avenue
Hayward, California

Dear Mr. Detterman:

I declare under penalty of perjury that to the best of my knowledge the information and recommendations contained in the attached report are true and correct.

If you have any questions or need additional information, please call me at (408) 282-0991.

Sincerely,

Steve Fisher
Partner, Valley Oak Partners, LLC

Attachment: November 26, 2013 Tetra Tech, Inc. *Soil Cleanup Documentation Report, 23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California*

TETRA TECH

November 26, 2013
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Mr. Steve Fisher
Valley Oak Partners, LLC
734 The Alameda
San Jose, California 95126

Re: Soil Cleanup Documentation Report
23830 & 23836 Saklan Road and 24137 Eden Ave
Hayward, California
Tetra Tech Inc. Project 117-7059010.01

Dear Mr. Fisher

This report documents the sampling, excavation and off-site disposal of pesticide- and PCB-impacted soil from the 23830 & 23836 Saklan Road and 24137 Eden Avenue site in Hayward, California (the Property). Field activities were performed in accordance with the scope of work presented in the August 14, 2013 proposal titled *Proposal for Soil Cleanup – Excavation and Off-Site Disposal, 23836 Saklan Road Property in Hayward, California*. Work was also performed in accordance with follow-up emails with you, and discussions with the Alameda County Environmental Health Department case manager for the Property, Mr. Mark Detterman, PG, CEG.

The pesticide- and PCB-impacted soil was removed from the Property in preparation for residential redevelopment. Soil was cleaned up to meet State of California and U. S. EPA human health screening levels for residential land use, as follows:

- Environmental Screening Level (ESL) values published by the State of California Regional Water Quality Control Board (RWQCB), San Francisco Bay Region, Table A-1, Shallow Soil, Direct Exposure Value, May 2013.

- California Human Health Screening Level (CHHSL) values published by the State of California Department of Toxic Substances Control (DTSC) and the Office of Environmental Health Hazard Assessment (OEHHA), Table 1, Residential Scenario, September 2010.

- Regional Screening Level (RSL) values published by the U.S. Environmental Protection Agency (EPA), Region IX, Summary Table, Residential Soil, May 2013.

These cleanup values are conservative values protective of human health under residential land use, and are commonly used to guide soil cleanup activities.

The Property location is shown on Figure 1 and the Property plot plan is shown on Figure 2. The Property currently supports three single-family homes with several outbuildings. The Property formerly supported plant nursery businesses, with greenhouses formerly present on the two Saklan Road parcels.

Property conditions and historical Property use, including prior soil sample results are described in the July 2, 2013 Tetra Tech report titled *Phase I and Phase II Environmental Site Assessment, Three Adjacent Residential Parcels, 23830 and 23836 Saklan Road, and 24137 Eden Avenue, Hayward, California* (ESA report). Residual concentrations of pesticide and PCB compounds were shown to be present in surface soil within portions of the Property. The prior (1990 – 1991) sample results are shown on Figure 3.

In summary, for this soil cleanup investigation, 329.41 tons of soil were excavated and disposed off-site. A total of 49.44 tons of soil (2 truck loads) were disposed as hazardous waste (due to total DDT, DDD and DDE concentrations above 1 part per million [ppm]) at the Clean Harbors Buttonwillow Class I landfill located near Buttonwillow (west of Bakersfield), California, and a total of 279.97 tons of soil (13 truckloads) were disposed as non-hazardous waste at the Recology Hay Road Landfill located east of Vacaville, California. Pre- and post-excavation confirmation soil sampling was performed; final soil sample results were below State and Federal screening level values for residential land use. Work perimeter air monitoring was performed during the soil excavation activities, and the results were non-detect for pesticides and PCBs.

The main target pesticide compounds that exceeded the cleanup criteria were beta-BHC and chlordane. Residual concentrations of DDT, and DDT breakdown products DDD and DDE, were also present in soil, in concentrations mostly below cleanup criteria but often above the State of California “Total Threshold Limit Concentration” (TTLC) value of 1 part per million (ppm) as defined in California Title 22 regulations. It was the presence of DDT / DDD / DDE in a total concentration above 1 ppm, but in most cases below corresponding residential cleanup levels, that triggered the requirement to dispose of some of the soil as hazardous waste.

A summary of the field activities, analytical results and waste disposal documentation is presented in the following sections.

SOIL CHARACTERIZATION

Soil impacts were assessed by performing several rounds of soil sampling across the Property in 2013. Results of initial sampling conducted February 27, 2013 and March 27, 2013 were presented in the July 2, 2013 Phase I and Phase II Environmental Site Assessment report

(ESA). The sample results are included in Tables 1 through 3 and the initial sample locations are shown on Figure 4.

The delineation of areas for soil cleanup was initially defined in the ESA. Additional soil sampling was conducted in September and October 2013 to confirm clean conditions around the perimeter of excavation areas. In some instances, several step-out soil samples were collected to delineate clean soil conditions. Excavation confirmation soil samples were collected from the bottom and sidewalls of the excavations in order to confirm that all of the impacted soil areas had been excavated to the clean-up level criteria.

The DTSC schools agricultural land sampling guidance was initially used to determine soil sample locations for this clean-up effort: *Interim Guidance for Sampling Agricultural Properties (*August 7, 2008, Third Revision*).* The DTSC document recommended that four soil samples should be collected on the Property, based on its size. However, in consideration of the earlier sampling results and the proposed future land use (townhomes), four samples were not considered to be enough to characterize exposure for individual townhomes. As a result, a tight grid pattern was created that provided good coverage across each parcel. The grid pattern took into consideration areas that were former locations of greenhouses and included potential hot spot areas identified by earlier sampling (see the ESA report).

Discrete soil samples were considered a requirement because of the planned residential land use of the Property as townhomes. Composite soil samples were not collected because each parcel sampled is not considered to be one population in terms of potential exposure, each parcel will be divided into numerous small areas for the townhomes. For that reason it was important to use the discrete soil samples to identify “hot spots” that required cleanup.

The initial soil sample results for 23830 Saklan Road, 24137 Eden Avenue, and 23836 Saklan Road are displayed on Figures 5, 6, and 7, respectively. The results of the soil sampling are summarized below:

- 23830 Saklan Road - this parcel did not contain pesticides above agency screening level criteria (Table 1 and Figure 5).
- 24137 Eden Avenue – Chlordane was detected slightly above agency screening level criteria at one location, 37-GS15-0.5’ (Table 3 and Figure 6).
- 23836 Saklan Road - PCB and pesticide residues were detected above agency screening criteria for residential land use. Specifically, the pesticide beta-BHC was present in surface soil in concentrations exceeding screening criteria. The pesticide DDT, along with DDD and DDE, were also present in surface soil, but in concentrations below agency screening level criteria for residential land use. PCBs were detected in soil at three sampling locations above agency screening level criteria (Table 2 and Figure 7).

At the request of the Alameda County Environmental Health Department (ACEHD), additional soil sampling was completed on the 23830 Saklan Road parcel because DDT and DDE sample results from one location ("30-GS5") were detected close to, but did not exceed, the residential land use screening level criteria. On September 30, 2013, three near-surface soil samples (0.5 feet in depth) were collected approximately 10-feet out from sample location 30-GS5 in a triangular pattern, equally distant from one another (30-GS-17, 30-GS-18, and 30-GS19). Detected concentrations of DDE and DDT were less than agency screening level criteria, and less than the initially detected concentrations at 30-GS5 (Figure 5). As a result, no soil cleanup work was performed on the 23830 Saklan Road parcel.

Additional soil sampling was also performed at the request of the ACEHD on the 24137 Eden Avenue parcel in follow-up to the single detection of chlordane at location 37-GS15, slightly above the residential screening level (Figure 6). Four additional soil samples were collected: one at 1.5 feet in depth at 37-GS15, and three near-surface soil samples at 0.5 feet in depth, roughly 10 feet away, in a triangular shape around sample location 37-GS15 (37-GS16, 37-GS-17, and 37-GS-18). Chlordane was not detected above the agency screening level at the 1.5-foot depth at sample location 37-GS15. Chlordane was detected above the agency screening level at the three additional near-surface soil sample locations. Four additional soil samples were then collected to further assess lateral extent of chlordane on October 10, 2013 (37-GS19, 37-GS20, 37-GS21, and 37-GS22). Chlordane was detected above the agency screening level criteria at one location (37-GS19). The results of the additional soil sampling are included in Table 3 and Figure 6. The analytical data sheets and chain of custody forms are presented in Attachment B.

SOIL EXCAVATION AND STOCKPILING

On August 26 and 27, 2013, Tetra Tech provided oversight for the excavation of PCB- and pesticide-impacted soil in selected areas of the 23836 Saklan Road parcel as shown on Figures 8 and 9. Additional soil was excavated from the 23836 Saklan Road parcel on October 21, 2013, and pesticide-impacted soil was excavated from the 24137 Eden Avenue parcel on October 21 and 22, 2013, as shown on Figure 10.

Prior to beginning both the August and the October soil excavation work, a public notice was prepared and provided to homes adjacent and close to the southern and northern Property boundaries to inform neighbors of the upcoming heavy equipment work. The notices were provided to the Homeowners Association (governing the residences adjacent to the Property) by Valley Oak Partners, LLC.

Soil was excavated using an excavator and backhoe. Water was applied prior to and during excavation activities to suppress dust. Photographs of the soil excavation and stockpiling activities, selected confirmation soil sample locations, perimeter air monitoring, and truck loading / off-hauling activities are presented in Attachment A.

The pesticide-impacted soil was temporarily stockpiled on site in three separate piles. One pile was identified as the “hazardous” pile because it was generated from the excavation of surface soil identified as containing total DDT / DDD / DDE concentrations above 1 ppm. A second soil pile was created and identified as the “non-hazardous” pile because it was generated from soil excavated from areas that contained non-hazardous concentrations of pesticides. A third pile was created from soil excavated from areas that did not have enough soil sample data to be confident of the resulting pesticide concentrations. All three piles were covered by plastic sheeting to protect against wind erosion.

Each soil pile was profiled separately for disposal purposes. Separate 4-point composite soil samples were collected from the “hazardous” pile and the “non-hazardous” pile. Two 4-point composite soil samples were collected from the larger third pile: one was collected from the eastern half of the pile and one was collected from the western half. For sample identification purposes, the “hazardous” soil pile was identified as Pile 1, the “non-hazardous” soil pile was identified as Pile 2, and the third pile was identified as Pile 3. The four composite soil profile samples were collected and transported under chain of custody protocol and hand delivered to CLS Laboratories in Rancho Cordova, California for total pesticide analysis using EPA Method 8081A, PCB analysis using EPA method 8082A, CAM 17 metals analysis using EPA Method 6000 series, total petroleum hydrocarbon as diesel and as motor oil (TPH-d,mo) using EPA Method 8015M, and total petroleum hydrocarbon as gasoline (TPH-g) and benzene, toluene, ethyl benzene, and xylene using EPA Method 8260B. Results of the soil profile sample analyses are presented in Table 4. Copies of the laboratory analytical data sheets and chain of custody forms are presented in Attachment C.

Pile 1 – Hazardous Soil Pile

The total DDT / DDD / DDE concentration from the composite soil sample collected from the “hazardous” soil pile did not exceed the 1 ppm TTLC criteria for hazardous waste. However, because the discrete soil samples collected during the Phase II site investigation were above the 1 ppm criteria, the soil required disposal as a hazardous waste.

The soil was accepted by the Buttonwillow Class I landfill for disposal.

Pile 2 – Non-Hazardous Soil Stockpile

Pesticide concentrations in the composite sample collected from the non-hazardous soil pile were below corresponding TTLC criteria for designation as a hazardous waste. At the request of the landfill, the profile sample was reanalyzed for chromium using the Title 22 Solubility Threshold Leaching Criteria (STLC) waste extraction test. Chromium was detected in the sample at 0.87 milligrams per liter (mg/L) which is below the chromium STLC value of 5 mg/L; the soil could therefore be handled as non-hazardous.

The soil was accepted for disposal as non-hazardous waste at the Recology Hay Road Landfill.

Pile 3 – Third Soil Stockpile
Pesticide concentrations in the two composite samples collected from the third soil pile were below corresponding TTLC criteria for designation as a hazardous waste. At the request of the landfill, the profile samples were reanalyzed for chromium using the STLC waste extraction test. Chromium was detected at 0.65 mg/L and 2.5 mg/L in samples Pile 3-1 and Pile 3-2, respectively, which are below the chromium STLC value of 5 mg/L; the soil could therefore be handled as non-hazardous.

The soil was accepted for disposal as non-hazardous waste at the Recology Hay Road Landfill.

CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS

A total of 22 post-excavation confirmation soil samples were collected from the side-walls and bottom of each of the excavated areas on August 28, 2013. Additional step-out confirmation sampling was conducted on September 10, 2013 and September 30, 2013 to further delineate soil with pesticide concentrations above agency screening criteria. The confirmation soil samples were collected and transported under chain of custody protocol and hand delivered to CLS Laboratories in Rancho Cordova, California, for pesticide analysis using EPA Method 8081A, and for PCB analysis using EPA Method 8082. Confirmation soil sample locations are shown on Figures 8 and 9. Sample results are provided in Table 5, and copies of laboratory analytical data sheets and chain of custody forms are provided in Attachment C. With one exception, all final confirmation soil sample results met the cleanup criteria. The one exception was soil sample 37-GS19 that contained chlordane above the cleanup level criteria. Results from nearby sample location 37-GS14 were used to delineate clean soil conditions in that area.

OFF-SITE DISPOSAL

Tetra Tech arranged for the loading and off-site transport of the stockpiled soil from the Property. On October 22, 2013, a total of 15 truckloads of soil were transported off-site for disposal. Water spray was applied during the truck loading activities to suppress potential dust. The soil was moist and no visible dust emissions were observed during the soil loading. Air monitoring was conducted during the loading of the trucks as described in the Air Monitoring section below.

Two truckloads of soil (totaling 49.44 tons) were transported as hazardous waste to Buttonwillow Landfill for disposal. A Uniform Hazardous Waste Manifest, signed by the generator and transporter, was sent with each truckload. A copy of the generator-, transporter- and landfill-signed waste manifests, and the landfill-generated weight summary report for disposal of the hazardous soil is provided in Attachment D.

Thirteen truckloads of soil (totaling 279.97 tons) were transported as non-hazardous waste to Recology Hay Road Landfill. Each truckload was sent with a Non-Hazardous Waste Manifest that included the Waste Profile Number. A copy of the signed manifest forms, and the Recology Hay Road Landfill-generated weight summary report for disposal of the non-hazardous soil is provided in Attachment E.

AIR MONITORING

Tetra Tech performed perimeter air monitoring to document air quality conditions around the perimeter of the work area, including locations closest to the adjacent residential homes, during the periods of soil excavation conducted on August 26 and 27 and for the excavation, loading and off-hauling conducted on October 21 and 22, 2013.

Air quality was monitored at three locations around the perimeter of the work area during each excavation event and during the loading and off-haul. For the August 26 and 27, 2013 excavation, air quality instruments were placed at one location on the southern fence line near the western soil excavation areas; along the southern fence line near the eastern soil excavation areas; and along the northern fence line (Figure 4). The western-most air monitoring location was moved onto the Eden Avenue property during the October soil excavation event to monitor the excavation completed within the southwestern corner of the 24137 Eden Avenue parcel.

Each of the monitoring stations consisted of a real-time particulate monitor (dust monitor) and a 1-liter per minute (LPM) air sampling pump fitted with a particulate filter cartridge. The dust meters operated during the majority of each 8-hour work day on August 26 and 27 and October 21 and 22, and the air sampling pumps operated during the soil excavation and stockpiling activities that occurred each day. The air sampling pumps operated 2.5 hours on August 26th and for 5.8 hours on August 27, resulting in an 8.3-hour sample period for each of the air sampling pumps. During the second excavation event the air sampling pumps operated for 8 hours on October 21.

Air Sampling Pumps

The three air sampling pumps (Model Aircheck 52) were fitted with particulate filters (SKS-West ST PUF 76 mm). The three particulate filters were submitted to Galson Laboratories under chain of custody protocols after each of the two 8-hour monitoring events (August 26 and 27, and October 21). Galson Laboratories in turn submitted the samples to Bureau Veritas North America in Novi, Michigan for analysis of 21 organochlorine pesticides, including Beta-BHC and DDT / DDD / DDE, and PCBs, using EPA Method TO-10A.

No pesticide or PCB compounds were detected during each of the two monitoring events. The laboratory reporting limit was 0.05 micrograms (ug) for all compounds except toxaphene, which had a reporting limit of 1 ug. Laboratory results were converted from a weight to a

concentration using the amount of air which passed through the filters. Laboratory results were therefore reported in concentration units of milligrams per cubic meter (mg/m^3), as presented on the laboratory analytical data sheets provided in Attachment F. Sample results varied from <0.000098 mg/m^3 (October east fence sample) to <0.00010 mg/m^3 (August east fence sample) for all compounds except toxaphene, which had a reporting limit of <0.0015 to <0.0022 mg/m^3, and is not a chemical of concern at the Property

The sample results were compared to State of California OSHA permissible exposure limit (PEL) time weighted average (TWA) values for chlordane and DDT (Title 8, Section 5155, Table AC-1) to confirm that the reporting limits were below corresponding action levels. The compounds DDD and DDE do not have corresponding PEL values. The PELs for chlordane and DDT are 0.5 mg/m^3 and 1 mg/m^3, respectively. The laboratory reporting limits were well below the target health concentrations (PEL values).

Dust Monitors

Dust monitors (Thermo Personal Data RAM Aerosol Monitor) provided real-time visual observations of airborne dust and were used to evaluate whether dust suppression activities were adequate. Real-time aerosol monitors were used to evaluate total dust concentrations expressed in mg/m^3. Real-time dust measurements, time weighted average dust measurements, along with the current weather conditions, and the activities being conducted at the time were documented in field monitoring logs at approximately 15-minute intervals during the duration of the activities with the potential for creating dust. The results of the monitoring were compared to a concentration 0.5 mg/m^3, which is the State of California OSHA PEL for chlordane (assuming all measured dust was chlordane). The dust monitoring results were all below 0.5 mg/m^3.

Dust was not detected in the dust monitors during the soil excavation or loading activities and no dust was observed in the air. Moisture retained in the covered stockpiles and additional soil wetting during truck loading was sufficient to control dust emissions. Results of the air monitoring indicate that wetting of the soil prior to and during the excavation and stockpiling activities was effective in suppressing dust and not allowing pesticide-impacted dust from leaving the Property.

SUMMARY AND CONCLUSION

A total of 329.41 tons of pesticide-impacted soil were excavated from the Property and transported off site for disposal. A total of 279.97 tons of soil was disposed at the Recology Hay Road Landfill as non-hazardous waste and a total of 49.44 tons of soil were disposed at the Buttonwillow Landfill as hazardous waste.

Based on the confirmation soil analytical results, the pesticide-impacted soil exceeding residential land use criteria has been removed from the Property.

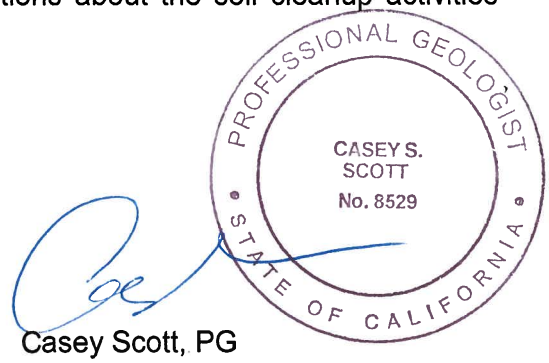
Air monitoring results and field observations showed that soil containing elevated concentrations of pesticides did not migrate off-site during the soil excavation and truck loading activities.

CLOSURE

Please contact Tim Costello should you have any questions about the soil cleanup activities described above.

Sincerely,
Tetra Tech, Inc.

Tim Costello
Senior Scientist
Associate



Casey Scott, PG
Senior Scientist

Attachments:

FIGURES

Figure 1	Site Location Map
Figure 2	Plot Plan
Figure 3	Former Soil Sample Locations 1990 - 1991
Figure 4	Overview of Excavation, Sampling, and Air Monitoring Locations
Figure 5	23830 Saklan Road Soil Sample Results,
Figure 6	24137 Eden Avenue Soil Sample Results,
Figure 7	23836 Saklan Road Sample Results, February / March 2013
Figure 8	Soil Excavation Areas and Confirmation Sampling Results, 23836 Saklan Road
Figure 9	Close-up of 23836 Saklan Road Soil Excavation Areas, Showing Selected Sample Results
Figure 10	Close-up of 24137 Eden Avenue Soil Excavation Areas

TABLES

Table 1	Analytical Results Summary – Surface Soil Samples, 23830 Saklan Road
Table 2	Analytical Results Summary – Surface Soil Samples, 23836 Saklan Road

Table 3	Analytical Results Summary – Surface Soil Samples, 24137 Eden Avenue
Table 4	Analytical Results Summary – Disposal Profile Soil Samples, 23836 Saklan Road
Table 5	Analytical Results Summary – Confirmation Soil Samples, 23836 Saklan Road

ATTACHMENTS

Attachment A	Photo Log
Attachment B	Additional Phase II Investigation Laboratory Analytical Data Sheets and Chain of Custody Forms
Attachment C	Soil Profile and Confirmation Soil Sample Laboratory Analytical Data Sheets and Chain of Custody Forms
Attachment D	Hazardous Waste Manifests and Landfill Weight Report
Attachment E	Non-hazardous Waste Manifests and Landfill Weight Report
Attachment F	Perimeter Air Monitoring Analytical Data Sheets and Chain of Custody Form

TABLE 1
Analytical Results Summary - Surface Soil Samples
23830 Saklan Road
Hayward, California

		O.C. Pesticides 8081A (µg/Kg)						
Sample ID	**Date**	**alpha-BHC**	**beta-BHC**	**delta-BHC**	**Chlordane**	**4,4´-DDD**	**4,4´-DDE**	**4,4´-DDT**
30-GS1-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS2-0.5'	2/26/2013	< 20	< 100	< 100	220	< 150	< 150	< 150
30-GS3-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS4-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS5-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	1,300	1,400
30-GS6-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	180	< 150
30-GS7-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS8-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS9-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS10-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS11-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS12-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	170	< 150
30-GS13-0.5'	2/26/2013	< 20	< 100	< 100	< 200	170	430	< 150
30-GS14-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	250	200
30-GS15-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	200	330
30-GS16-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	210	240
30-GS17-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	< 150	200
30-GS18-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	570	690
30-GS19-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	< 150	160
RSL		77	270	nv	1,600	2,000	1,400	1,700
TTLC		nv	nv	nv	2,500	1,000	1,000	1,000
CHHSL		nv	nv	nv	430	2,300	1,600	1,600
ESL		nv	nv	nv	440	2,400	1,700	1,700

Notes:

See laboratory analytical data sheets for list of compounds and reporting limits; **Results in BOLD exceed agency screening criteria.**

µg/Kg micrograms per kilograms or parts per billion (ppb).

CHHSL California Human Health Screening Level, Office of Environmental Health Hazard Assessment, Table 1, Residential Soil, September 2010. Soil screening numbers based on total exposure to contaminated soil: inhalation, ingestion, dermal absorption.

ESL Environmental Screening Level, RWQCB - San Francisco Region, Table A-1, Direct Exposure, Human Health, Shallow Soil Screening Levels, Residential Land Use, February 2013

nv no value.

TTLC Total Threshold Limit Concentrations, Title 22; limit for off-site disposal as a hazardous waste.

RSL EPA Regional Screening Levels, Summary Table, Residential Soil, May 2013

O.C. Organochlorine

TABLE 2
Analytical Results Summary - Surface Soil Samples
23836 Saklan Road
Hayward, California

Valley Oak Partners
Hayward Properties

		O.C. Pesticides 8081A (µg/Kg)								PCBs by EPA Method 8082A (µg/Kg)	CAM Metals by EPA Method 6010 (mg/Kg)					TPH 8015M (mg/Kg)	
Sample ID	**Date**	**alpha-BHC**	**beta-BHC**	**delta-BHC**	**Chlordane**	**4,4´-DDD**	**4,4´-DDE**	**4,4´-DDT**	**Meth-oxychlor**	**Aroclor 1260**	**Cadmium**	**Chromium**	**Lead**	**Nickel**	**Zinc**	**Diesel**	**Oil**
36-GS1-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150	---	---	---	---	---	---	---	---
36-GS2-0.5'	02/27/2013	< 40	< 200	< 200	< 400	< 300	< 300	< 300	< 300	---	---	---	---	---	---	---	---
36-GS3-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150	---	---	---	---	---	---	---	---
36-GS4-0.6'	02/27/2013	< 20	< 100	< 100	< 200	< 150	180	< 150	< 150	---	---	---	---	---	---	---	---
36-GS5-0.5'	02/27/2013	< 40	< 200	< 200	< 400	< 300	< 300	< 300	< 300	---	---	---	---	---	---	---	---
36-GS6-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	430	610	< 150	---	---	---	---	---	---	---	---
36-GS7-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150	---	---	---	---	---	---	---	---
36-GS8-0.5'	02/27/2013	< 20	**530**	< 100	< 200	< 150	1,000	1,300	< 150	---	---	---	---	---	---	---	---
36-GS8-1.5'	03/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150	---	---	---	---	---	---	---	---
36-GS9-0.5'	02/27/2013	< 20	**290**	< 100	< 200	< 150	430	< 150	< 150	< 20	---	---	---	---	---	---	---
36-GS10-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	270	< 150	< 150	< 20	---	---	---	---	---	---	---
36-GS11-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	310	230	< 150	< 20	---	---	---	---	---	---	---
36-GS12-0.5'	02/27/2013	< 20	**310**	< 100	< 200	180	850	380	< 150	**640**	---	---	---	---	---	---	---
36-GS12-1.5'	03/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150	< 20	---	---	---	---	---	---	---
36-GS13-0.5'	02/27/2013	< 20	**610**	< 100	< 200	< 150	650	590	< 150	< 20	---	---	---	---	---	---	---
36-GS13-1.5'	03/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150	---	---	---	---	---	---	---	---
36-GS14-0.5'	02/27/2013	45	**1,200**	110	< 200	< 150	1,300	1,400	260	**1,400**	---	---	---	---	---	---	---
36-GS14-1.5'	03/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150	< 20	---	---	---	---	---	---	---
36-GS15-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	320	170	< 150	< 20	---	---	---	---	---	---	---
36-GS16-0.5'	02/27/2013	< 20	220	< 100	< 200	< 150	1,400	610	< 150	**1,200**	< 1.0	100	21	39	120	< 1.0	14
36-GS16-1.5'	03/27/2013	---	---	---	---	---	---	---	---	< 20	---	---	---	---	---	---	---
36-GS17-0.5'	02/27/2013	< 20	110	< 100	< 200	< 150	240	< 150	< 150	< 20	---	---	---	---	---	---	---
36-GS18-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 150	< 20	---	---	---	---	---	---	---
36-GS19-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	310	220	< 150	---	---	---	---	---	---	---	---
36-GS20-0.5'	02/27/2013	< 20	< 100	< 100	< 200	< 150	160	< 150	< 150	---	---	---	---	---	---	---	---
36-GS21-0.5'	03/27/2013	---	---	---	---	---	---	---	---	< 20	---	---	---	---	---	---	---
36-GS22-0.5'	03/27/2013	---	---	---	---	---	---	---	---	< 20	---	---	---	---	---	---	---
36-GS23-0.5'	03/27/2013	---	---	---	---	---	---	---	---	< 20	---	---	---	---	---	---	---
36-GS24-0.5'	03/27/2013	---	---	---	---	---	---	---	---	< 20	---	---	---	---	---	---	---
36-GS25-0.5'	03/27/2013	---	---	---	---	---	---	---	---	< 20	---	---	---	---	---	---	---
RSL		77	270	nv	1,600	2,000	1,400	1,700	310,000	220	70	120,000	400	1,500	23,000	nv	nv
TTLC		nv	nv	nv	2,500	1,000	1,000	1,000	100,000	50,000	100	2,500	1,000	2,000	5,000	nv	nv
CHHSL		nv	nv	nv	430	2,300	1,600	1,600	340,000	89	1.7	100,000	80	1,600	23,000	nv	nv
ESL		nv	nv	nv	440	2,400	1,700	1,700	390,000	220	1.2	750	80	150	600	100	500

Notes:

See laboratory analytical data sheets for list of compounds and reporting limits. **Results in BOLD exceed agency screening criteria.**

CAM California Assessment Manual
mg/Kg milligrams per kilograms or parts per million (ppm).
µg/Kg micrograms per kilograms or parts per billion (ppb).
--- Not analyzed.
CHHSL California Human Health Screening Level, Office of Environmental Health Hazard Assessment, Table 1, Residential Soil, September 2010. Soil screening numbers based on total exposure to contaminated soil: inhalation, ingestion, dermal absorption.
ESL Environmental Screening Level, RWQCB - San Francisco Region, Table A-1, Direct Exposure, Human Health, Shallow Soil Screening Levels, Residential Land Use, May 2013
nv no value.
TPH Total Petroleum Hydrocarbons
TTLC Total Threshold Limit Concentrations, Title 22; limit for off-site disposal as a hazardous waste.
RSL EPA Regional Screening Levels, Summary Table, Residential Soil, May 2013
O.C. Organochlorine

TABLE 3
Analytical Results Summary - Surface Soil Samples
24137 Eden Avenue
Hayward, California

		O.C. Pesticides 8081A (µg/Kg)									CAM Metals by EPA Method 6010 (mg/Kg)					TPH 8015M (mg/Kg)	
Sample ID	**Date**	**alpha-BHC**	**beta-BHC**	**delta-BHC**	**Chlordane**	**4,4´-DDD**	**4,4´-DDE**	**4,4´-DDT**	**Dieldrin**	**Heptachlor epoxide**	**Cadmium**	**Chromium**	**Lead**	**Nickel**	**Zinc**	**Diesel**	**Oil**
37-GS1-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS2-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS3-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS4-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS5-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS6-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS7-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS8-1.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	< 1.0	42	< 10	43	51	< 1.0	89
37-GS9-0.5'	2/26/2013	< 20	< 100	< 100	340	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS10-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS11-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS12-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS13-0.5'	2/26/2013	< 20	< 100	< 100	200	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS14-0.5'	2/26/2013	< 20	< 100	< 100	260	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS15-0.5'	2/26/2013	< 20	< 100	< 100	**460**	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS15-1.5'	9/30/2013	< 20	< 100	< 100	210	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS16-0.5'	9/30/2013	< 20	< 100	< 100	**1,700**	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS17-0.5'	9/30/2013	< 20	< 100	< 100	**1,100**	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS18-0.5'	9/30/2013	< 20	< 100	< 100	**1,000**	< 150	< 150	< 150	< 10	< 20	---	---	---	---	---	---	---
37-GS19-0.5'	10/10/2013	< 17	< 17	< 17	**930**	< 33	79	120	**52**	**22**	---	---	---	---	---	---	---
37-GS20-0.5'	10/10/2013	< 17	< 17	< 17	120	< 33	< 33	< 33	< 30	< 17	---	---	---	---	---	---	---
37-GS21-0.5'	10/10/2013	< 17	< 17	< 17	150	< 33	< 33	< 33	< 30	< 17	---	---	---	---	---	---	---
37-GS22-0.5'	10/10/2013	< 17	< 17	< 17	< 33	< 33	< 33	< 33	< 30	< 17	---	---	---	---	---	---	---
RSL		77	270	nv	1,600	2,000	1,400	1,700	30	53	70	120,000	400	1,500	23,000	nv	nv
TTLC		nv	nv	nv	2,500	1,000	1,000	1,000	8,000	nv	100	2,500	1,000	2,000	5,000	nv	nv
CHHSL		nv	nv	nv	430	2,300	1,600	1,600	35	nv	1.7	100,000	80	1,600	23,000	nv	nv
ESL		nv	nv	nv	440	2,400	1,700	1,700	2.3	14	1.2	750	80	150	600	100	500

Notes:

See laboratory analytical data sheets for list of compounds and reporting limits; **Results in BOLD exceed agency screening criteria.**

CAM California Assessment Manual
mg/Kg milligrams per kilograms or parts per million (ppm).
µg/Kg micrograms per kilograms or parts per billion (ppb).
--- Not analyzed.

CHHSL California Human Health Screening Level, Office of Environmental Health Hazard Assessment, Table 1, Residential Soil, September 2010. Soil screening numbers based on total exposure to contaminated soil: inhalation, ingestion, dermal absorption.
ESL Environmental Screening Level, RWQCB - San Francisco Region, Table A-1, Direct Exposure, Human Health, Shallow Soil Screening Levels, Residential Land Use, May 2013.
nv no value.
TPH Total Petroleum Hydrocarbons
TTLC Total Threshold Limit Concentrations, Title 22; limit for off-site disposal as a hazardous waste.
RSL EPA Regional Screening Levels, Summary Table, Residential Soil, May 2013

O.C. Organochlorine

TABLE 4
Analytical Results Summary - Disposal Profile Soil Samples
23836 Saklan Road
Hayward, California

		Pesticides (O.C.) 8081A (µg/Kg)												CAM Metals by EPA Method 6010 (mg/Kg)																		STLC		8015M (mg/Kg)		
Sample ID	Sample Date	alpha-BHC	beta-BHC	4,4´-DDD	4,4´-DDE	4,4´-DDT	Chlordane	delta-BHC	Dieldrin	gamma-BHC (Lindane)	Heptachlor epoxide	Methoxychlor	PCBs by EPA Method 8082A (µg/Kg)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Chromium	BTEX by 8260B (µg/Kg)	Gasoline	Diesel	Motor Oil
Pile 1	8/28/2013	< 17	99	< 33	230	180	< 33	< 17	< 30	< 17	< 17	< 170	ND	< 2.5	3.4	190	0.53	< 0.50	64	11	26	18	< 0.10	< 1.0	46	< 2.5	< 0.50	< 1.0	45	81	NA	ND	< 0.20	< 1.0	23
Pile 2	8/28/2013	< 17	48	< 33	140	44	< 33	< 17	< 30	< 17	< 17	< 170	ND	< 2.5	3.8	160	< 0.50	0.52	61	10	28	44	< 0.10	< 1.0	41	< 2.5	< 0.50	< 1.0	44	100	0.87	ND	< 0.20	< 1.0	26
Pile 3-1	8/28/2013	< 17	43	< 33	120	81	< 33	< 17	< 30	< 17	< 17	< 170	ND	< 2.5	3.4	160	< 0.50	0.63	58	9.5	27	30	< 0.10	< 1.0	38	< 2.5	< 0.50	< 1.0	42	110	0.65	ND	< 0.20	< 1.0	39
Pile 3-2	8/28/2013	< 17	110	< 33	260	200	< 33	< 17	< 30	< 17	< 17	< 170	ND	< 2.5	3.5	150	< 0.50	0.60	72	9.7	28	23	0.14	< 1.0	40	< 2.5	< 0.50	< 1.0	43	100	2.5	ND	< 0.20	< 1.0	29
TTLC		nv	nv	1,000	1,000	1,000	2,500	nv	8,000	400	nv	nv	---	500	500	10,000	75	100	2,500	8,000	2,500	1,000	20	3,500	2,000	100	500	700	2,400	5,000	500	---	nv	nv	nv
STLC		---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	5 (mg/L)	---	nv	nv	nv

Notes:

See laboratory analytical data sheets for list of compounds and reporting limits.

SGT Silica Gel Treatment (to remove naturally occuring lipids and fats that may cause false positive results).
mg/Kg milligrams per kilograms or parts per million (ppm).
µg/Kg micrograms per kilograms or parts per billion (ppb).
mg/L milligrams per liter
TTLC Total Threshold Limit Concentration, CCR, Title 22, Chapter 11, Article 3; limit for off-site disposal as a hazardous waste.
STLC SolubleTotal Threshold Limit Concentration, CCR, Title 22, Chapter 11, Article 3; limit for off-site disposal as a hazardous waste.
ND Non Detected
NA Not Analyzed
nv no value

TABLE 5
Analytical Results Summary - Confirmation Soil Samples
23836 Saklan Road
Hayward, California

		O.C. Pesticides 8081A (µg/Kg)								PCBs by EPA Method 8082A (µg/Kg)
Sample ID	**Date**	**alpha-BHC**	**beta-BHC**	**delta-BHC**	**gamma-BHC (Lindane)**	**Chlordane**	**4,4´-DDD**	**4,4´-DDE**	**4,4´-DDT**	**Aroclor 1260**
F-1	8/28/2013	< 17	< 17	< 17	< 17	< 33	< 33	< 33	< 33	< 20
F-2	8/28/2013	< 17	54	< 17	< 17	< 33	< 33	65	41	< 20
F-3	8/28/2013	< 17	< 17	< 17	< 17	< 33	< 33	55	< 33	---
F-4	8/28/2013	< 17	73	< 17	< 17	< 33	< 33	< 33	< 33	< 20
F-5	8/28/2013	< 17	< 17	< 17	< 17	< 33	< 33	< 33	< 33	---
F-6	8/28/2013	< 17	< 17	< 17	< 17	< 33	< 33	< 33	< 33	---
SW-1	8/28/2013	< 17	96	< 17	< 17	< 33	< 33	140	69	< 20
SW-2	8/28/2013	< 17	18	< 17	< 17	< 33	< 33	550	270	< 20
SW-3	8/28/2013	< 17	< 17	< 17	< 17	< 33	< 33	65	43	< 20
SW-4	8/28/2013	< 17	190	< 17	< 17	< 33	< 33	470	350	< 20
SW-5	8/28/2013	< 17	**400**	< 17	< 17	< 33	< 33	400	360	< 20
SW-6	8/28/2013	< 17	100	< 17	< 17	< 33	< 33	33	< 33	< 20
SW-7	8/28/2013	< 17	**440**	< 17	< 17	< 33	< 33	310	330	---
SW-8	8/28/2013	< 17	170	< 17	< 17	< 33	< 33	560	330	< 20
SW-9	8/28/2013	< 17	**340**	< 17	26	< 33	150	1,300	960	< 20
SW-10	8/28/2013	< 17	190	< 17	< 17	< 33	40	980	720	< 20
SW-11	8/28/2013	< 17	< 17	< 17	< 17	< 33	< 33	33	< 33	---
SW-12	8/28/2013	< 17	25	< 17	< 17	< 33	< 33	82	< 33	---
SW-13	8/28/2013	< 17	< 17	< 17	< 17	< 33	< 33	110	56	---
SW-14	8/28/2013	< 17	28	< 17	< 17	< 33	< 33	190	100	---
SW-15	8/28/2013	< 17	83	< 17	< 17	< 33	< 33	190	50	---
SW-16	8/28/2013	< 17	< 17	< 17	< 17	< 33	< 33	< 33	< 33	---
SW-17	9/10/2013	< 20	**380**	< 100	< 100	< 200	< 150	240	240	---
SW-18	9/10/2013	< 20	180	< 100	< 100	< 200	< 150	900	780	---
SO-SW-5-5'	9/10/2013	< 20	**510**	< 100	< 100	< 200	< 150	570	630	---
SO-SW-5-10'	9/10/2013	< 40	**300**	< 200	< 200	< 400	< 300	430	350	---
SO-SW-5-15'	9/30/2013	< 20	240	< 100	< 100	< 200	1,200	840	**8,000**	---
SO-SW-5-20'	9/30/2013	< 20	< 100	230	< 100	< 200	< 150	1,200	730	---
SO-SW-7-5'	9/10/2013	< 20	190	< 100	< 100	< 200	< 150	< 150	< 150	---
SO-SW-9-5'	9/10/2013	< 20	**390**	< 100	< 100	< 200	< 150	170	160	---
SO-SW-9-10'	9/30/2013	< 20	< 100	< 100	< 100	< 200	< 150	< 150	< 150	---
SO-SW-17-5'	9/10/2013	< 40	< 200	< 200	< 200	< 400	< 300	540	320	---
RSL		77	270	nv	520	1,600	2,000	1,400	1,700	220
TTLC		nv	nv	nv	400	2,500	1,000	1,000	1,000	50,000
CHHSL		nv	nv	nv	500	430	2,300	1,600	1,600	89
ESL		nv	nv	nv	21,000	440	2,400	1,700	1,700	220

Notes:

See laboratory analytical data sheets for list of compounds and reporting limits; **Results in BOLD exceed agency screening criteria.**

mg/Kg milligrams per kilograms or parts per million (ppm).

µg/Kg micrograms per kilograms or parts per billion (ppb).

--- Not analyzed.

CHHSL California Human Health Screening Level, Office of Environmental Health Hazard Assessment, Table 1, Residential Soil, September 2010. Soil screening numbers based on total exp

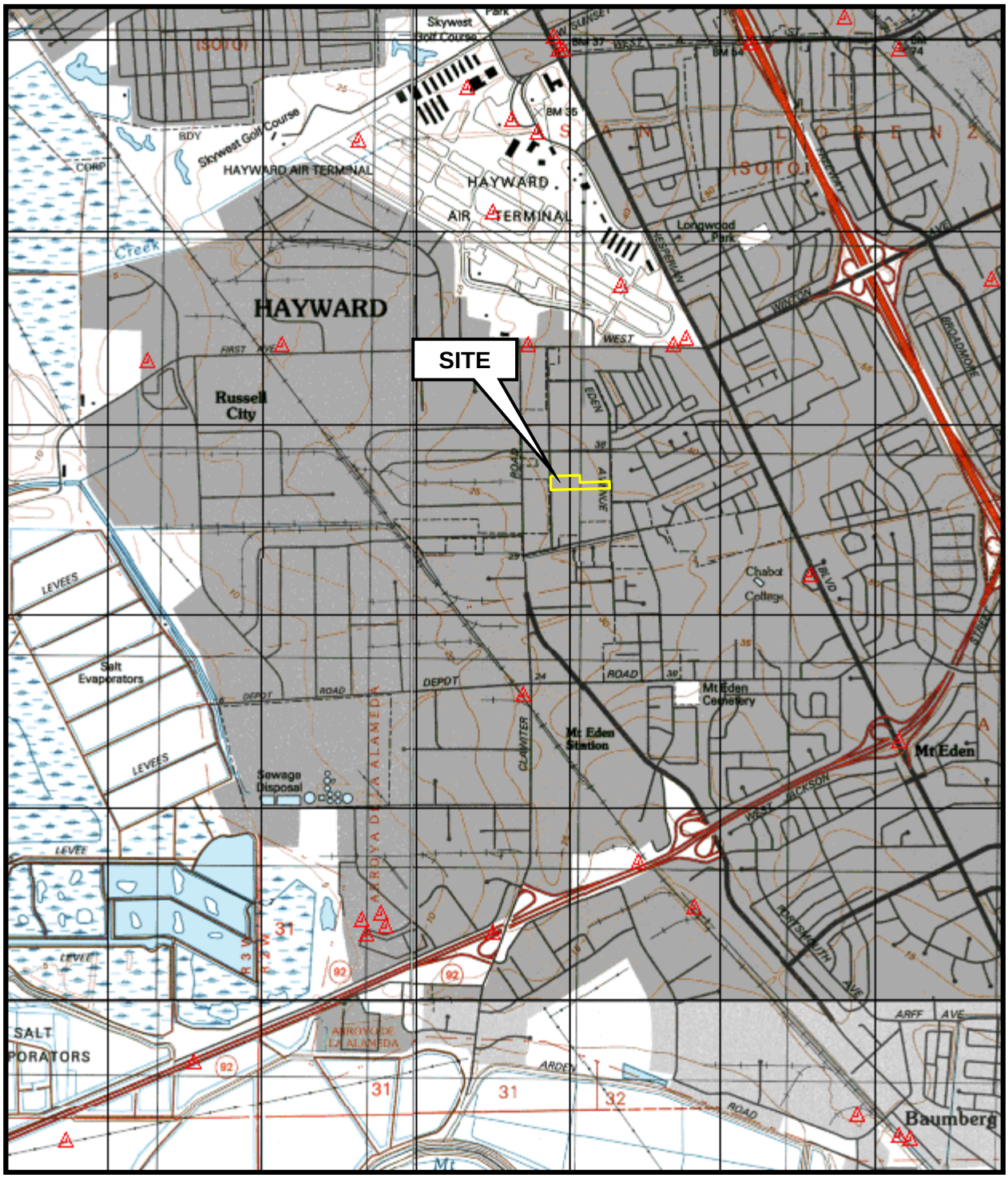
ESL Environmental Screening Level, RWQCB - San Francisco Region, Table A-1, Direct Exposure, Human Health, Shallow Soil Screening Levels, Residential Land Use, May 2013

nv no value.

TTLC Total Threshold Limit Concentrations, Title 22; limit for off-site disposal as a hazardous waste.

RSL EPA Regional Screening Levels, Summary Table, Residential Soil, May 2013

P:\PROJECTS\Valley Oak Partners\Hayward (117-7059010.01)\Soil Dig & Haul\Report\Figures 8.8x11.ppt



SOURCE: ***HAYWARD, CALIFORNIA 7.5-MINUTE QUADRANGLE, 1981.***

N

0 feet 2,000

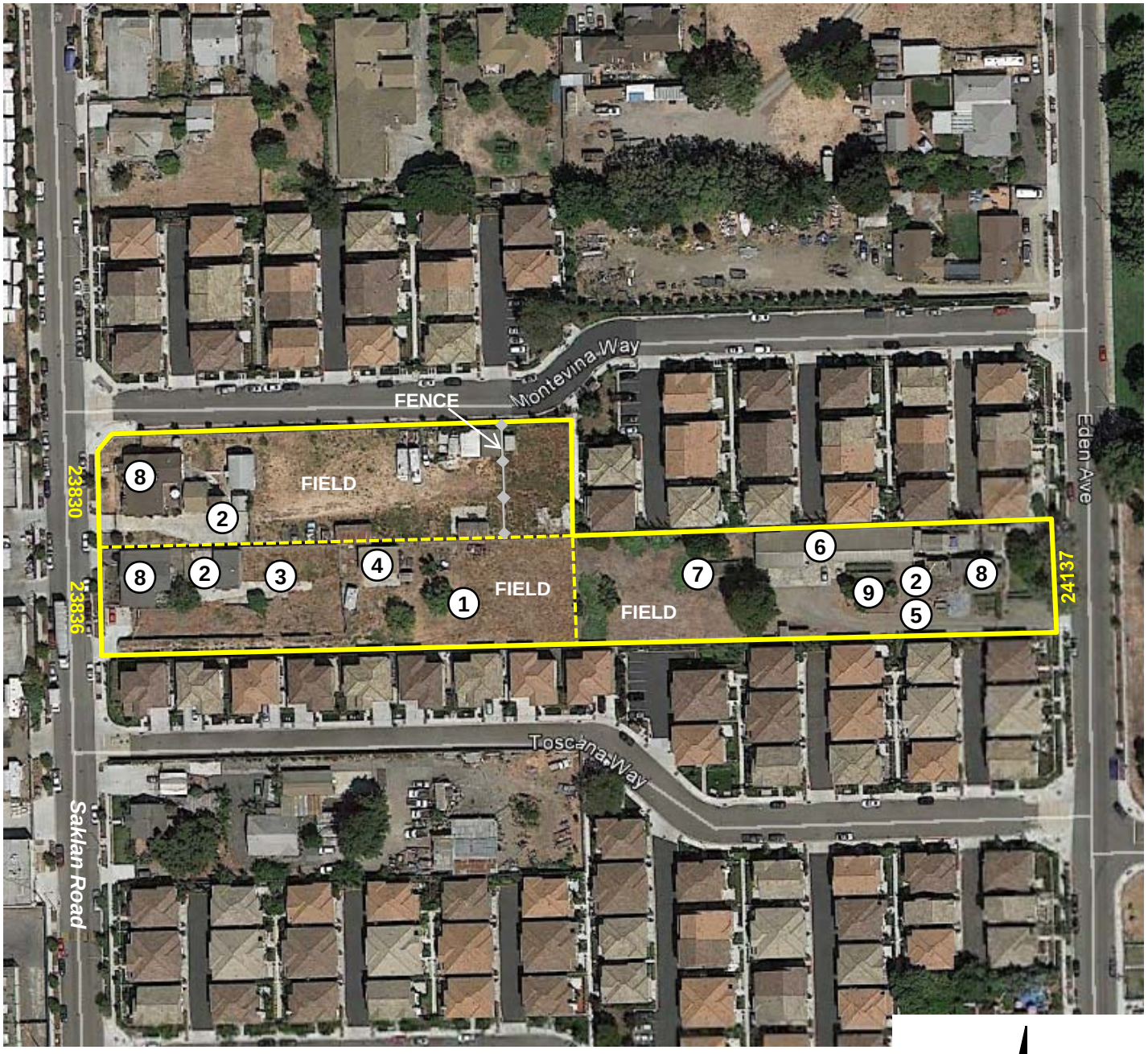
TITLE:	**Site Location Map**
LOCATION:	**23830 & 23836 Saklan Road and 24137 Eden Avenue** **Hayward, California**

TETRA TECH

CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/5/2013

FIGURE: **1**

P:\PROJECTS\Valley Oak Partners\Hayward (117-7059010.01)\Soil Dig & Haul\Report\Figures 8.8x11.ppt



Legend:

① Agriculture Well
② Water Well
③ Septic Location (approx.)
④ Garage/Workshop
⑤ Sump Feature, Possible Septic Tank
⑥ Garage/Office Structure
⑦ Garden Shed/Landscape Equipment Storage
⑧ House
⑨ Garden

N

0 feet 180

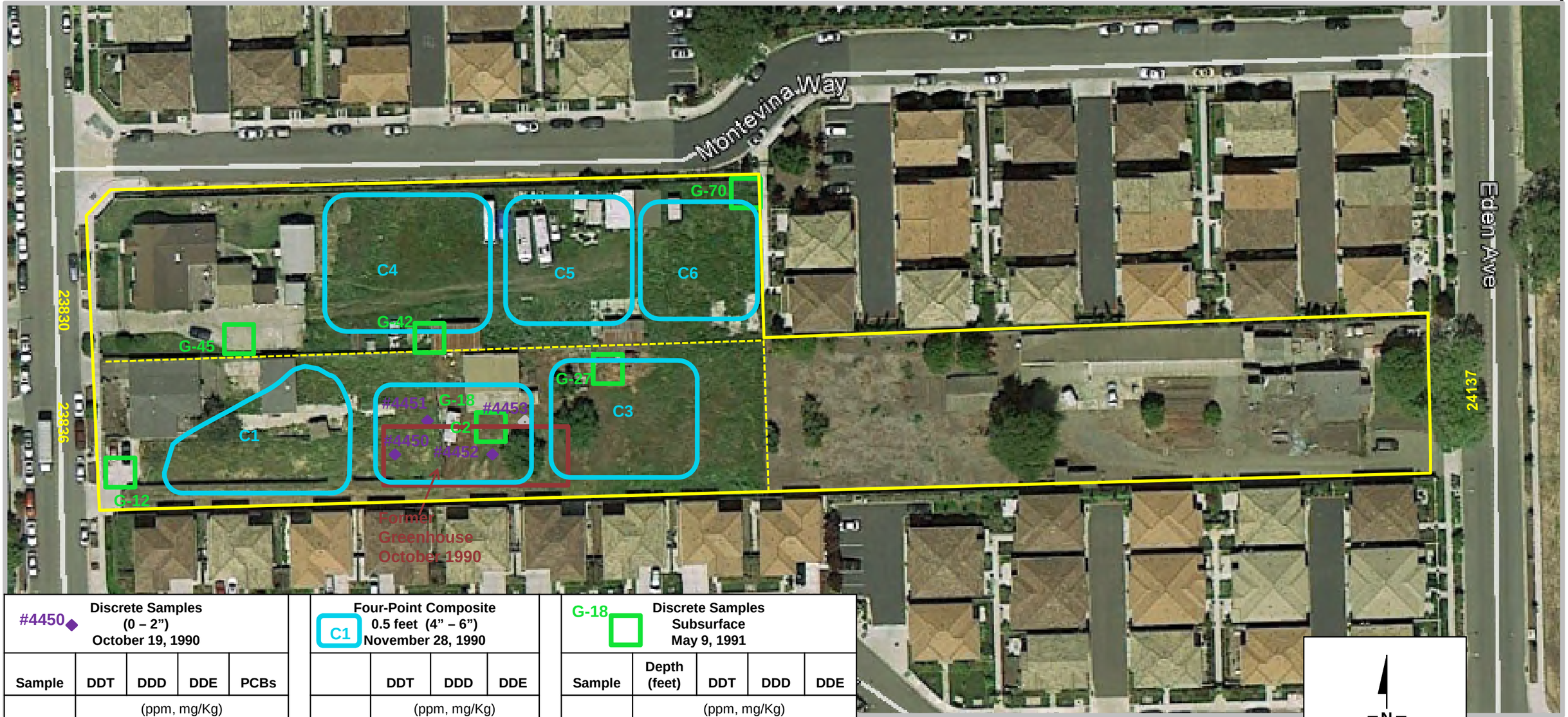
TITLE: **Plot Plan**

LOCATION: **23830 & 23836 Saklan Road and 24137 Eden Avenue**
Hayward, California

TETRA TECH

CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/5/2013

FIGURE: **2**



#4450 ◆ Discrete Samples (0 – 2") October 19, 1990

Sample	DDT	DDD	DDE	PCBs
	(ppm, mg/Kg)			
4450	**2.1**	0.25	1.1	ND
4451	1.4	0.24	1.3	ND
4452	**5.7**	0.84	1.5	**19**
4453	**3.1**	0.46	1.5	ND
RSL	**1.7**	**2.0**	**1.4**	**0.22**
ESL	**1.7**	**2.4**	**1.7**	**0.22**

C1 Four-Point Composite 0.5 feet (4" – 6") November 28, 1990

	DDT	DDD	DDE
	(ppm, mg/Kg)		
C1	0.55	0.057	0.23
C2	**6.5**	0.30	**1.9**
C3	1.4	0.63	0.12
C4	**5.6**	0.59	0.83
C5	0.11	ND	0.12
C6	0.64	0.74	0.22

G-18 □ Discrete Samples Subsurface May 9, 1991

Sample	Depth (feet)	DDT	DDD	DDE
	(ppm, mg/Kg)			
G-12	1 – 1.5	ND	ND	ND
G-18	1 – 1.5	ND	0.03	0.07
G-27	1 – 1.5	0.16	0.05	0.06
G-42	1 – 1.5	ND	ND	ND
G-45	1 – 1.5	ND	ND	ND
G-70	1 – 1.5	0.2	0.07	0.01
G-18A	2 – 2.5	ND	ND	ND
G-27A	2 – 2.5	ND	ND	ND
G-70A	2 – 2.5	0.03	0.003	0.01

TITLE: **Former Soil Sample Locations 1990 - 1991**

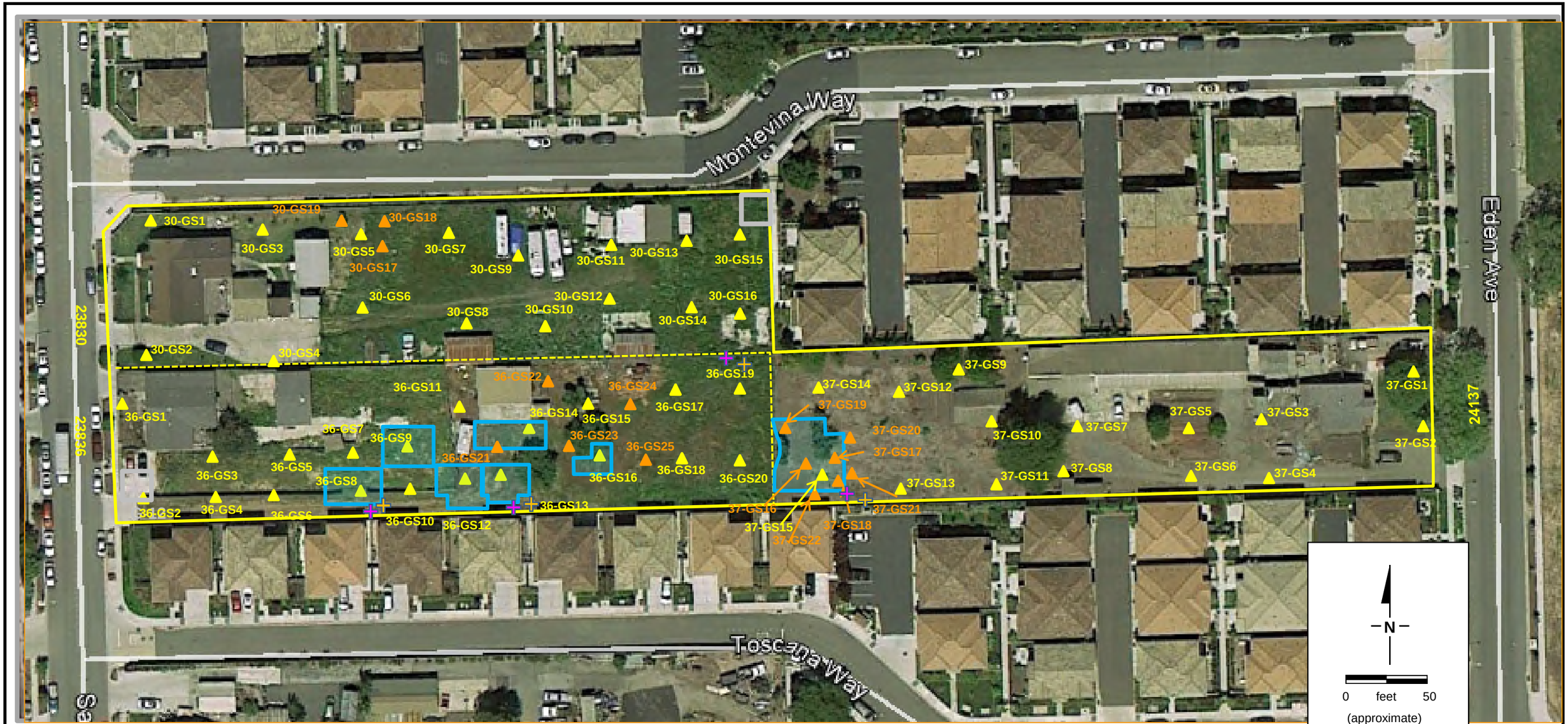
LOCATION: **23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California**

TETRA TECH

CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/4/2013

FIGURE: 3

P:\PROJECTS\Valley Oak Partners\Hayward (117-7059010.01)\Soil Dig & Haul\Report\Figures 11 x 17.pptx



Legend:

- Initial Surface soil sample location (February 2013)
- Follow-up soil sample location (March – October 2013)
- Air Monitoring Station
- Dust Monitoring Station
- Soil Excavation Area

TITLE: **Overview of Excavation, Sampling and Air Monitoring Locations**

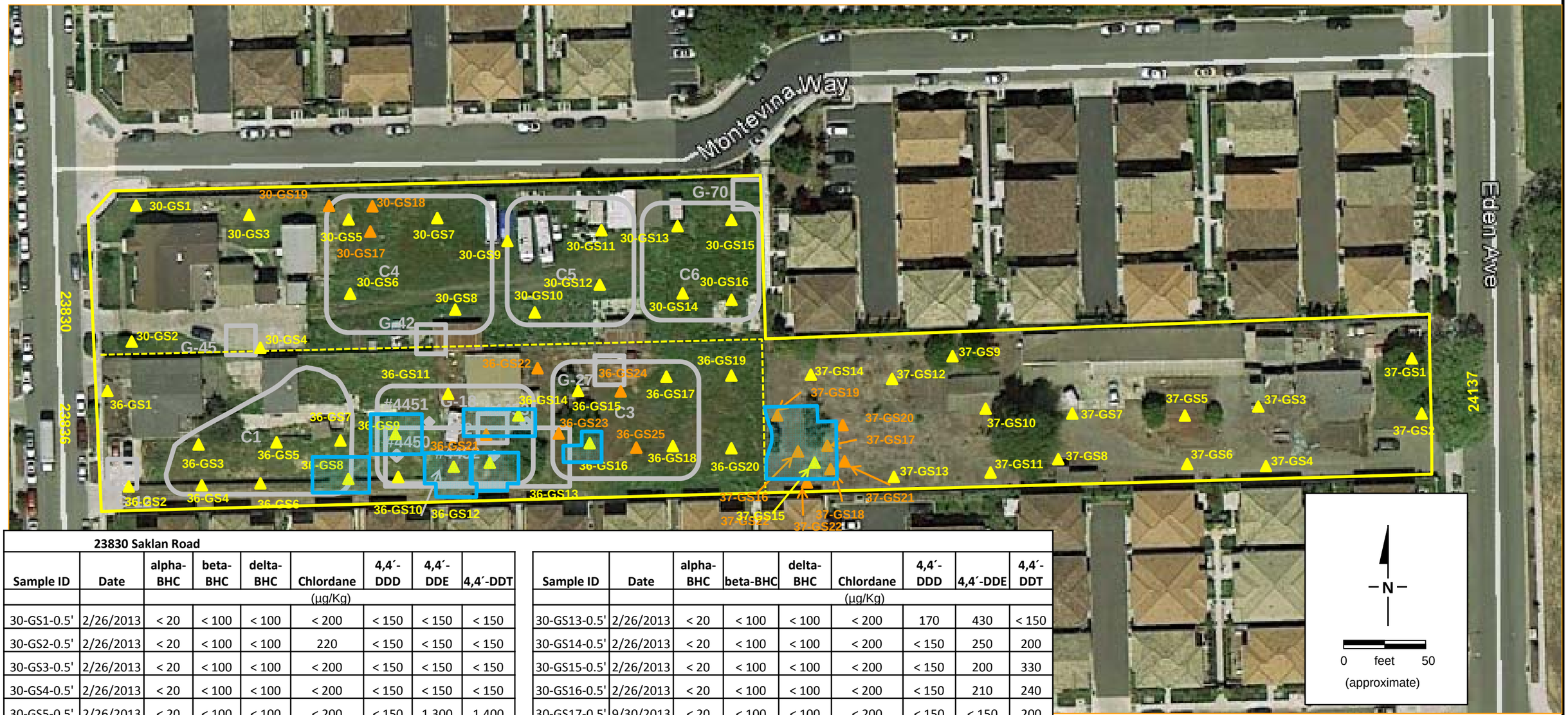
LOCATION: **23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California**

TETRA TECH

CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/4/2013

FIGURE: 4

P:\PROJECTS\Valley Oak Partners\Hayward (117-7059010.01)\Soil Dig & Haul\Report\Figures 11 x 17.pptx



23830 Saklan Road

Sample ID	Date	alpha-BHC	beta-BHC	delta-BHC	Chlordane	4,4´-DDD	4,4´-DDE	4,4´-DDT
		(µg/Kg)						
30-GS1-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS2-0.5'	2/26/2013	< 20	< 100	< 100	220	< 150	< 150	< 150
30-GS3-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS4-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS5-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	1,300	1,400
30-GS6-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	180	< 150
30-GS7-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS8-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS9-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS10-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS11-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	< 150	< 150
30-GS12-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	170	< 150
RSL		77	270	nv	1,600	2,000	1,400	1,700
TTLC		nv	nv	nv	2,500	1,000	1,000	1,000
CHHSL		nv	nv	nv	430	2,300	1,600	1,600
ESL		nv	nv	nv	440	2,400	1,700	1,700

Sample ID	Date	alpha-BHC	beta-BHC	delta-BHC	Chlordane	4,4´-DDD	4,4´-DDE	4,4´-DDT
		(µg/Kg)						
30-GS13-0.5'	2/26/2013	< 20	< 100	< 100	< 200	170	430	< 150
30-GS14-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	250	200
30-GS15-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	200	330
30-GS16-0.5'	2/26/2013	< 20	< 100	< 100	< 200	< 150	210	240
30-GS17-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	< 150	200
30-GS18-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	570	690
30-GS19-0.5'	9/30/2013	< 20	< 100	< 100	< 200	< 150	< 150	160

Notes:
nv = no value
NA = Not Analyzed

Legend:
- Initial Surface soil sample location (February 2013)
- Follow-up soil sample location (September – October 2013)
- Soil Excavation Area

TITLE: **23830 Saklan Road Soil Sample Results**

LOCATION: **23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California**

TETRA TECH

CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/4/2013

FIGURE: 5

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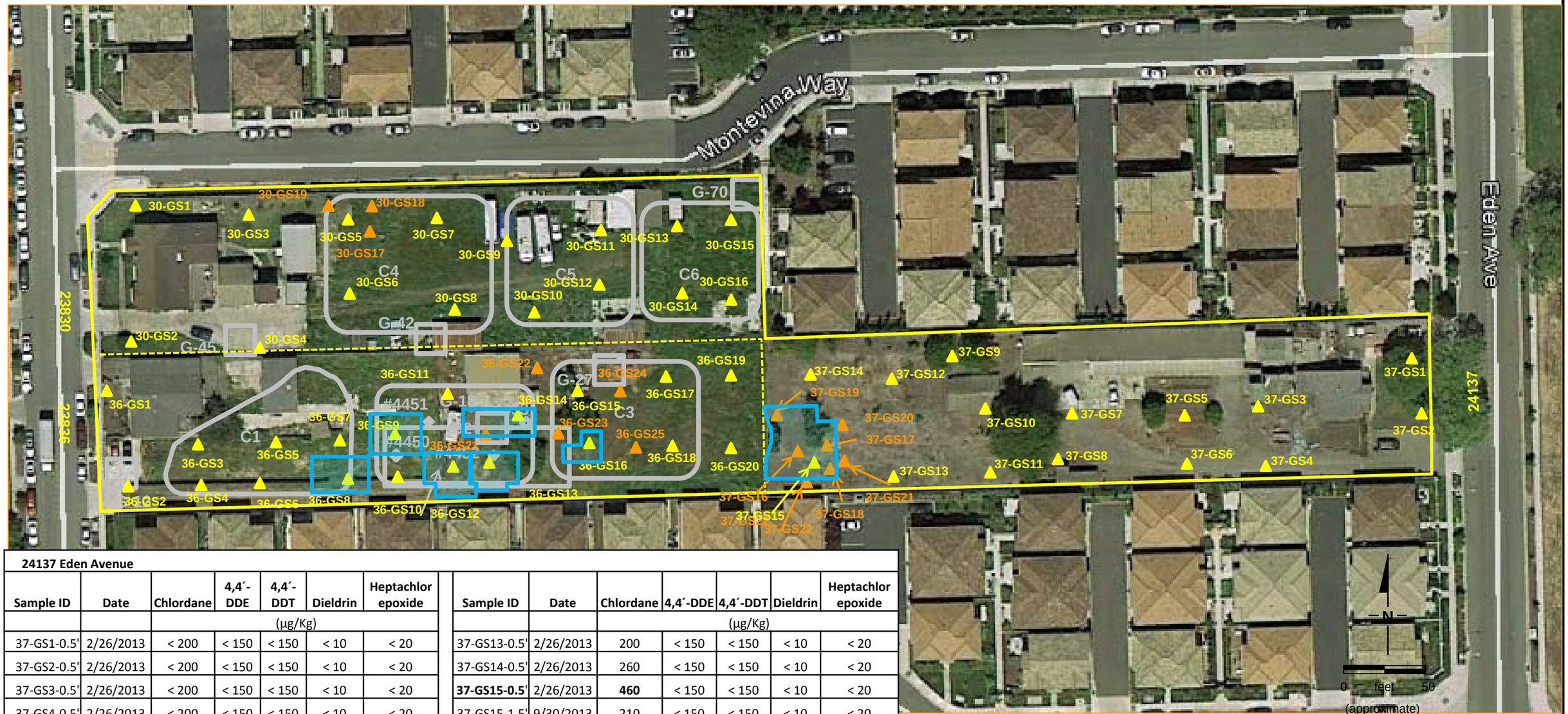

24137 Eden Avenue

Sample ID	Date	Chlordane	4,4´-DDE	4,4´-DDT	Dieldrin	Heptachlor epoxide
		(µg/Kg)				
37-GS1-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS2-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS3-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS4-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS5-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS6-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS7-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS8-1.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS9-0.5'	2/26/2013	340	< 150	< 150	< 10	< 20
37-GS10-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS11-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
37-GS12-0.5'	2/26/2013	< 200	< 150	< 150	< 10	< 20
RSL		1,600	1,400	1,700	30	53
TTLC		2,500	1,000	1,000	8,000	nv
CHHSL		430	1,600	1,600	35	nv
ESL		440	1,700	1,700	2.3	14

Sample ID	Date	Chlordane	4,4´-DDE	4,4´-DDT	Dieldrin	Heptachlor epoxide
		(µg/Kg)				
37-GS13-0.5'	2/26/2013	200	< 150	< 150	< 10	< 20
37-GS14-0.5'	2/26/2013	260	< 150	< 150	< 10	< 20
37-GS15-0.5'	2/26/2013	**460**	< 150	< 150	< 10	< 20
37-GS15-1.5'	9/30/2013	210	< 150	< 150	< 10	< 20
37-GS16-0.5'	9/30/2013	**1,700**	< 150	< 150	< 10	< 20
37-GS17-0.5'	9/30/2013	**1,100**	< 150	< 150	< 10	< 20
37-GS18-0.5'	9/30/2013	**1,000**	< 150	< 150	< 10	< 20
37-GS19-0.5'	10/10/2013	**930**	79	120	**52**	**22**
37-GS20-0.5'	10/10/2013	120	< 33	< 33	< 30	< 17
37-GS21-0.5'	10/10/2013	150	< 33	< 33	< 30	< 17
37-GS22-0.5'	10/10/2013	< 33	< 33	< 33	< 30	< 17

Notes:
nv = no value
NA = Not Analyzed

Legend:
Initial Surface soil sample location (February 2013)
Follow-up soil sample location (September – October 2013)
Soil Excavation Area

TITLE: **24137 Eden Avenue Soil Sample Results**

LOCATION: **23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California**

TETRA TECH

CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/4/2013

FIGURE: 6

23836 Saklan Road								
Sample ID	**Sample Depth (ft)**	**alpha-BHC**	**beta-BHC**	**delta-BHC**	**DDD**	**DDE**	**DDT**	**PCBs - Aroclor 1260**
		(µg/Kg)						
36-GS1	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	--
36-GS2	0.5'	< 40	< 200	< 200	< 150	< 150	< 150	--
36-GS3	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	--
36-GS4	0.5'	< 20	< 100	< 100	< 150	180	< 150	--
36-GS4	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	--
36-GS6	0.5'	< 20	< 100	< 100	< 150	430	610	--
36-GS7	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	--
36-GS8	0.5'	< 20	**530**	< 100	< 150	1,000	1,300	--
36-GS8	1.5'	< 20	< 100	< 100	< 150	< 150	< 150	--
36-GS9	0.5'	< 20	**290**	< 100	< 150	430	< 150	< 20
36-GS10	0.5'	< 20	< 100	< 100	< 150	270	< 150	--
36-GS11	0.5'	< 20	< 100	< 100	< 150	310	230	--
36-GS12	0.5'	< 20	**310**	< 100	180	850	380	**640**
36-GS12	1.5'	< 20	< 100	< 100	< 150	< 150	< 150	< 20
36-GS13	0.5'	< 20	**610**	< 100	< 150	650	590	< 20
36-GS13	1.5'	< 20	< 100	< 100	< 150	< 150	< 150	--
36-GS14	0.5'	45	**1,200**	110	< 150	1,300	1,400	**1,400**
36-GS14	1.5'	< 20	< 100	< 100	< 150	< 150	< 150	< 20
RSL		77	270	nv	2,000	1,400	1,700	220
ESL		nv	nv	nv	2,400	1,700	1,700	220
TTLC		nv	nv	nv	1,000	1,000	1,000	50,000

Notes:

nv = no value

NA = Not Analyzed

Sample ID	**Sample Depth (ft)**	**alpha-BHC**	**beta-BHC**	**delta-BHC**	**DDD**	**DDE**	**DDT**	**PCBs - Aroclor 1260**
		(µg/Kg)						
36-GS15	0.5'	< 20	< 100	< 100	< 150	320	170	--
36-GS16	0.5'	< 20	220	< 100	< 150	1,400	610	**1,200**
36-GS16	1.5'	--	--	--	--	--	--	< 20
36-GS17	0.5'	< 20	110	< 100	< 150	240	< 150	--
36-GS18	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	< 20
36-GS19	0.5'	< 20	< 100	< 100	< 150	310	220	--
36-GS20	0.5'	< 20	< 100	< 100	< 150	< 150	< 150	--
36-GS21	0.5'	--	--	--	--	--	--	< 20
36-GS22	0.5'	--	--	--	--	--	--	< 20
36-GS23	0.5'	--	--	--	--	--	--	< 20
36-GS24	0.5'	--	--	--	--	--	--	< 20
36-GS25	0.5'	--	--	--	--	--	--	< 20
RSL		77	270	nv	2,000	1,400	1,700	220
ESL		nv	nv	nv	2,400	1,700	1,700	220
TTLC		nv	nv	nv	1,000	1,000	1,000	50,000

N

0 feet 30

(approximate)

Legend:

36-GS18 Initial and follow-up soil sample location (February/March 2013)

TITLE: **23836 Saklan Road Soil Sample Results, February / March 2013**

LOCATION: **23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California**

TETRA TECH

CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/4/2013

FIGURE: 7

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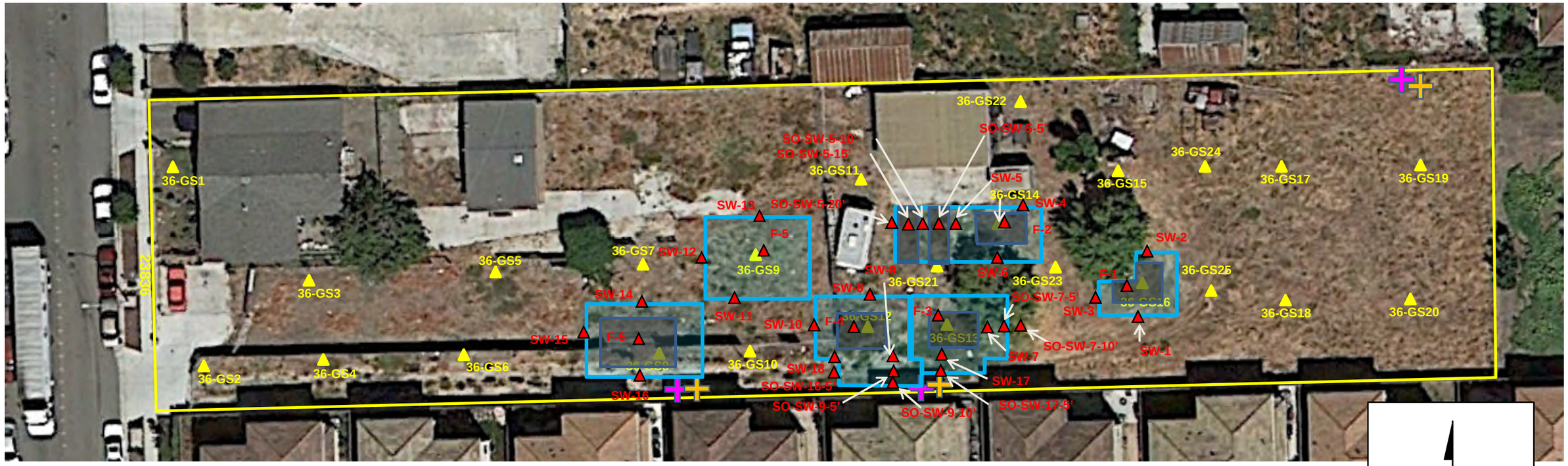

Sample ID	Date	beta-BHC	gamma-BHC (Lindane)	DDD	DDE	DDT	PCBs Aroclor 1260
		(µg/Kg)					
F-1	8/28/2013	< 17	< 17	< 33	< 33	< 33	< 20
F-2	8/28/2013	54	< 17	< 33	65	41	---
F-3	8/28/2013	< 17	< 17	< 33	55	< 33	< 20
F-4	8/28/2013	73	< 17	< 33	< 33	< 33	---
F-5	8/28/2013	< 17	< 17	< 33	< 33	< 33	< 20
F-6	8/28/2013	< 17	< 17	< 33	< 33	< 33	---
SW-1	8/28/2013	96	< 17	< 33	140	69	---
SW-2	8/28/2013	18	< 17	< 33	550	270	< 20
SW-3	8/28/2013	< 17	< 17	< 33	65	43	< 20
SW-4	8/28/2013	190	< 17	< 33	470	350	< 20
SW-5	8/28/2013	**400**	< 17	< 33	400	360	< 20
SO-SW-5-5'	9/10/2013	**510**	< 100	< 150	570	630	---
SO-SW-5-10'	9/10/2013	**300**	< 200	< 300	430	350	---
SO-SW-5-15’	9/30/2013	240	< 100	1,200	840	**8,000**	---
SO-SW-5-20’	9/30/2013	< 100	< 100	< 150	1,200	730	---
SW-6	8/28/2013	100	< 17	< 33	33	< 33	< 20
SW-7	8/28/2013	**440**	< 17	< 33	310	330	< 20
RSL		270	520	2,000	1,400	1,700	220
TTLC		nv	400	1,000	1,000	1,000	50,000
CHHSL		nv	500	2,300	1,600	1,600	89
ESL		nv	21,000	2,400	1,700	1,700	220

Sample ID	Date	beta-BHC	gamma-BHC (Lindane)	DDD	DDE	DDT	PCB Aroclor 1260
		(µg/Kg)					
SO-SW-7-5'	9/10/2013	190	< 100	< 150	< 150	< 150	---
SO-SW-7-10’	9/10/2013	NA	NA	NA	NA	NA	NA
SW-8	8/28/2013	170	< 17	< 33	560	330	---
SW-9	8/28/2013	**340**	26	150	1,300	960	< 20
SO-SW-9-5'	9/10/2013	**390**	< 100	< 150	170	160	---
SO-SW-9-10’	9/30/2013	< 100	< 100	< 150	< 150	< 150	---
SW-10	8/28/2013	190	< 17	40	980	720	< 20
SW-11	8/28/2013	< 17	< 17	< 33	33	< 33	---
SW-12	8/28/2013	25	< 17	< 33	82	< 33	---
SW-13	8/28/2013	< 17	< 17	< 33	110	56	---
SW-14	8/28/2013	28	< 17	< 33	190	100	---
SW-15	8/28/2013	83	< 17	< 33	190	50	---
SW-16	8/28/2013	< 17	< 17	< 33	< 33	< 33	---
SW-17	9/10/2013	**380**	< 100	< 150	240	240	---
SO-SW-17-5'	9/10/2013	< 200	< 200	< 300	540	320	---
SW-18	9/10/2013	180	< 100	< 150	900	780	---
SO-SW-18	9/10/2013	NA	NA	NA	NA	NA	NA
RSL		270	520	2,000	1,400	1,700	220
TTLC		nv	400	1,000	1,000	1,000	50,000
CHHSL		nv	500	2,300	1,600	1,600	89
ESL		nv	21,000	2,400	1,700	1,700	220

Notes:
nv = no value
NA = Not Analyzed

N

0 feet 30
(approximate)

Legend:

36-GS18 Initial and follow-up soil sample location (February/March 2013)

- Soil Excavation Area

- Excavation Area – Managed as Hazardous

- Confirmation Soil Sample Location
SW-1 to SW-16 Sidewall approx. 0.5’
F-1 to F-6 Floor Sample approx. 1.0’

- Air Monitoring Station

- Dust Monitoring Station

TITLE: **Soil Excavation Areas and Confirmation Sampling Results, 23836 Saklan Road**

LOCATION: **23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California**

TETRA TECH

CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/4/2013

FIGURE: 8

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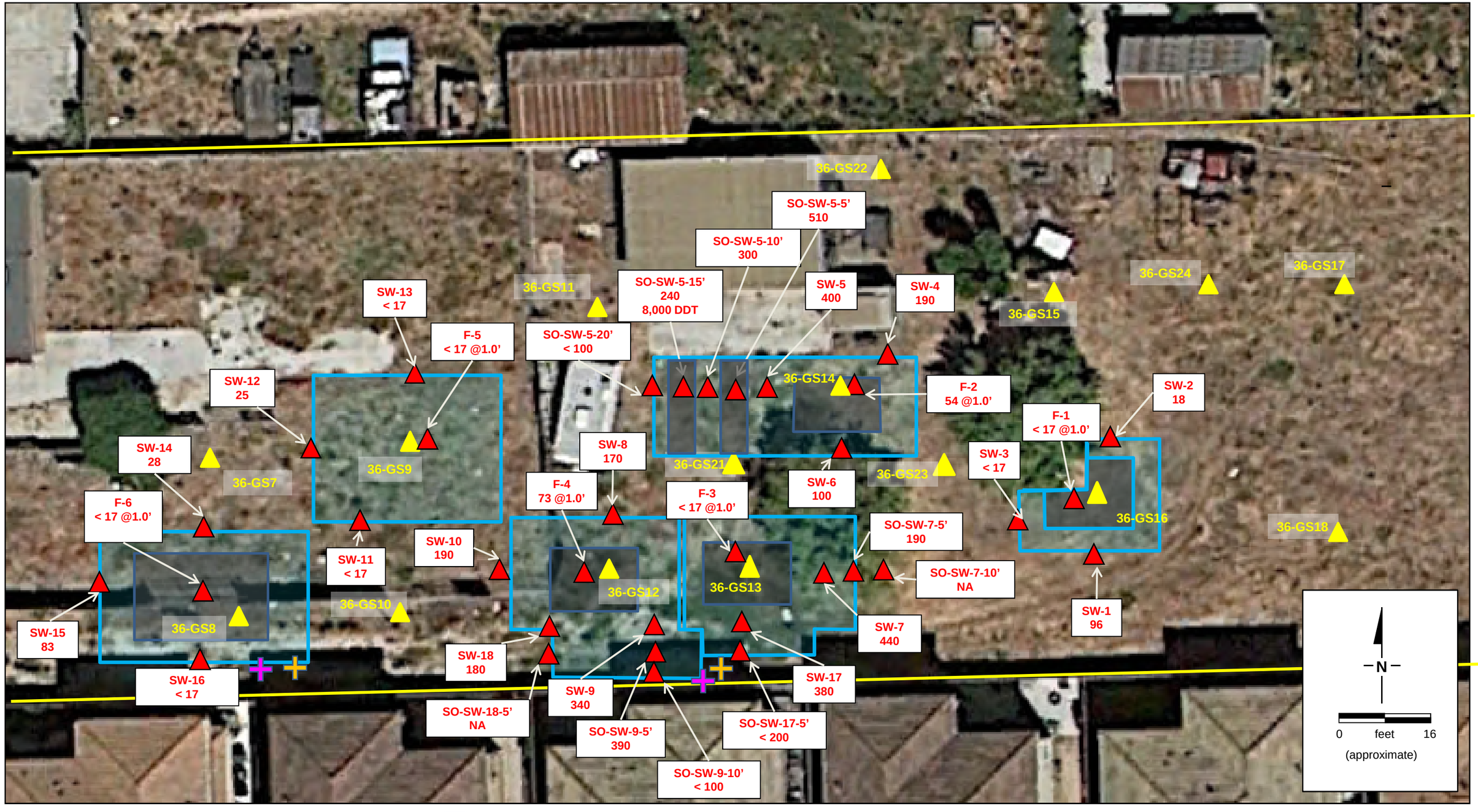

Legend:

36-GS18 - Initial and follow-up surface soil sample location (February/March 2013)

- Confirmation Soil Sample Location

SW-18 180 - Note: Values displayed for the pesticide Beta-BHC at 0.5' in depth, unless otherwise noted. Values in µg/Kg.

- Soil Excavation Area

- Soil Excavation Area – Managed as Hazardous

- Air Monitoring Station

- Dust Monitoring Station

TITLE:	**Close-up of 23836 Saklan Road Soil Excavation Areas, Showing Selected Sample Results**
LOCATION:	**23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California**

TETRA TECH

CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/4/2013

FIGURE: 9

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37-GS18 Initial surface soil sample location (February 2013)

37-GS22 Follow-up surface soil sample location (September – October 2013)

- Soil Excavation Area
- Air Monitoring Station
- Dust Monitoring Station

N

0 feet 16

(approximate)

TITLE: **Close-up of 24137 Eden Avenue Soil Excavation Areas**

LOCATION: **23830 & 23836 Saklan Road and 24137 Eden Avenue, Hayward, California**

TETRA TECH

CHECKED:	TC
DRAFTED:	KEM
FILE:	117-7059010
DATE:	11/4/2013

FIGURE: 10

ATTACHMENT A

Photo Log

PHOTO 1: Southern portion of Property prior to excavation, looking east. Roadway surface consisted of gravel and intermittent asphalt and concrete. Fence on left was removed prior to excavation.

PHOTO 2: 36-GS9 area prior to excavation, looking east.

PHOTO 3: Southwest corner of 36-GS12 excavation area, looking northeast. Fence was removed prior to excavation.

PHOTO 4: Southwest corner of 36-GS13 excavation area prior to excavation, looking northeast.

Photographic Log - Soil Dig & Haul

28386 Saklan Road / 24317 Eden Avenue, Hayward, California

August to October, 2013

TETRA TECH

PHOTO 5: Southeast corner of 36-GS14 area prior to excavation, looking northwest.

PHOTO 6: 36-GS16 area prior to excavation, looking north. Private well with pressure tank located under tree limbs.

PHOTO 7: Excavation of 36-GS8 area. Soil was placed in stockpile for disposal at Class 1 facility. View to south.

PHOTO 8: Transferring excavated soil from excavator to loader. Water application for dust control. Looking to the southwest.

Photographic Log - Soil Dig & Haul

28386 Saklan Road / 24317 Eden Avenue, Hayward, California

August to October, 2013

TETRA TECH

PHOTO 9: 36-GS8 after initial excavation, looking to the west.

PHOTO 10: View of 36-GS13 during initial excavation.

PHOTO 11: Pre-watering for dust control prior to excavation.

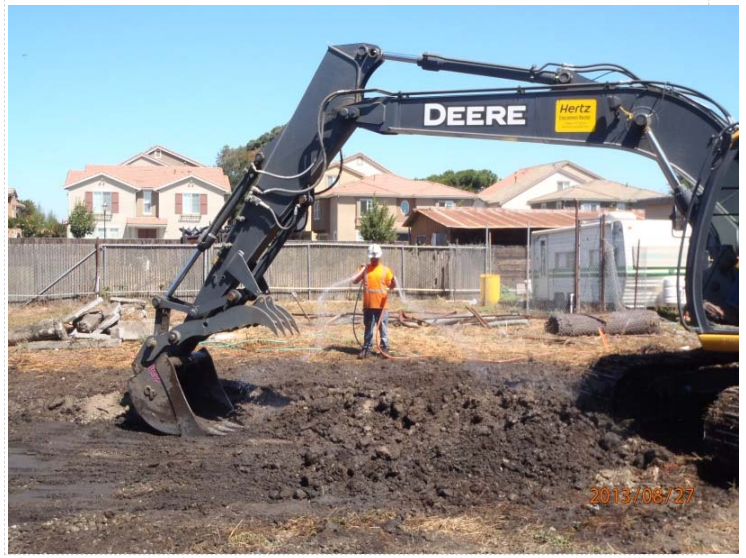


PHOTO 12: Applying water for dust control.

PHOTO 13: Application of water for dust control.

PHOTO 14: View of 36-GS12 area during excavation with water application for dust control.

PHOTO 15: "East" dust and air monitoring station, located on south fence line, looking to the southeast.

PHOTO 16: View of "West" dust and air monitoring station.

PHOTO 17: 36-GS8 after completion of excavation and confirmation sampling, looking to the west. Blue flags mark sampling locations.

PHOTO 18: 36-GS12 and 36-GS13 areas after completion of excavation and confirmation sampling, looking to northwest. Flags mark sampling locations.

PHOTO 19: 36-GS12 and 36-GS13 areas after completion of excavation and confirmation sampling, looking west. Flags mark sampling locations.

PHOTO 20: 36-GS14 areas after completion of excavation and confirmation sampling, looking northeast.

PHOTO 21: Sampling location SW-5, looking west.

PHOTO 22: View of completed excavation and confirmation sampling in 36-GS16 area, looking southwest.

PHOTO 23: View of completed excavation and confirmation sampling in 36-GS16 area, looking north.

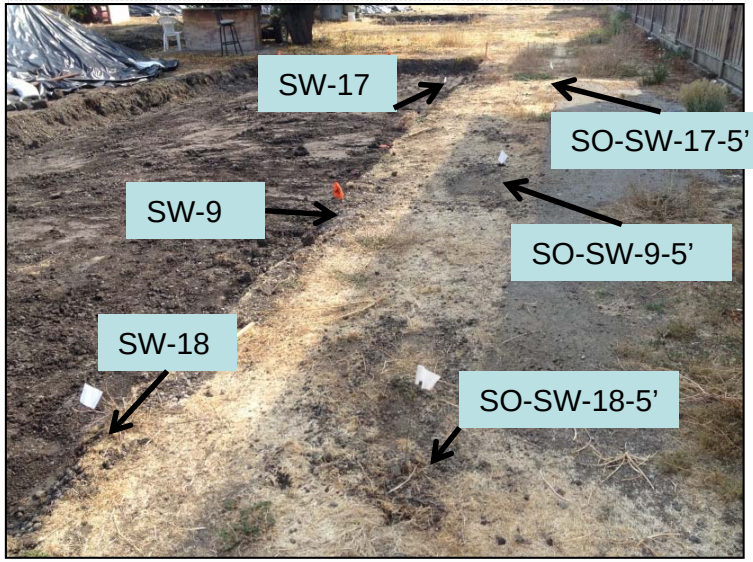


PHOTO 24: Additional confirmation sampling locations in southern portion of Property, September 10, 2013, looking to the east.

PHOTO 25: Additional confirmation sampling locations east of sample SW-7, completed on September 10, 2013, looking to the north.

PHOTO 26: Additional confirmation sampling locations west of sample SW-5, completed on September 10 and 30, 2013, looking to the east.

PHOTO 27: Sampling locations in the southwest portion of 24137 Eden Avenue, completed September 30, 2013, looking to the west.

PHOTO 28: Step-out sampling locations near sampling location 30-GS5, completed September 30, 2013, looking to the west.

PHOTO 29: Sampling locations in the southwest portion of 24137 Eden Avenue completed October 10, 2013, looking to the west.

PHOTO 30: Sampling locations in the southwest portion of 24137 Eden Avenue completed October 10, 2013, looking to the west.

PHOTO 31: Additional excavation south of SW-9 on October 21, 2013, looking to the south. Water application for dust control.

PHOTO 32: Additional excavation south of SW-17 on October 21, 2013, looking to the southeast. Water application for dust control.

PHOTO 33: Additional excavation west of SW-5 on October 21, 2013, looking to the southeast. Water application for dust control.

PHOTO 34: Removing bamboo in preparation for excavation in the southwest portion of 24137 Eden Ave.

PHOTO 35: Dust control during stockpiling . Soil excavated from the southwest portion of 24137 Eden Avenue, October 21, 2013, looking to the northwest.

PHOTO 36: Final excavation in the 36-GS12 area on October 21, 2013, looking east.

PHOTO 37: Final soil excavation area west of SW-5 on October 21, 2013, looking to the west.

PHOTO 38: Final soil excavation area in the southwest portion of 24173 Eden Avenue property. Fence removed for truck access.

ATTACHMENT B

Additional Phase II Investigation Laboratory Analytical Data Sheets and Chain of Custody Forms

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 03, 2013

CLS Work Order #: CWI1127
COC #:

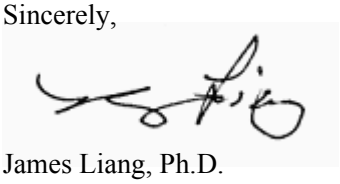
Tim Costello
Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project Name: 23830 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 09/30/13 15:35. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

10/03/13 16:53

Tetra Tech Geo	Project: 23830 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWI1127**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

1 of 1

CLS - Labs CHAIN OF CUSTODY CLS ID No.: CWI1127 LOG NO. WEB FORM

REPORT TO:
NAME AND ADDRESS: Tetra Tech GEO
2969 Prospect Park Drive
Rancho Cordova, CA
PROJECT MANAGER: Tim Costello PHONE #: (916)853-1800
PROJECT NAME: 23830 Saklan
SAMPLED BY: Garrett Kuhl
JOB DESCRIPTION: Grab Samples
SITE LOCATION: Hayward

CLIENT JOB NUMBER: 117-7059010.01
DESTINATION LABORATORY: X CLS (916) 638-7301, 3249 FITZGERALD RD, RANCHO CORDOVA, CA 95742
☐ OTHER

GEOTRACKER: EDF REPORT ☐ YES ☒ NO
GLOBAL ID:
COMPOSITE:
FIELD CONDITIONS:

ANALYSIS REQUESTED: OC Pesticides (EPA 8081A); Archive

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	OC Pesticides (EPA 8081A)	Archive	TURN AROUND TIME (3 DAY)	SPECIAL INSTRUCTIONS OR ALT. ID:
9/30/13	0930	30-GS-17	Soil	1	Glass Jar		X		X	
↓	0933	30-GS-18	Soil	1	Glass Jar		X		X	
↓	0938	30-GS-19	Soil	1	Glass Jar		X		X	

INVOICE TO:
PO #:
QUOTE #:

SUSPECTED CONSTITUENTS:
PRESERVATIVES: (1) HCl (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
[signature]	Keith W. Stahyc TT	9/30/13 1535		

REC'D AT LAB BY: [signature] DATE / TIME: 9·30·13 1535 CONDITIONS / COMMENTS: 2.6°

SHIPPED BY: ☐ FED X ☐ UPS ☒ OTHER Hand Delivered AIR BILL #

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: 23830 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1127
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
30-GS-17 (CWI1127-01) Soil Sampled: 09/30/13 09:30 Received: 09/30/13 15:35									
Aldrin	ND	10	µg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4´-DDT	**200**	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*81 %*	*46-139*		*"*	"	*"*	*"*	
Surrogate: Decachlorobiphenyl		*83 %*	*52-141*		*"*	"	*"*	*"*	
30-GS-18 (CWI1127-02) Soil Sampled: 09/30/13 09:33 Received: 09/30/13 15:35									
Aldrin	ND	10	µg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
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Project: 23830 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1127
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
30-GS-18 (CWI1127-02) Soil Sampled: 09/30/13 09:33 Received: 09/30/13 15:35									
4,4´-DDD	ND	150	µg/kg	10	CW06517	"	10/02/13	EPA 8081A	
4,4´-DDE	**570**	300	"	20	"	"	"	"	
4,4´-DDT	**690**	300	"	"	"	"	"	"	
Dieldrin	ND	10	"	10	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*93 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*106 %*		*52-141*	"	"	"	"	
30-GS-19 (CWI1127-03) Soil Sampled: 09/30/13 09:38 Received: 09/30/13 15:35									
Aldrin	ND	10	µg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4´-DDT	**160**	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	

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Project: 23830 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1127
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
30-GS-19 (CWI1127-03) Soil Sampled: 09/30/13 09:38 Received: 09/30/13 15:35									
Endosulfan sulfate	ND	150	µg/kg	10	CW06517	"	10/02/13	EPA 8081A	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*86 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*108 %*		*52-141*	"	"	"	"	

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Project: 23830 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1127
COC #:

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06517 - LUFT-DHS GCNV										
Blank (CW06517-BLK1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	ND	1.0	µg/kg							
alpha-BHC	ND	2.0	"							
beta-BHC	ND	10	"							
delta-BHC	ND	10	"							
gamma-BHC (Lindane)	ND	10	"							
Chlordane-technical	ND	20	"							
4,4´-DDD	ND	15	"							
4,4´-DDE	ND	15	"							
4,4´-DDT	ND	15	"							
Dieldrin	ND	1.0	"							
Endosulfan I	ND	15	"							
Endosulfan II	ND	15	"							
Endosulfan sulfate	ND	15	"							
Endrin	ND	15	"							
Endrin aldehyde	ND	15	"							
Heptachlor	ND	5.0	"							
Heptachlor epoxide	ND	2.0	"							
Methoxychlor	ND	15	"							
Mirex	ND	10	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	*6.25*		*"*	*8.33*		*75*	*46-139*			
Surrogate: Decachlorobiphenyl	*9.24*		*"*	*8.33*		*111*	*52-141*			
LCS (CW06517-BS1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	13.6	1.0	µg/kg	16.7		82	47-132			
gamma-BHC (Lindane)	13.7	10	"	16.7		82	56-133			
4,4´-DDT	15.1	15	"	16.7		91	46-137			
Dieldrin	15.0	1.0	"	16.7		90	44-143			
Endrin	11.7	15	"	16.7		70	30-147			
Heptachlor	14.0	5.0	"	16.7		84	33-148			
Surrogate: Tetrachloro-meta-xylene	*6.82*		*"*	*8.33*		*82*	*46-139*			

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Project: 23830 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1127
COC #:

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06517 - LUFT-DHS GCNV										
LCS (CW06517-BS1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Surrogate: Decachlorobiphenyl	*9.03*		*µg/kg*	*8.33*		*108*	*52-141*			
LCS Dup (CW06517-BSD1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	13.8	1.0	µg/kg	16.7		83	47-132	2	30	
gamma-BHC (Lindane)	13.8	10	"	16.7		83	56-133	1	30	
4,4´-DDT	16.0	15	"	16.7		96	46-137	6	30	
Dieldrin	15.2	1.0	"	16.7		91	44-143	1	30	
Endrin	11.8	15	"	16.7		71	30-147	1	30	
Heptachlor	14.4	5.0	"	16.7		86	33-148	3	30	
Surrogate: Tetrachloro-meta-xylene	*6.99*		*"*	*8.33*		*84*	*46-139*			
Surrogate: Decachlorobiphenyl	*9.01*		*"*	*8.33*		*108*	*52-141*			
Matrix Spike (CW06517-MS1)		**Source: CWI1105-18**		Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	16.5	10	µg/kg	16.7	ND	99	47-138			
gamma-BHC (Lindane)	17.4	100	"	16.7	ND	104	38-144			
4,4´-DDT	28.1	150	"	16.7	ND	169	41-157			QM-7T
Dieldrin	20.6	10	"	16.7	ND	124	46-155			
Endrin	15.7	150	"	16.7	ND	94	34-149			
Heptachlor	18.9	50	"	16.7	ND	114	36-155			
Surrogate: Tetrachloro-meta-xylene	*19.2*		*"*	*20.8*		*92*	*46-139*			
Surrogate: Decachlorobiphenyl	*23.5*		*"*	*20.8*		*113*	*52-141*			
Matrix Spike Dup (CW06517-MSD1)		**Source: CWI1105-18**		Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	16.1	10	µg/kg	16.7	ND	97	47-138	2	35	
gamma-BHC (Lindane)	16.7	100	"	16.7	ND	100	38-144	4	35	
4,4´-DDT	29.8	150	"	16.7	ND	179	41-157	6	35	QM-7T
Dieldrin	20.1	10	"	16.7	ND	121	46-155	3	35	
Endrin	16.1	150	"	16.7	ND	96	34-149	2	35	
Heptachlor	18.6	50	"	16.7	ND	112	36-155	2	35	
Surrogate: Tetrachloro-meta-xylene	*18.4*		*"*	*20.8*		*88*	*46-139*			
Surrogate: Decachlorobiphenyl	*24.7*		*"*	*20.8*		*118*	*52-141*			

Tetra Tech Geo	Project: 23830 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWI1127**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Notes and Definitions

QM-7T	The spike recovery was outside acceptance limits for these analytes in both the MS and MSD due to toxaphene/chlordane interference from the source. The batch was accepted based on acceptable LCS/LCSD recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 03, 2013

CLS Work Order #: CWI1129
COC #:

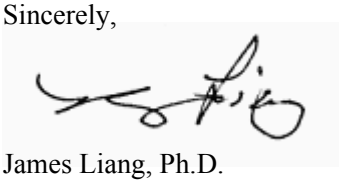
Tim Costello
Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project Name: VOP - Hayward 24137 Eden

Enclosed are the results of analyses for samples received by the laboratory on 09/30/13 15:35. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

10/03/13 16:56

Tetra Tech Geo	Project:	VOP - Hayward 24137 Eden	
2969 Prospect Park Drive, Suite 100	Project Number:	117-7059010.01	**CLS Work Order #: CWI1129**
Rancho Cordova, CA 95670	Project Manager:	Tim Costello	COC #:

1 of 1

CLS - Labs CHAIN OF CUSTODY CLS ID No.: CWI1129 LOG NO. WEB FORM

REPORT TO:
NAME AND ADDRESS: Tetra Tech GEO
2969 Prospect Park Drive
Rancho Cordova, CA
PROJECT MANAGER: Tim Costello PHONE #: (916)853-1800
PROJECT NAME: VOP-Hayward (24137 Eden)
SAMPLED BY: Garrett Kuhl
JOB DESCRIPTION: grab samples
SITE LOCATION: 24137 Eden Ave. Hayward

CLIENT JOB NUMBER: 117-7059010.01
DESTINATION LABORATORY: X CLS (916) 638-7301, 3249 FITZGERALD RD. RANCHO CORDOVA, CA 95742
☐ OTHER

GEOTRACKER:
EDF REPORT ☐ YES ☒ NO
GLOBAL ID:
COMPOSITE:
FIELD CONDITIONS:

ANALYSIS REQUESTED: OC Pesticides (EPA 8081A); Archive

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	OC Pesticides (EPA 8081A)	Archive	TURN AROUND TIME
9/30/13	0845	37-GS-16	Soil	1	Glass Jar		X		X
↓	0848	37-GS-17	Soil	1	Glass Jar		X		X
↓	0850	37-GS-18	Soil	1	Glass Jar		X		X
↓	1056	37-GS-15-1.5'	Soil	1	Glass Jar		X		X

TURN AROUND TIME: 1 DAY / 2 DAY / 5 DAY / 10 DAY (5 DAY marked)
SPECIAL INSTRUCTIONS OR ALT. ID:
INVOICE TO:
PO #
QUOTE #

SUSPECTED CONSTITUENTS:
PRESERVATIVES: (1) HCl (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
[signature]	Keith McIntyre TT	9/30/13 1535		

REC'D AT LAB BY: [signature] DATE / TIME: 9/30/13 1535 CONDITIONS / COMMENTS: 2.3°

SHIPPED BY: ☐ FED X ☐ UPS ☒ OTHER Hand Delivered AIR BILL #

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
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Project: VOP - Hayward 24137 Eden
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1129
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-GS-16 (CWI1129-01) Soil Sampled: 09/30/13 08:45 Received: 09/30/13 15:35									
Aldrin	ND	10	µg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	**1700**	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4´-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*72 %*	*46-139*		*"*	"	*"*	*"*	
Surrogate: Decachlorobiphenyl		*81 %*	*52-141*		*"*	"	*"*	*"*	
37-GS-17 (CWI1129-02) Soil Sampled: 09/30/13 08:48 Received: 09/30/13 15:35									
Aldrin	ND	10	µg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	**1100**	200	"	"	"	"	"	"	

Tetra Tech Geo
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CLS Work Order #: CWI1129
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-GS-17 (CWI1129-02) Soil Sampled: 09/30/13 08:48 Received: 09/30/13 15:35									
4,4´-DDD	ND	150	µg/kg	10	CW06517	"	10/02/13	EPA 8081A	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4´-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*70 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*90 %*		*52-141*	"	"	"	"	
37-GS-18 (CWI1129-03) Soil Sampled: 09/30/13 08:50 Received: 09/30/13 15:35									
Aldrin	ND	10	µg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	**1000**	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4´-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	

Tetra Tech Geo
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Project: VOP - Hayward 24137 Eden
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1129
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-GS-18 (CWI1129-03) Soil Sampled: 09/30/13 08:50 Received: 09/30/13 15:35									
Endosulfan sulfate	ND	150	µg/kg	10	CW06517	"	10/02/13	EPA 8081A	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*73 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*61 %*		*52-141*	"	"	"	"	
37-GS-15-1.5' (CWI1129-04) Soil Sampled: 09/30/13 10:56 Received: 09/30/13 15:35									
Aldrin	ND	10	µg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	**210**	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4´-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP - Hayward 24137 Eden
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1129
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-GS-15-1.5' (CWI1129-04) Soil Sampled: 09/30/13 10:56 Received: 09/30/13 15:35									
Mirex	ND	100	µg/kg	10	CW06517	"	10/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*80 %*		*46-139*		*″*	*″*	*″*	*″*	
Surrogate: Decachlorobiphenyl		*94 %*		*52-141*		*″*	*″*	*″*	*″*	

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Project: VOP - Hayward 24137 Eden
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1129
COC #:

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06517 - LUFT-DHS GCNV										
Blank (CW06517-BLK1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	ND	1.0	µg/kg							
alpha-BHC	ND	2.0	"							
beta-BHC	ND	10	"							
delta-BHC	ND	10	"							
gamma-BHC (Lindane)	ND	10	"							
Chlordane-technical	ND	20	"							
4,4´-DDD	ND	15	"							
4,4´-DDE	ND	15	"							
4,4´-DDT	ND	15	"							
Dieldrin	ND	1.0	"							
Endosulfan I	ND	15	"							
Endosulfan II	ND	15	"							
Endosulfan sulfate	ND	15	"							
Endrin	ND	15	"							
Endrin aldehyde	ND	15	"							
Heptachlor	ND	5.0	"							
Heptachlor epoxide	ND	2.0	"							
Methoxychlor	ND	15	"							
Mirex	ND	10	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	*6.25*		*"*	*8.33*		*75*	*46-139*			
Surrogate: Decachlorobiphenyl	*9.24*		*"*	*8.33*		*111*	*52-141*			
LCS (CW06517-BS1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	13.6	1.0	µg/kg	16.7		82	47-132			
gamma-BHC (Lindane)	13.7	10	"	16.7		82	56-133			
4,4´-DDT	15.1	15	"	16.7		91	46-137			
Dieldrin	15.0	1.0	"	16.7		90	44-143			
Endrin	11.7	15	"	16.7		70	30-147			
Heptachlor	14.0	5.0	"	16.7		84	33-148			
Surrogate: Tetrachloro-meta-xylene	*6.82*		*"*	*8.33*		*82*	*46-139*			

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CLS Work Order #: CWI1129
COC #:

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06517 - LUFT-DHS GCNV										
LCS (CW06517-BS1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Surrogate: Decachlorobiphenyl	*9.03*		*µg/kg*	*8.33*		*108*	*52-141*			
LCS Dup (CW06517-BSD1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	13.8	1.0	µg/kg	16.7		83	47-132	2	30	
gamma-BHC (Lindane)	13.8	10	"	16.7		83	56-133	1	30	
4,4´-DDT	16.0	15	"	16.7		96	46-137	6	30	
Dieldrin	15.2	1.0	"	16.7		91	44-143	1	30	
Endrin	11.8	15	"	16.7		71	30-147	1	30	
Heptachlor	14.4	5.0	"	16.7		86	33-148	3	30	
Surrogate: Tetrachloro-meta-xylene	*6.99*		*"*	*8.33*		*84*	*46-139*			
Surrogate: Decachlorobiphenyl	*9.01*		*"*	*8.33*		*108*	*52-141*			
Matrix Spike (CW06517-MS1)		**Source: CWI1105-18**		Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	16.5	10	µg/kg	16.7	ND	99	47-138			
gamma-BHC (Lindane)	17.4	100	"	16.7	ND	104	38-144			
4,4´-DDT	28.1	150	"	16.7	ND	169	41-157			QM-7T
Dieldrin	20.6	10	"	16.7	ND	124	46-155			
Endrin	15.7	150	"	16.7	ND	94	34-149			
Heptachlor	18.9	50	"	16.7	ND	114	36-155			
Surrogate: Tetrachloro-meta-xylene	*19.2*		*"*	*20.8*		*92*	*46-139*			
Surrogate: Decachlorobiphenyl	*23.5*		*"*	*20.8*		*113*	*52-141*			
Matrix Spike Dup (CW06517-MSD1)		**Source: CWI1105-18**		Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	16.1	10	µg/kg	16.7	ND	97	47-138	2	35	
gamma-BHC (Lindane)	16.7	100	"	16.7	ND	100	38-144	4	35	
4,4´-DDT	29.8	150	"	16.7	ND	179	41-157	6	35	QM-7T
Dieldrin	20.1	10	"	16.7	ND	121	46-155	3	35	
Endrin	16.1	150	"	16.7	ND	96	34-149	2	35	
Heptachlor	18.6	50	"	16.7	ND	112	36-155	2	35	
Surrogate: Tetrachloro-meta-xylene	*18.4*		*"*	*20.8*		*88*	*46-139*			
Surrogate: Decachlorobiphenyl	*24.7*		*"*	*20.8*		*118*	*52-141*			

Tetra Tech Geo	Project: VOP - Hayward 24137 Eden	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWI1129**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Notes and Definitions

QM-7T	The spike recovery was outside acceptance limits for these analytes in both the MS and MSD due to toxaphene/chlordane interference from the source. The batch was accepted based on acceptable LCS/LCSD recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 14, 2013

CLS Work Order #: CWJ0513
COC #: 144245

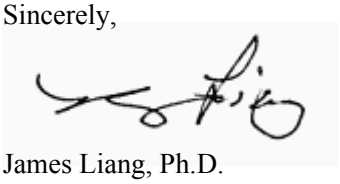
Tim Costello
Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project Name: VOP Hayward Saklan Dig & Haul

Enclosed are the results of analyses for samples received by the laboratory on 10/10/13 14:03. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

 10/14/13 11:59

Tetra Tech Geo 2969 Prospect Park Drive, Suite 100 Rancho Cordova, CA 95670	Project: VOP Hayward Saklan Dig & Haul Project Number: 117-7059010 Project Manager: Tim Costello	**CLS Work Order #: CWJ0513** COC #: 144245

CLS - Labs CHAIN OF CUSTODY CLS ID No.: CWJ0513 LOG NO. 144245

REPORT TO:
NAME AND ADDRESS: Tetra Tech, 2969 Prospect Park Dr Suite 100, Rancho Cordova, CA 95670
PROJECT MANAGER: Tim Costello PHONE #: (916) 853-1800
PROJECT NAME: VOP Hayward Saklan Dig & Haul
SAMPLED BY: GARRETT KUHL
JOB DESCRIPTION:
SITE LOCATION:

CLIENT JOB NUMBER: 117-7059010
DESTINATION LABORATORY: [X] CLS (916) 638-7301, 3249 FITZGERALD RD. RANCHO CORDOVA, CA. 95742 [ ] OTHER

ANALYSIS REQUESTED: OC Pesticides (8081A)

GEOTRACKER: EDF REPORT [ ] YES [ ] NO GLOBAL ID:
COMPOSITE:
FIELD CONDITIONS:

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	OC Pesticides (8081A)	TURN AROUND TIME (2 DAY)
10/10/13	0915	37-GS19-0.5'	Soil	1	Jar	3	X	X
10/10/13	0920	37-GS20-0.5'	Soil	1	Jar	3	X	X
10/10/13	0925	37-GS21-0.5'	Soil	1	Jar	3	X	X
10/10/13	0930	37-GS22-0.5'	Soil	1	Jar	3	X	X

TURN AROUND TIME: 1 DAY / 2 DAY / 3 DAY / 5 DAY
SPECIAL INSTRUCTIONS OR ALT. ID:
INVOICE TO:
P.O. #
QUOTE #

SUSPECTED CONSTITUENTS:
PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
[signature]	GARRETT KUHL / TetraTech	10/10/13 / 1215	[signature]	Bill Schroeder TetraTech
[signature]	Bill Schroeder / TetraTech	10/10/13 / 1403		

REC'D AT LAB BY: [signature] DATE / TIME: 10/10/13 1403 CONDITIONS / COMMENTS: 2°

SHIPPED BY: [ ] FED X [ ] UPS [ ] OTHER AIR BILL #

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP Hayward Saklan Dig & Haul
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWJ0513
COC #: 144245

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-G S19-0.5' (CWJ0513-01) Soil Sampled: 10/10/13 09:15 Received: 10/10/13 14:03									
Aldrin	ND	17	µg/kg	10	CW06798	10/11/13	10/14/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	**930**	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**79**	33	"	"	"	"	"	"	
4,4´-DDT	**120**	33	"	"	"	"	"	"	
Dieldrin	**52**	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	**22**	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*58 %*	*46-139*		*"*	"	*"*	*"*	
Surrogate: Decachlorobiphenyl		*77 %*	*52-141*		*"*	"	*"*	*"*	
37-G S20-0.5' (CWJ0513-02) Soil Sampled: 10/10/13 09:20 Received: 10/10/13 14:03									
Aldrin	ND	17	µg/kg	10	CW06798	10/11/13	10/14/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	**120**	33	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP Hayward Saklan Dig & Haul
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWJ0513
COC #: 144245

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-G S20-0.5' (CWJ0513-02) Soil Sampled: 10/10/13 09:20 Received: 10/10/13 14:03									
4,4´-DDD	ND	33	µg/kg	10	CW06798	"	10/14/13	EPA 8081A	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*70 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*114 %*		*52-141*	"	"	"	"	
37-G S21-0.5' (CWJ0513-03) Soil Sampled: 10/10/13 09:25 Received: 10/10/13 14:03									
Aldrin	ND	17	µg/kg	10	CW06798	10/11/13	10/14/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	**150**	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP Hayward Saklan Dig & Haul
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWJ0513
COC #: 144245

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-G S21-0.5' (CWJ0513-03) Soil Sampled: 10/10/13 09:25 Received: 10/10/13 14:03									
Endosulfan sulfate	ND	33	µg/kg	10	CW06798	"	10/14/13	EPA 8081A	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*75 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*92 %*		*52-141*	"	"	"	"	
37-G S22-0.5' (CWJ0513-04) Soil Sampled: 10/10/13 09:25 Received: 10/10/13 14:03									
Aldrin	ND	17	µg/kg	10	CW06798	10/11/13	10/14/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP Hayward Saklan Dig & Haul
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWJ0513
COC #: 144245

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
37-G S22-0.5' (CWJ0513-04) Soil Sampled: 10/10/13 09:25 Received: 10/10/13 14:03									
Mirex	ND	33	µg/kg	10	CW06798	"	10/14/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*77 %*	*46-139*		*"*	"	*"*	*"*	
Surrogate: Decachlorobiphenyl		*93 %*	*52-141*		*"*	"	*"*	*"*	

Tetra Tech Geo
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Project: VOP Hayward Saklan Dig & Haul
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWJ0513
COC #: 144245

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06798 - LUFT-DHS GCNV										
Blank (CW06798-BLK1)				Prepared: 10/11/13 Analyzed: 10/14/13						
Aldrin	ND	1.7	µg/kg							
alpha-BHC	ND	1.7	"							
beta-BHC	ND	1.7	"							
gamma-BHC (Lindane)	ND	1.7	"							
delta-BHC	ND	1.7	"							
Chlordane-technical	ND	3.3	"							
4,4´-DDD	ND	3.3	"							
4,4´-DDE	ND	3.3	"							
4,4´-DDT	ND	3.3	"							
Dieldrin	ND	3.0	"							
Endosulfan I	ND	1.7	"							
Endosulfan II	ND	3.3	"							
Endosulfan sulfate	ND	3.3	"							
Endrin	ND	3.3	"							
Endrin aldehyde	ND	3.3	"							
Heptachlor	ND	1.7	"							
Heptachlor epoxide	ND	1.7	"							
Methoxychlor	ND	17	"							
Mirex	ND	3.3	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	*5.72*		*"*	*8.33*		*69*	*46-139*			
Surrogate: Decachlorobiphenyl	*9.53*		*"*	*8.33*		*114*	*52-141*			
LCS (CW06798-BS1)				Prepared: 10/11/13 Analyzed: 10/14/13						
Aldrin	13.4	1.7	µg/kg	16.7		80	47-132			
gamma-BHC (Lindane)	13.3	1.7	"	16.7		80	56-133			
4,4´-DDT	14.8	3.3	"	16.7		89	46-137			
Dieldrin	14.4	3.0	"	16.7		87	44-143			
Endrin	11.8	3.3	"	16.7		71	30-147			
Heptachlor	12.7	1.7	"	16.7		76	33-148			
Surrogate: Tetrachloro-meta-xylene	*6.78*		*"*	*8.33*		*81*	*46-139*			

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP Hayward Saklan Dig & Haul
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWJ0513
COC #: 144245

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06798 - LUFT-DHS GCNV										
LCS (CW06798-BS1)				Prepared: 10/11/13 Analyzed: 10/14/13						
Surrogate: Decachlorobiphenyl	*9.29*		*µg/kg*	*8.33*		*111*	*52-141*			
LCS Dup (CW06798-BSD1)				Prepared: 10/11/13 Analyzed: 10/14/13						
Aldrin	13.8	1.7	µg/kg	16.7		83	47-132	3	30	
gamma-BHC (Lindane)	13.1	1.7	"	16.7		79	56-133	2	30	
4,4´-DDT	14.8	3.3	"	16.7		89	46-137	0.1	30	
Dieldrin	15.0	3.0	"	16.7		90	44-143	4	30	
Endrin	12.6	3.3	"	16.7		76	30-147	7	30	
Heptachlor	13.2	1.7	"	16.7		79	33-148	4	30	
Surrogate: Tetrachloro-meta-xylene	*6.86*		*"*	*8.33*		*82*	*46-139*			
Surrogate: Decachlorobiphenyl	*9.41*		*"*	*8.33*		*113*	*52-141*			
Matrix Spike (CW06798-MS1)	**Source: CWJ0513-04**			Prepared: 10/11/13 Analyzed: 10/14/13						
Aldrin	15.2	17	µg/kg	16.7	ND	91	47-138			
gamma-BHC (Lindane)	15.0	17	"	16.7	ND	90	38-144			
4,4´-DDT	14.4	33	"	16.7	ND	87	41-157			
Dieldrin	16.4	30	"	16.7	ND	99	46-155			
Endrin	14.1	33	"	16.7	ND	85	34-149			
Heptachlor	15.6	17	"	16.7	ND	93	36-155			
Surrogate: Tetrachloro-meta-xylene	*15.7*		*"*	*20.8*		*76*	*46-139*			
Surrogate: Decachlorobiphenyl	*19.9*		*"*	*20.8*		*96*	*52-141*			
Matrix Spike Dup (CW06798-MSD1)	**Source: CWJ0513-04**			Prepared: 10/11/13 Analyzed: 10/14/13						
Aldrin	15.6	17	µg/kg	16.7	ND	93	47-138	2	35	
gamma-BHC (Lindane)	15.2	17	"	16.7	ND	91	38-144	2	35	
4,4´-DDT	14.8	33	"	16.7	ND	89	41-157	3	35	
Dieldrin	16.7	30	"	16.7	ND	100	46-155	2	35	
Endrin	14.3	33	"	16.7	ND	86	34-149	2	35	
Heptachlor	15.8	17	"	16.7	ND	95	36-155	2	35	
Surrogate: Tetrachloro-meta-xylene	*16.3*		*"*	*20.8*		*78*	*46-139*			
Surrogate: Decachlorobiphenyl	*21.2*		*"*	*20.8*		*102*	*52-141*			

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP Hayward Saklan Dig & Haul
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWJ0513
COC #: 144245

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

ATTACHMENT C

Soil Profile and Confirmation Soil Sample Laboratory Analytical Data Sheets and Chain of Custody Forms

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 03, 2013

CLS Work Order #: CWH1094
COC #:

Tim Costello
Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project Name: 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 08/28/13 16:30. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

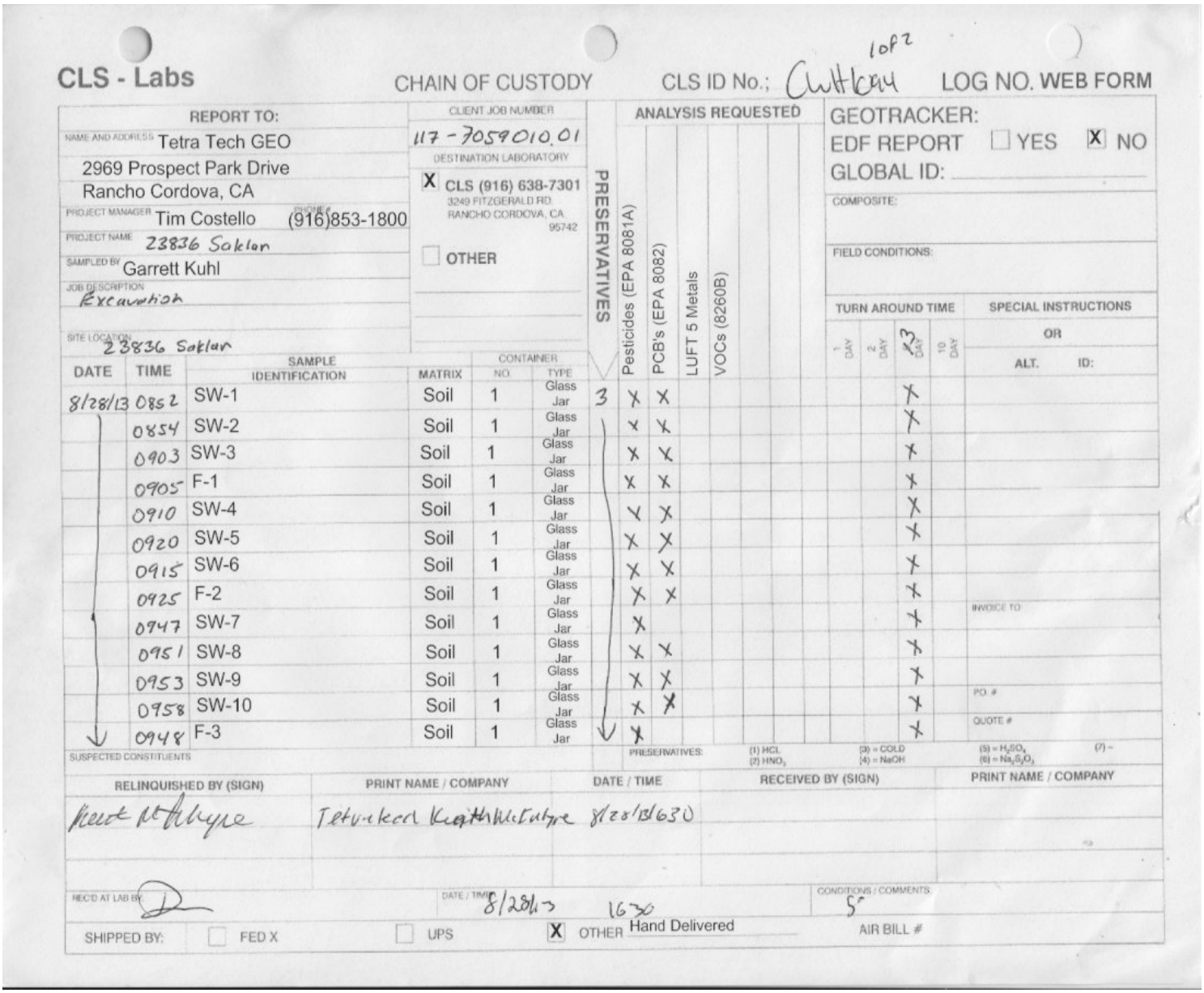
Sincerely,

James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

Tetra Tech Geo	Project: 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWH1094**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:



CLS - Labs

CHAIN OF CUSTODY CLS ID No.: CWH1094 1 of 2 LOG NO. WEB FORM

REPORT TO:
NAME AND ADDRESS: Tetra Tech GEO
2969 Prospect Park Drive
Rancho Cordova, CA
PROJECT MANAGER: Tim Costello PHONE #: (916)853-1800
PROJECT NAME: 23836 Saklan
SAMPLED BY: Garrett Kuhl
JOB DESCRIPTION: Excavation
SITE LOCATION: 23836 Saklan

CLIENT JOB NUMBER: 117-7059010.01
DESTINATION LABORATORY:
X CLS (916) 638-7301 3249 FITZGERALD RD. RANCHO CORDOVA, CA 95742
OTHER

ANALYSIS REQUESTED
PRESERVATIVES
Pesticides (EPA 8081A)
PCB's (EPA 8082)
LUFT 5 Metals
VOCs (8260B)

GEOTRACKER:
EDF REPORT YES X NO
GLOBAL ID:
COMPOSITE:
FIELD CONDITIONS:
TURN AROUND TIME: 1 DAY, 2 DAY, 3 DAY, 10 DAY
SPECIAL INSTRUCTIONS OR ALT. ID:

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	Pesticides (EPA 8081A)	PCB's (EPA 8082)	LUFT 5 Metals	VOCs (8260B)	3 DAY
8/28/13	0852	SW-1	Soil	1	Glass Jar	3	X	X		X
	0854	SW-2	Soil	1	Glass Jar		X	X		X
	0903	SW-3	Soil	1	Glass Jar		X	X		X
	0905	F-1	Soil	1	Glass Jar		X	X		X
	0910	SW-4	Soil	1	Glass Jar		X	X		X
	0920	SW-5	Soil	1	Glass Jar		X	X		X
	0915	SW-6	Soil	1	Glass Jar		X	X		X
	0925	F-2	Soil	1	Glass Jar		X	X		X
	0947	SW-7	Soil	1	Glass Jar		X			X
	0951	SW-8	Soil	1	Glass Jar		X	X		X
	0953	SW-9	Soil	1	Glass Jar		X	X		X
	0958	SW-10	Soil	1	Glass Jar		X	X		X
	0948	F-3	Soil	1	Glass Jar		X			X

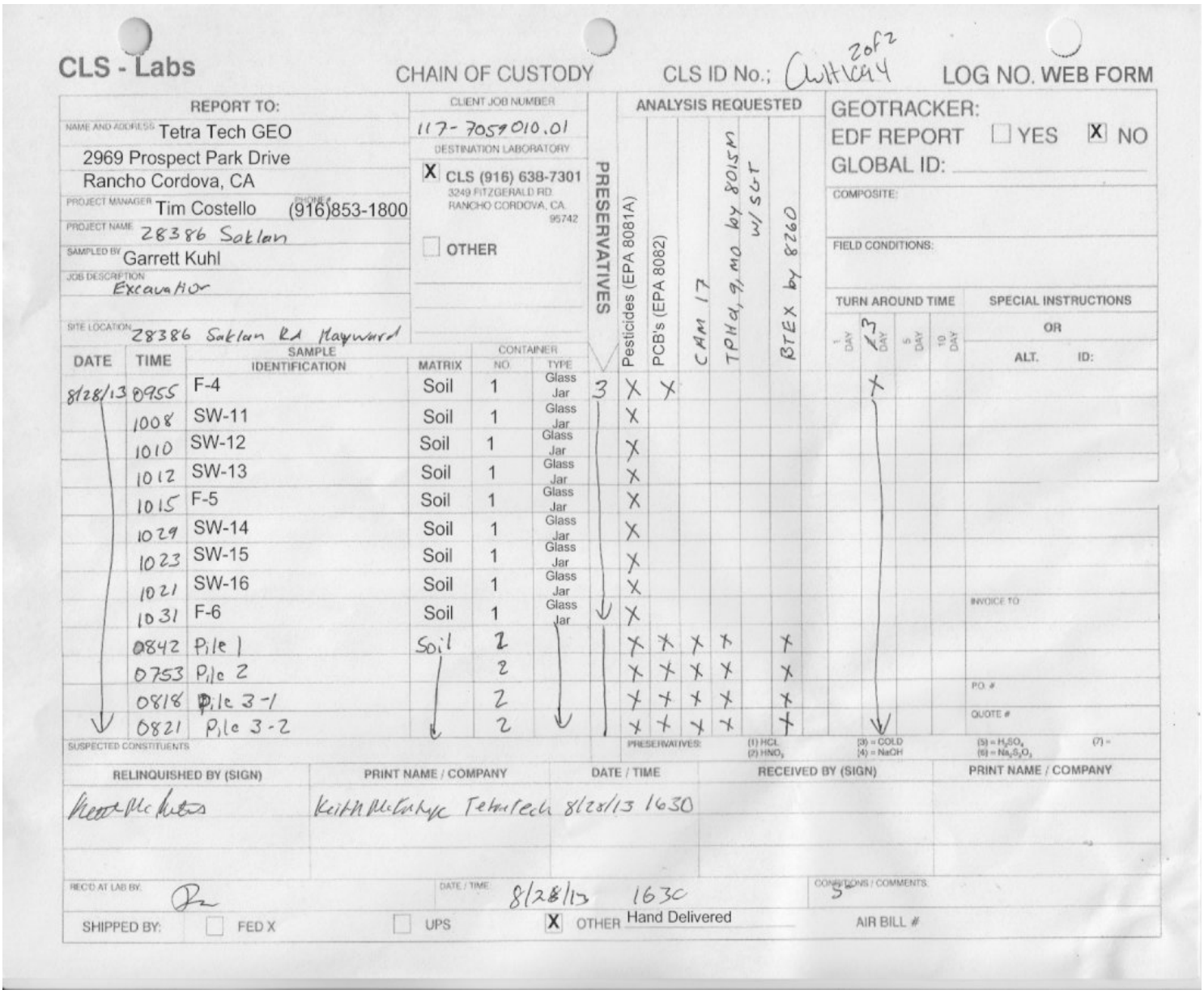
INVOICE TO:
P.O. #:
QUOTE #:
SUSPECTED CONSTITUENTS
PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
Keith McIntyre	Tetra Tech Keith McIntyre	8/28/13 1630		

REC'D AT LAB BY: DATE / TIME: 8/28/13 1630 CONDITIONS / COMMENTS: 5°
SHIPPED BY: FED X UPS X OTHER Hand Delivered AIR BILL #

CALIFORNIA LABORATORY SERVICES

Tetra Tech Geo	Project: 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWH1094**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:



CLS - Labs

CHAIN OF CUSTODY CLS ID No.: CWH1094 2 of 2 LOG NO. WEB FORM

REPORT TO:
NAME AND ADDRESS: Tetra Tech GEO
2969 Prospect Park Drive
Rancho Cordova, CA
PROJECT MANAGER: Tim Costello (916)853-1800
PROJECT NAME: 28386 Saklan
SAMPLED BY: Garrett Kuhl
JOB DESCRIPTION: Excavation
SITE LOCATION: 28386 Saklan Rd Hayward

CLIENT JOB NUMBER: 117-7059010.01
DESTINATION LABORATORY:
[X] CLS (916) 638-7301 3249 FITZGERALD RD. RANCHO CORDOVA, CA. 95742
[ ] OTHER

GEOTRACKER:
EDF REPORT [ ] YES [X] NO
GLOBAL ID:
COMPOSITE:
FIELD CONDITIONS:
TURN AROUND TIME: 1 DAY, 3 DAY, 5 DAY, 10 DAY
SPECIAL INSTRUCTIONS OR ALT. ID:

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	PRESERVATIVES	Pesticides (EPA 8081A)	PCB's (EPA 8082)	CAM 17	TPH d, g, MO by 8015M w/ SGT	BTEX by 8260
8/28/13	0955	F-4	Soil	1	Glass Jar	3	X	X			
	1008	SW-11	Soil	1	Glass Jar		X				
	1010	SW-12	Soil	1	Glass Jar		X				
	1012	SW-13	Soil	1	Glass Jar		X				
	1015	F-5	Soil	1	Glass Jar		X				
	1029	SW-14	Soil	1	Glass Jar		X				
	1023	SW-15	Soil	1	Glass Jar		X				
	1021	SW-16	Soil	1	Glass Jar		X				
	1031	F-6	Soil	1	Glass Jar		X				
	0842	Pile 1	Soil	2			X	X	X	X	X
	0753	Pile 2		2			X	X	X	X	X
	0818	Pile 3-1		2			X	X	X	X	X
	0821	Pile 3-2		2			X	X	X	X	X

SUSPECTED CONSTITUENTS
PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

INVOICE TO:
P.O. #:
QUOTE #:

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
Keith McMurtrie	Keith McMurtrie Tetra Tech	8/28/13 1630		

RECD AT LAB BY: DATE / TIME: 8/28/13 1630 CONDITIONS / COMMENTS: 5°

SHIPPED BY: [ ] FED X [ ] UPS [X] OTHER Hand Delivered AIR BILL #

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094
COC #:

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 1 (CWH1094-23) Soil Sampled: 08/28/13 08:42 Received: 08/28/13 16:30									
Arsenic	**3.4**	1.0	mg/kg	10	CW05668	08/29/13	08/29/13	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CW05670	08/29/13	08/29/13	EPA 6010B	
Barium	**190**	1.0	"	"	"	"	"	"	
Beryllium	**0.53**	0.50	"	"	"	"	"	"	
Cadmium	ND	0.50	"	"	"	"	"	"	
Cobalt	**11**	1.0	"	"	"	"	"	"	
Chromium	**64**	1.0	"	"	"	"	"	"	
Copper	**26**	1.0	"	"	"	"	"	"	
Lead	**18**	2.5	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	
Nickel	**46**	1.0	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	"	"	
Vanadium	**45**	1.0	"	"	"	"	"	"	
Zinc	**81**	1.0	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	CW05713	08/30/13	08/30/13	EPA 7471A	
Pile 2 (CWH1094-24) Soil Sampled: 08/28/13 07:53 Received: 08/28/13 16:30									
Arsenic	**3.8**	1.0	mg/kg	10	CW05668	08/29/13	08/29/13	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CW05670	08/29/13	08/29/13	EPA 6010B	
Barium	**160**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	**0.52**	0.50	"	"	"	"	"	"	
Cobalt	**10**	1.0	"	"	"	"	"	"	
Chromium	**61**	1.0	"	"	"	"	"	"	
Copper	**28**	1.0	"	"	"	"	"	"	
Lead	**44**	2.5	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094
COC #:

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 2 (CWH1094-24) Soil Sampled: 08/28/13 07:53 Received: 08/28/13 16:30									
Nickel	**41**	1.0	mg/kg	1	CW05670	"	08/29/13	EPA 6010B	
Silver	ND	0.50	"	"	"	"	"	"	
Vanadium	**44**	1.0	"	"	"	"	"	"	
Zinc	**100**	1.0	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	CW05713	08/30/13	08/30/13	EPA 7471A	
Pile 3-1 (CWH1094-25) Soil Sampled: 08/28/13 08:18 Received: 08/28/13 16:30									
Arsenic	**3.4**	1.0	mg/kg	10	CW05668	08/29/13	08/29/13	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CW05670	08/29/13	08/29/13	EPA 6010B	
Barium	**160**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	**0.63**	0.50	"	"	"	"	"	"	
Cobalt	**9.5**	1.0	"	"	"	"	"	"	
Chromium	**58**	1.0	"	"	"	"	"	"	
Copper	**27**	1.0	"	"	"	"	"	"	
Lead	**30**	2.5	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	
Nickel	**38**	1.0	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	"	"	
Vanadium	**42**	1.0	"	"	"	"	"	"	
Zinc	**110**	1.0	"	"	"	"	"	"	
Mercury	ND	0.10	"	"	CW05713	08/30/13	08/30/13	EPA 7471A	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094
COC #:

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 3-2 (CWH1094-26) Soil Sampled: 08/28/13 08:21 Received: 08/28/13 16:30									
Arsenic	**3.5**	1.0	mg/kg	10	CW05668	08/29/13	08/29/13	EPA 6020/7000	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	1.0	"	"	"	"	"	"	
Antimony	ND	2.5	"	1	CW05670	08/29/13	08/29/13	EPA 6010B	
Barium	**150**	1.0	"	"	"	"	"	"	
Beryllium	ND	0.50	"	"	"	"	"	"	
Cadmium	**0.60**	0.50	"	"	"	"	"	"	
Cobalt	**9.7**	1.0	"	"	"	"	"	"	
Chromium	**72**	1.0	"	"	"	"	"	"	
Copper	**28**	1.0	"	"	"	"	"	"	
Lead	**23**	2.5	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	
Nickel	**40**	1.0	"	"	"	"	"	"	
Silver	ND	0.50	"	"	"	"	"	"	
Vanadium	**43**	1.0	"	"	"	"	"	"	
Zinc	**100**	1.0	"	"	"	"	"	"	
Mercury	**0.14**	0.10	"	"	CW05713	08/30/13	08/30/13	EPA 7471A	

Tetra Tech Geo	Project: 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWH1094**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 1 (CWH1094-23) Soil Sampled: 08/28/13 08:42 Received: 08/28/13 16:30									**EXT-3**
Diesel	ND	1.0	mg/kg	1	CW05646	08/29/13	08/30/13	EPA 8015M	
Motor Oil	**23**	1.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*107 %*	*65-135*		"	"	"	"	
Pile 2 (CWH1094-24) Soil Sampled: 08/28/13 07:53 Received: 08/28/13 16:30									**EXT-3**
Diesel	ND	1.0	mg/kg	1	CW05646	08/29/13	08/30/13	EPA 8015M	
Motor Oil	**26**	1.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*99 %*	*65-135*		"	"	"	"	
Pile 3-1 (CWH1094-25) Soil Sampled: 08/28/13 08:18 Received: 08/28/13 16:30									**EXT-3**
Diesel	ND	1.0	mg/kg	1	CW05646	08/29/13	08/30/13	EPA 8015M	
Motor Oil	**39**	1.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*103 %*	*65-135*		"	"	"	"	
Pile 3-2 (CWH1094-26) Soil Sampled: 08/28/13 08:21 Received: 08/28/13 16:30									**EXT-3**
Diesel	ND	1.0	mg/kg	1	CW05646	08/29/13	08/30/13	EPA 8015M	
Motor Oil	**29**	1.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*110 %*	*65-135*		"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-1 (CWH1094-01) Soil Sampled: 08/28/13 08:52 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**96**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**140**	33	"	"	"	"	"	"	
4,4´-DDT	**69**	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*82 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*86 %*		*52-141*	"	"	"	"	
SW-2 (CWH1094-02) Soil Sampled: 08/28/13 08:54 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**18**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-2 (CWH1094-02) Soil Sampled: 08/28/13 08:54 Received: 08/28/13 16:30									
4,4´-DDD	ND	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
4,4´-DDE	**550**	83	"	25	"	"	"	"	
4,4´-DDT	**270**	33	"	10	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*98 %*	*46-139*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*98 %*	*52-141*		"	"	"	"	
SW-3 (CWH1094-03) Soil Sampled: 08/28/13 09:03 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**65**	33	"	"	"	"	"	"	
4,4´-DDT	**43**	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	

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Project Manager: Tim Costello

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COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-3 (CWH1094-03) Soil Sampled: 08/28/13 09:03 Received: 08/28/13 16:30									
Endosulfan sulfate	ND	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*84 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*95 %*		*52-141*	"	"	"	"	
F-1 (CWH1094-04) Soil Sampled: 08/28/13 09:05 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-1 (CWH1094-04) Soil Sampled: 08/28/13 09:05 Received: 08/28/13 16:30									
Mirex	ND	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*100 %*		*46-139*		"	"	"	
Surrogate: Decachlorobiphenyl		*100 %*		*52-141*		"	"	"	
SW-4 (CWH1094-05) Soil Sampled: 08/28/13 09:10 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**190**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**470**	66	"	20	"	"	"	"	
4,4´-DDT	**350**	33	"	10	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*100 %*		*46-139*		"	"	"	
Surrogate: Decachlorobiphenyl		*120 %*		*52-141*		"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-5 (CWH1094-06) Soil Sampled: 08/28/13 09:20 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**400**	34	"	20	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	10	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**400**	66	"	20	"	"	"	"	
4,4´-DDT	**360**	66	"	"	"	"	"	"	
Dieldrin	ND	30	"	10	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	*91 %*	*46-139*			"	"	"	"	
Surrogate: Decachlorobiphenyl	*111 %*	*52-141*			"	"	"	"	
SW-6 (CWH1094-07) Soil Sampled: 08/28/13 09:15 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**100**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-6 (CWH1094-07) Soil Sampled: 08/28/13 09:15 Received: 08/28/13 16:30									
4,4´-DDD	ND	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
4,4´-DDE	**33**	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*71 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*67 %*		*52-141*	"	"	"	"	
F-2 (CWH1094-08) Soil Sampled: 08/28/13 09:25 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**54**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**65**	33	"	"	"	"	"	"	
4,4´-DDT	**41**	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-2 (CWH1094-08) Soil Sampled: 08/28/13 09:25 Received: 08/28/13 16:30									
Endosulfan sulfate	ND	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*81 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*73 %*		*52-141*	"	"	"	"	
SW-7 (CWH1094-09) Soil Sampled: 08/28/13 09:47 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**440**	34	"	20	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	10	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**310**	33	"	"	"	"	"	"	
4,4´-DDT	**330**	66	"	20	"	"	"	"	
Dieldrin	ND	30	"	10	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-7 (CWH1094-09) Soil Sampled: 08/28/13 09:47 Received: 08/28/13 16:30									
Mirex	ND	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*89 %*	*46-139*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*125 %*	*52-141*		"	"	"	"	
SW-8 (CWH1094-10) Soil Sampled: 08/28/13 09:51 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**170**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**560**	66	"	20	"	"	"	"	
4,4´-DDT	**330**	66	"	"	"	"	"	"	
Dieldrin	ND	30	"	10	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*88 %*	*46-139*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*88 %*	*52-141*		"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-9 (CWH1094-11) Soil Sampled: 08/28/13 09:53 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**340**	34	"	20	"	"	"	"	
gamma-BHC (Lindane)	**26**	17	"	10	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	**150**	66	"	20	"	"	"	"	
4,4´-DDE	**1300**	170	"	50	"	"	"	"	
4,4´-DDT	**960**	170	"	"	"	"	"	"	
Dieldrin	ND	30	"	10	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*92 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*91 %*		*52-141*	"	"	"	"	
SW-10 (CWH1094-12) Soil Sampled: 08/28/13 09:58 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**190**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-10 (CWH1094-12) Soil Sampled: 08/28/13 09:58 Received: 08/28/13 16:30									
4,4´-DDD	**40**	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
4,4´-DDE	**980**	130	"	40	"	"	"	"	
4,4´-DDT	**720**	130	"	"	"	"	"	"	
Dieldrin	ND	30	"	10	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*91 %*	*46-139*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*92 %*	*52-141*		"	"	"	"	
F-3 (CWH1094-13) Soil Sampled: 08/28/13 09:48 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**55**	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-3 (CWH1094-13) Soil Sampled: 08/28/13 09:48 Received: 08/28/13 16:30									
Endosulfan sulfate	ND	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*84 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*85 %*		*52-141*	"	"	"	"	
F-4 (CWH1094-14) Soil Sampled: 08/28/13 09:55 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**73**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

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COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-4 (CWH1094-14) Soil Sampled: 08/28/13 09:55 Received: 08/28/13 16:30									
Mirex	ND	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*87 %*		*46-139*		"	"	"	
Surrogate: Decachlorobiphenyl		*81 %*		*52-141*		"	"	"	
SW-11 (CWH1094-15) Soil Sampled: 08/28/13 10:08 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**33**	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*92 %*		*46-139*		"	"	"	
Surrogate: Decachlorobiphenyl		*93 %*		*52-141*		"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-12 (CWH1094-16) Soil Sampled: 08/28/13 10:10 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**25**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**82**	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	*93 %*	*46-139*			"	"	"	"	
Surrogate: Decachlorobiphenyl	*120 %*	*52-141*			"	"	"	"	
SW-13 (CWH1094-17) Soil Sampled: 08/28/13 10:12 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-13 (CWH1094-17) Soil Sampled: 08/28/13 10:12 Received: 08/28/13 16:30									
4,4´-DDD	ND	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
4,4´-DDE	**110**	33	"	"	"	"	"	"	
4,4´-DDT	**56**	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*96 %*	*46-139*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*97 %*	*52-141*		"	"	"	"	
F-5 (CWH1094-18) Soil Sampled: 08/28/13 10:15 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-5 (CWH1094-18) Soil Sampled: 08/28/13 10:15 Received: 08/28/13 16:30									
Endosulfan sulfate	ND	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*89 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*117 %*		*52-141*	"	"	"	"	
SW-14 (CWH1094-19) Soil Sampled: 08/28/13 10:29 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**28**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**190**	33	"	"	"	"	"	"	
4,4´-DDT	**100**	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-14 (CWH1094-19) Soil Sampled: 08/28/13 10:29 Received: 08/28/13 16:30									
Mirex	ND	33	µg/kg	10	CW05677	"	09/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	*93 %*	*46-139*			"	"	"	"	
Surrogate: Decachlorobiphenyl	*101 %*	*52-141*			"	"	"	"	
SW-15 (CWH1094-20) Soil Sampled: 08/28/13 10:23 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05677	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**83**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**190**	33	"	"	"	"	"	"	
4,4´-DDT	**50**	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene	*95 %*	*46-139*			"	"	"	"	
Surrogate: Decachlorobiphenyl	*214 %*	*52-141*			"	"	"	"	*QS-4*

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-16 (CWH1094-21) Soil Sampled: 08/28/13 10:21 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*90 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*85 %*		*52-141*	"	"	"	"	
F-6 (CWH1094-22) Soil Sampled: 08/28/13 10:31 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	ND	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-6 (CWH1094-22) Soil Sampled: 08/28/13 10:31 Received: 08/28/13 16:30									
4,4´-DDD	ND	33	µg/kg	10	CW05678	"	09/02/13	EPA 8081A	
4,4´-DDE	ND	33	"	"	"	"	"	"	
4,4´-DDT	ND	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*92 %*	*46-139*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*81 %*	*52-141*		"	"	"	"	
Pile 1 (CWH1094-23) Soil Sampled: 08/28/13 08:42 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**99**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**230**	33	"	"	"	"	"	"	
4,4´-DDT	**180**	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 1 (CWH1094-23) Soil Sampled: 08/28/13 08:42 Received: 08/28/13 16:30									
Endosulfan sulfate	ND	33	µg/kg	10	CW05678	"	09/02/13	EPA 8081A	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*81 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*86 %*		*52-141*	"	"	"	"	
Pile 2 (CWH1094-24) Soil Sampled: 08/28/13 07:53 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**48**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**140**	33	"	"	"	"	"	"	
4,4´-DDT	**44**	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	

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Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 2 (CWH1094-24) Soil Sampled: 08/28/13 07:53 Received: 08/28/13 16:30									
Mirex	ND	33	µg/kg	10	CW05678	"	09/02/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*83 %*	*46-139*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*89 %*	*52-141*		"	"	"	"	
Pile 3-1 (CWH1094-25) Soil Sampled: 08/28/13 08:18 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**43**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**120**	33	"	"	"	"	"	"	
4,4´-DDT	**81**	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*88 %*	*46-139*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*92 %*	*52-141*		"	"	"	"	

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Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 3-2 (CWH1094-26) Soil Sampled: 08/28/13 08:21 Received: 08/28/13 16:30									
Aldrin	ND	17	µg/kg	10	CW05678	08/29/13	09/02/13	EPA 8081A	
alpha-BHC	ND	17	"	"	"	"	"	"	
beta-BHC	**110**	17	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	17	"	"	"	"	"	"	
delta-BHC	ND	17	"	"	"	"	"	"	
Chlordane-technical	ND	33	"	"	"	"	"	"	
4,4´-DDD	ND	33	"	"	"	"	"	"	
4,4´-DDE	**260**	33	"	"	"	"	"	"	
4,4´-DDT	**200**	33	"	"	"	"	"	"	
Dieldrin	ND	30	"	"	"	"	"	"	
Endosulfan I	ND	17	"	"	"	"	"	"	
Endosulfan II	ND	33	"	"	"	"	"	"	
Endosulfan sulfate	ND	33	"	"	"	"	"	"	
Endrin	ND	33	"	"	"	"	"	"	
Endrin aldehyde	ND	33	"	"	"	"	"	"	
Heptachlor	ND	17	"	"	"	"	"	"	
Heptachlor epoxide	ND	17	"	"	"	"	"	"	
Methoxychlor	ND	170	"	"	"	"	"	"	
Mirex	ND	33	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*78 %*	*46-139*		*"*	*"*	*"*	*"*	
Surrogate: Decachlorobiphenyl		*75 %*	*52-141*		*"*	*"*	*"*	*"*	

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COC #:

Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-1 (CWH1094-01) Soil Sampled: 08/28/13 08:52 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*53 %*		*50-150*		"	"	"	
SW-2 (CWH1094-02) Soil Sampled: 08/28/13 08:54 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*65 %*		*50-150*		"	"	"	
SW-3 (CWH1094-03) Soil Sampled: 08/28/13 09:03 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	

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COC #:

Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-3 (CWH1094-03) Soil Sampled: 08/28/13 09:03 Received: 08/28/13 16:30									
Aroclor 1268	ND	20	µg/kg	1	CW05679	"	08/30/13	EPA 8082A	
Surrogate: Decachlorobiphenyl		*58 %*	*50-150*		"	"	"	"	
F-1 (CWH1094-04) Soil Sampled: 08/28/13 09:05 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*57 %*	*50-150*		"	"	"	"	
SW-4 (CWH1094-05) Soil Sampled: 08/28/13 09:10 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*60 %*	*50-150*		"	"	"	"	

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COC #:

Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-5 (CWH1094-06) Soil Sampled: 08/28/13 09:20 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*50 %*	*50-150*		"	"	"	"	
SW-6 (CWH1094-07) Soil Sampled: 08/28/13 09:15 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*15 %*	*50-150*		"	"	"	"	*QS-4*
F-2 (CWH1094-08) Soil Sampled: 08/28/13 09:25 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	

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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
F-2 (CWH1094-08) Soil Sampled: 08/28/13 09:25 Received: 08/28/13 16:30									
Aroclor 1268	ND	20	µg/kg	1	CW05679	"	08/30/13	EPA 8082A	
Surrogate: Decachlorobiphenyl		*51 %*	*50-150*		"	"	"	"	
SW-8 (CWH1094-10) Soil Sampled: 08/28/13 09:51 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*56 %*	*50-150*		"	"	"	"	
SW-9 (CWH1094-11) Soil Sampled: 08/28/13 09:53 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*56 %*	*50-150*		"	"	"	"	

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COC #:

Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-10 (CWH1094-12) Soil Sampled: 08/28/13 09:58 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*57 %*		*50-150*		"	"	"	
F-4 (CWH1094-14) Soil Sampled: 08/28/13 09:55 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*9 %*		*50-150*		"	"	"	*QS-4*
Pile 1 (CWH1094-23) Soil Sampled: 08/28/13 08:42 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	

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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 1 (CWH1094-23) Soil Sampled: 08/28/13 08:42 Received: 08/28/13 16:30									
Aroclor 1268	ND	20	µg/kg	1	CW05679	"	08/30/13	EPA 8082A	
Surrogate: Decachlorobiphenyl		*58 %*	*50-150*		"	"	"	"	
Pile 2 (CWH1094-24) Soil Sampled: 08/28/13 07:53 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*56 %*	*50-150*		"	"	"	"	
Pile 3-1 (CWH1094-25) Soil Sampled: 08/28/13 08:18 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*56 %*	*50-150*		"	"	"	"	

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Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 3-2 (CWH1094-26) Soil Sampled: 08/28/13 08:21 Received: 08/28/13 16:30									
Aroclor 1016	ND	20	µg/kg	1	CW05679	08/29/13	08/30/13	EPA 8082A	
Aroclor 1221	ND	20	"	"	"	"	"	"	
Aroclor 1232	ND	20	"	"	"	"	"	"	
Aroclor 1242	ND	20	"	"	"	"	"	"	
Aroclor 1248	ND	20	"	"	"	"	"	"	
Aroclor 1254	ND	20	"	"	"	"	"	"	
Aroclor 1260	ND	20	"	"	"	"	"	"	
Aroclor 1268	ND	20	"	"	"	"	"	"	
Surrogate: Decachlorobiphenyl		*37 %*		*50-150*	"	"	"	"	*QS-4*

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COC #:

TPH-Gasoline by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 1 (CWH1094-23) Soil Sampled: 08/28/13 08:42 Received: 08/28/13 16:30									
Gasoline	ND	0.20	mg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260M	
Surrogate: Toluene-d8		*84 %*		*65-135*		"	"	"	"
Pile 2 (CWH1094-24) Soil Sampled: 08/28/13 07:53 Received: 08/28/13 16:30									
Gasoline	ND	0.20	mg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260M	
Surrogate: Toluene-d8		*84 %*		*65-135*		"	"	"	"
Pile 3-1 (CWH1094-25) Soil Sampled: 08/28/13 08:18 Received: 08/28/13 16:30									
Gasoline	ND	0.20	mg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260M	
Surrogate: Toluene-d8		*90 %*		*65-135*		"	"	"	"
Pile 3-2 (CWH1094-26) Soil Sampled: 08/28/13 08:21 Received: 08/28/13 16:30									
Gasoline	ND	0.20	mg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260M	
Surrogate: Toluene-d8		*90 %*		*65-135*		"	"	"	"

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CLS Work Order #: CWH1094
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 1 (CWH1094-23) Soil Sampled: 08/28/13 08:42 Received: 08/28/13 16:30									
Benzene	ND	5.0	µg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: Toluene-d8		*84 %*		*60-140*		"	"	"	
Pile 2 (CWH1094-24) Soil Sampled: 08/28/13 07:53 Received: 08/28/13 16:30									
Benzene	ND	5.0	µg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: Toluene-d8		*84 %*		*60-140*		"	"	"	
Pile 3-1 (CWH1094-25) Soil Sampled: 08/28/13 08:18 Received: 08/28/13 16:30									
Benzene	ND	5.0	µg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90 %*		*60-140*		"	"	"	
Pile 3-2 (CWH1094-26) Soil Sampled: 08/28/13 08:21 Received: 08/28/13 16:30									
Benzene	ND	5.0	µg/kg	1	CW05701	08/29/13	08/29/13	EPA 8260B	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: Toluene-d8		*90 %*		*60-140*		"	"	"	

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CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05668 - EPA 3050B										
Blank (CW05668-BLK1)				Prepared & Analyzed: 08/29/13						
Arsenic	ND	0.10	mg/kg							
Selenium	ND	0.25	"							
Thallium	ND	0.10	"							
LCS (CW05668-BS1)				Prepared & Analyzed: 08/29/13						
Arsenic	4.23	0.10	mg/kg	5.00		85	75-125			
Selenium	3.82	0.25	"	5.00		76	75-125			
Thallium	5.30	0.10	"	5.00		106	75-125			
Matrix Spike (CW05668-MS1)		**Source: CWH1008-05**		Prepared & Analyzed: 08/29/13						
Arsenic	7.14	1.0	mg/kg	5.00	2.54	92	75-125			
Selenium	3.67	2.5	"	5.00	ND	73	75-125			QM-5
Thallium	5.71	1.0	"	5.00	0.110	112	75-125			
Matrix Spike Dup (CW05668-MSD1)		**Source: CWH1008-05**		Prepared & Analyzed: 08/29/13						
Arsenic	6.69	1.0	mg/kg	5.00	2.54	83	75-125	7	30	
Selenium	3.52	2.5	"	5.00	ND	70	75-125	4	30	QM-5
Thallium	5.42	1.0	"	5.00	0.110	106	75-125	5	30	
Batch CW05670 - EPA 3050B										
Blank (CW05670-BLK1)				Prepared & Analyzed: 08/29/13						
Antimony	ND	2.5	mg/kg							
Barium	ND	1.0	"							
Beryllium	ND	0.50	"							
Cadmium	ND	0.50	"							
Cobalt	ND	1.0	"							
Chromium	ND	1.0	"							
Copper	ND	1.0	"							
Lead	ND	2.5	"							
Molybdenum	ND	1.0	"							
Nickel	ND	1.0	"							
Silver	ND	0.50	"							

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CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05670 - EPA 3050B										
Blank (CW05670-BLK1)				Prepared & Analyzed: 08/29/13						
Vanadium	ND	1.0	mg/kg							
Zinc	ND	1.0	"							
LCS (CW05670-BS1)				Prepared & Analyzed: 08/29/13						
Antimony	26.2	2.5	mg/kg	25.0		105	75-125			
Barium	25.6	1.0	"	25.0		102	75-125			
Beryllium	27.5	0.50	"	25.0		110	75-125			
Cadmium	25.9	0.50	"	25.0		104	75-125			
Cobalt	28.2	1.0	"	25.0		113	75-125			
Chromium	29.9	1.0	"	25.0		120	75-125			
Copper	25.3	1.0	"	25.0		101	75-125			
Lead	26.0	2.5	"	25.0		104	75-125			
Molybdenum	27.4	1.0	"	25.0		110	75-125			
Nickel	27.8	1.0	"	25.0		111	75-125			
Silver	26.3	0.50	"	25.0		105	75-125			
Vanadium	13.6	1.0	"	12.5		109	75-125			
Zinc	27.0	1.0	"	25.0		108	75-125			
Matrix Spike (CW05670-MS1)		**Source: CWH1008-05**		Prepared & Analyzed: 08/29/13						
Antimony	12.0	2.5	mg/kg	25.0	ND	48	75-125			QM-5
Barium	160	1.0	"	25.0	121	153	75-125			QM-4X
Beryllium	26.2	0.50	"	25.0	0.346	104	75-125			
Cadmium	24.7	0.50	"	25.0	ND	99	75-125			
Cobalt	33.3	1.0	"	25.0	7.77	102	75-125			
Chromium	51.3	1.0	"	25.0	22.8	114	75-125			
Copper	42.4	1.0	"	25.0	17.1	101	75-125			
Lead	30.3	2.5	"	25.0	9.62	83	75-125			
Molybdenum	24.4	1.0	"	25.0	0.940	94	75-125			
Nickel	45.6	1.0	"	25.0	20.3	101	75-125			
Silver	24.3	0.50	"	25.0	0.235	96	75-125			
Vanadium	56.1	1.0	"	12.5	41.1	120	75-125			
Zinc	57.0	1.0	"	25.0	29.1	112	75-125			

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CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05670 - EPA 3050B										
Matrix Spike Dup (CW05670-MSD1)		**Source: CWH1008-05**		Prepared & Analyzed: 08/29/13						
Antimony	9.30	2.5	mg/kg	25.0	ND	37	75-125	25	30	QM-5
Barium	169	1.0	"	25.0	121	189	75-125	5	30	QM-4X
Beryllium	26.2	0.50	"	25.0	0.346	103	75-125	0.1	30	
Cadmium	25.0	0.50	"	25.0	ND	100	75-125	1	30	
Cobalt	34.5	1.0	"	25.0	7.77	107	75-125	4	30	
Chromium	53.5	1.0	"	25.0	22.8	123	75-125	4	30	
Copper	42.9	1.0	"	25.0	17.1	103	75-125	1	30	
Lead	32.8	2.5	"	25.0	9.62	93	75-125	8	30	
Molybdenum	23.7	1.0	"	25.0	0.940	91	75-125	3	30	
Nickel	47.8	1.0	"	25.0	20.3	110	75-125	5	30	
Silver	24.8	0.50	"	25.0	0.235	98	75-125	2	30	
Vanadium	59.1	1.0	"	12.5	41.1	144	75-125	5	30	QM-5
Zinc	59.6	1.0	"	25.0	29.1	122	75-125	4	30	
Batch CW05713 - EPA 7471A										
Blank (CW05713-BLK1)				Prepared & Analyzed: 08/30/13						
Mercury	ND	0.10	mg/kg							
LCS (CW05713-BS1)				Prepared & Analyzed: 08/30/13						
Mercury	0.247	0.10	mg/kg	0.250		99	75-125			
Matrix Spike (CW05713-MS1)		**Source: CWH1008-05**		Prepared & Analyzed: 08/30/13						
Mercury	0.250	0.10	mg/kg	0.250	ND	100	75-125			
Matrix Spike Dup (CW05713-MSD1)		**Source: CWH1008-05**		Prepared & Analyzed: 08/30/13						
Mercury	0.271	0.10	mg/kg	0.250	ND	108	75-125	8	25	

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COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05646 - CA LUFT - orb shaker										
Blank (CW05646-BLK1)				Prepared: 08/28/13 Analyzed: 08/29/13						
Diesel	ND	1.0	mg/kg							
Motor Oil	ND	1.0	"							
Surrogate: o-Terphenyl	*0.655*		*"*	*0.500*		*131*	*65-135*			
LCS (CW05646-BS1)				Prepared: 08/28/13 Analyzed: 08/29/13						
Diesel	54.8	1.0	mg/kg	50.0		110	65-135			
Surrogate: o-Terphenyl	*0.645*		*"*	*0.500*		*129*	*65-135*			
LCS Dup (CW05646-BSD1)				Prepared: 08/28/13 Analyzed: 08/29/13						
Diesel	49.8	1.0	mg/kg	50.0		100	65-135	10	30	
Surrogate: o-Terphenyl	*0.631*		*"*	*0.500*		*126*	*65-135*			
Matrix Spike (CW05646-MS1)		**Source: CWH1008-05**		Prepared: 08/28/13 Analyzed: 08/29/13						
Diesel	46.9	1.0	mg/kg	50.0	ND	94	59-138			
Surrogate: o-Terphenyl	*0.641*		*"*	*0.500*		*128*	*65-135*			
Matrix Spike Dup (CW05646-MSD1)		**Source: CWH1008-05**		Prepared: 08/28/13 Analyzed: 08/29/13						
Diesel	53.7	1.0	mg/kg	50.0	ND	107	59-138	13	37	
Surrogate: o-Terphenyl	*0.622*		*"*	*0.500*		*124*	*65-135*			

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05677 - LUFT-DHS GCNV										
Blank (CW05677-BLK1)				Prepared: 08/29/13 Analyzed: 09/02/13						
Aldrin	ND	1.7	µg/kg							
alpha-BHC	ND	1.7	"							
beta-BHC	ND	1.7	"							
gamma-BHC (Lindane)	ND	1.7	"							
delta-BHC	ND	1.7	"							
Chlordane-technical	ND	3.3	"							
4,4´-DDD	ND	3.3	"							
4,4´-DDE	ND	3.3	"							
4,4´-DDT	ND	3.3	"							
Dieldrin	ND	3.0	"							
Endosulfan I	ND	1.7	"							
Endosulfan II	ND	3.3	"							
Endosulfan sulfate	ND	3.3	"							
Endrin	ND	3.3	"							
Endrin aldehyde	ND	3.3	"							
Heptachlor	ND	1.7	"							
Heptachlor epoxide	ND	1.7	"							
Methoxychlor	ND	17	"							
Mirex	ND	3.3	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	*6.91*		*"*	*8.33*		*83*	*46-139*			
Surrogate: Decachlorobiphenyl	*8.26*		*"*	*8.33*		*99*	*52-141*			
LCS (CW05677-BS1)				Prepared: 08/29/13 Analyzed: 09/02/13						
Aldrin	13.7	1.7	µg/kg	16.7		82	47-132			
gamma-BHC (Lindane)	13.1	1.7	"	16.7		79	56-133			
4,4´-DDT	14.9	3.3	"	16.7		90	46-137			
Dieldrin	14.7	3.0	"	16.7		88	44-143			
Endrin	13.6	3.3	"	16.7		82	30-147			
Heptachlor	12.7	1.7	"	16.7		76	33-148			
Surrogate: Tetrachloro-meta-xylene	*7.40*		*"*	*8.33*		*89*	*46-139*			

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05677 - LUFT-DHS GCNV										
LCS (CW05677-BS1)				Prepared: 08/29/13 Analyzed: 09/02/13						
Surrogate: Decachlorobiphenyl	*8.34*		*µg/kg*	*8.33*		*100*	*52-141*			
LCS Dup (CW05677-BSD1)				Prepared: 08/29/13 Analyzed: 09/02/13						
Aldrin	13.0	1.7	µg/kg	16.7		78	47-132	5	30	
gamma-BHC (Lindane)	12.7	1.7	"	16.7		76	56-133	3	30	
4,4´-DDT	15.0	3.3	"	16.7		90	46-137	0.4	30	
Dieldrin	14.5	3.0	"	16.7		87	44-143	1	30	
Endrin	13.8	3.3	"	16.7		83	30-147	0.9	30	
Heptachlor	12.1	1.7	"	16.7		73	33-148	5	30	
Surrogate: Tetrachloro-meta-xylene	*6.79*		*"*	*8.33*		*81*	*46-139*			
Surrogate: Decachlorobiphenyl	*8.80*		*"*	*8.33*		*106*	*52-141*			
Matrix Spike (CW05677-MS1)		**Source: CWH1094-20**		Prepared: 08/29/13 Analyzed: 09/02/13						
Aldrin	18.9	17	µg/kg	16.7	ND	113	47-138			
gamma-BHC (Lindane)	20.3	17	"	16.7	8.50	71	38-144			
4,4´-DDT	59.6	33	"	16.7	49.5	60	41-157			
Dieldrin	20.7	30	"	16.7	ND	124	46-155			
Endrin	27.4	33	"	16.7	ND	164	34-149			QM-7
Heptachlor	16.9	17	"	16.7	ND	101	36-155			
Surrogate: Tetrachloro-meta-xylene	*20.5*		*"*	*20.8*		*98*	*46-139*			
Surrogate: Decachlorobiphenyl	*37.2*		*"*	*20.8*		*179*	*52-141*			*QS-4*
Matrix Spike Dup (CW05677-MSD1)		**Source: CWH1094-20**		Prepared: 08/29/13 Analyzed: 09/02/13						
Aldrin	18.1	17	µg/kg	16.7	ND	109	47-138	4	35	
gamma-BHC (Lindane)	19.2	17	"	16.7	8.50	64	38-144	6	35	
4,4´-DDT	55.7	33	"	16.7	49.5	37	41-157	7	35	QM-7
Dieldrin	19.2	30	"	16.7	ND	115	46-155	7	35	
Endrin	20.4	33	"	16.7	ND	123	34-149	29	35	
Heptachlor	15.9	17	"	16.7	ND	95	36-155	6	35	
Surrogate: Tetrachloro-meta-xylene	*19.5*		*"*	*20.8*		*94*	*46-139*			
Surrogate: Decachlorobiphenyl	*38.8*		*"*	*20.8*		*186*	*52-141*			*QS-4*

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05678 - LUFT-DHS GCNV										
Blank (CW05678-BLK1)				Prepared: 08/29/13 Analyzed: 09/02/13						
Aldrin	ND	1.7	µg/kg							
alpha-BHC	ND	1.7	"							
beta-BHC	ND	1.7	"							
gamma-BHC (Lindane)	ND	1.7	"							
delta-BHC	ND	1.7	"							
Chlordane-technical	ND	3.3	"							
4,4´-DDD	ND	3.3	"							
4,4´-DDE	ND	3.3	"							
4,4´-DDT	ND	3.3	"							
Dieldrin	ND	3.0	"							
Endosulfan I	ND	1.7	"							
Endosulfan II	ND	3.3	"							
Endosulfan sulfate	ND	3.3	"							
Endrin	ND	3.3	"							
Endrin aldehyde	ND	3.3	"							
Heptachlor	ND	1.7	"							
Heptachlor epoxide	ND	1.7	"							
Methoxychlor	ND	17	"							
Mirex	ND	3.3	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	*7.51*		*"*	*8.33*		*90*	*46-139*			
Surrogate: Decachlorobiphenyl	*7.92*		*"*	*8.33*		*95*	*52-141*			
LCS (CW05678-BS1)				Prepared: 08/29/13 Analyzed: 09/02/13						
Aldrin	13.9	1.7	µg/kg	16.7		83	47-132			
gamma-BHC (Lindane)	14.4	1.7	"	16.7		86	56-133			
4,4´-DDT	14.7	3.3	"	16.7		88	46-137			
Dieldrin	14.5	3.0	"	16.7		87	44-143			
Endrin	13.0	3.3	"	16.7		78	30-147			
Heptachlor	14.5	1.7	"	16.7		87	33-148			
Surrogate: Tetrachloro-meta-xylene	*6.81*		*"*	*8.33*		*82*	*46-139*			

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Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05678 - LUFT-DHS GCNV										
LCS (CW05678-BS1)				Prepared: 08/29/13 Analyzed: 09/02/13						
Surrogate: Decachlorobiphenyl	*7.63*		*µg/kg*	*8.33*		*92*	*52-141*			
LCS Dup (CW05678-BSD1)				Prepared: 08/29/13 Analyzed: 09/02/13						
Aldrin	14.4	1.7	µg/kg	16.7		86	47-132	4	30	
gamma-BHC (Lindane)	14.8	1.7	"	16.7		89	56-133	3	30	
4,4´-DDT	15.1	3.3	"	16.7		90	46-137	2	30	
Dieldrin	14.8	3.0	"	16.7		89	44-143	2	30	
Endrin	13.3	3.3	"	16.7		80	30-147	2	30	
Heptachlor	15.0	1.7	"	16.7		90	33-148	3	30	
Surrogate: Tetrachloro-meta-xylene	*6.80*		*"*	*8.33*		*82*	*46-139*			
Surrogate: Decachlorobiphenyl	*7.50*		*"*	*8.33*		*90*	*52-141*			
Matrix Spike (CW05678-MS1)		**Source: CWH1094-26**		Prepared: 08/29/13 Analyzed: 09/02/13						
Aldrin	13.5	17	µg/kg	16.7	ND	81	47-138			
gamma-BHC (Lindane)	23.6	17	"	16.7	ND	142	38-144			
4,4´-DDT	254	33	"	16.7	197	341	41-157			QM-7
Dieldrin	14.4	30	"	16.7	ND	87	46-155			
Endrin	12.6	33	"	16.7	ND	75	34-149			
Heptachlor	15.3	17	"	16.7	ND	92	36-155			
Surrogate: Tetrachloro-meta-xylene	*19.2*		*"*	*20.8*		*92*	*46-139*			
Surrogate: Decachlorobiphenyl	*20.0*		*"*	*20.8*		*96*	*52-141*			
Matrix Spike Dup (CW05678-MSD1)		**Source: CWH1094-26**		Prepared: 08/29/13 Analyzed: 09/02/13						
Aldrin	11.1	17	µg/kg	16.7	ND	67	47-138	20	35	
gamma-BHC (Lindane)	19.2	17	"	16.7	ND	115	38-144	21	35	
4,4´-DDT	209	33	"	16.7	197	74	41-157	19	35	
Dieldrin	11.5	30	"	16.7	ND	69	46-155	23	35	
Endrin	9.77	33	"	16.7	ND	59	34-149	25	35	
Heptachlor	12.2	17	"	16.7	ND	73	36-155	23	35	
Surrogate: Tetrachloro-meta-xylene	*16.0*		*"*	*20.8*		*77*	*46-139*			
Surrogate: Decachlorobiphenyl	*14.8*		*"*	*20.8*		*71*	*52-141*			

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COC #:

Polychlorinated Biphenyls by EPA Method 8082A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05679 - LUFT-DHS GCNV										
Blank (CW05679-BLK1)				Prepared: 08/29/13 Analyzed: 08/30/13						
Aroclor 1016	ND	20	µg/kg							
Aroclor 1221	ND	20	"							
Aroclor 1232	ND	20	"							
Aroclor 1242	ND	20	"							
Aroclor 1248	ND	20	"							
Aroclor 1254	ND	20	"							
Aroclor 1260	ND	20	"							
Aroclor 1268	ND	20	"							
Surrogate: Decachlorobiphenyl	*7.03*		*"*	*8.33*		*84*	*50-150*			
LCS (CW05679-BS1)				Prepared: 08/29/13 Analyzed: 08/30/13						
Aroclor 1260	76.4	20	µg/kg	83.3		92	29-131			
Surrogate: Decachlorobiphenyl	*7.18*		*"*	*8.33*		*86*	*50-150*			
LCS Dup (CW05679-BSD1)				Prepared: 08/29/13 Analyzed: 08/30/13						
Aroclor 1260	76.6	20	µg/kg	83.3		92	29-131	0.3	30	
Surrogate: Decachlorobiphenyl	*7.15*		*"*	*8.33*		*86*	*50-150*			
Matrix Spike (CW05679-MS1)		**Source: CWH1094-01**		Prepared: 08/29/13 Analyzed: 08/30/13						
Aroclor 1260	81.0	20	µg/kg	83.3	ND	97	29-131			
Surrogate: Decachlorobiphenyl	*4.65*		*"*	*8.33*		*56*	*50-150*			
Matrix Spike Dup (CW05679-MSD1)		**Source: CWH1094-01**		Prepared: 08/29/13 Analyzed: 08/30/13						
Aroclor 1260	80.0	20	µg/kg	83.3	ND	96	29-131	1	30	
Surrogate: Decachlorobiphenyl	*5.97*		*"*	*8.33*		*72*	*50-150*			

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TPH-Gasoline by GC/MS - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05701 - EPA 5030 Soil MS										
Blank (CW05701-BLK1)				Prepared & Analyzed: 08/29/13						
Gasoline	ND	0.20	mg/kg							
Surrogate: Toluene-d8	*0.0254*		*"*	*0.0300*		*85*	*65-135*			
LCS (CW05701-BS1)				Prepared & Analyzed: 08/29/13						
Gasoline	4.42	0.20	mg/kg	4.00		111	65-135			
Surrogate: Toluene-d8	*0.0269*		*"*	*0.0300*		*90*	*65-135*			
LCS Dup (CW05701-BSD1)				Prepared & Analyzed: 08/29/13						
Gasoline	4.53	0.20	mg/kg	4.00		113	65-135	2	30	
Surrogate: Toluene-d8	*0.0271*		*"*	*0.0300*		*90*	*65-135*			
Matrix Spike (CW05701-MS1)		**Source: CWH1094-26**		Prepared & Analyzed: 08/29/13						
Gasoline	5.09	0.20	mg/kg	5.00	ND	102	63-124			
Surrogate: Toluene-d8	*0.0258*		*"*	*0.0300*		*86*	*65-135*			
Matrix Spike Dup (CW05701-MSD1)		**Source: CWH1094-26**		Prepared: 08/29/13 Analyzed: 08/30/13						
Gasoline	4.87	0.20	mg/kg	5.00	ND	97	63-124	4	35	
Surrogate: Toluene-d8	*0.0247*		*"*	*0.0300*		*82*	*65-135*			

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWH1094
COC #:

Volatile Organic Compounds by EPA Method 8260B - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05701 - EPA 5030 Soil MS										
Blank (CW05701-BLK1)				Prepared & Analyzed: 08/29/13						
Benzene	ND	5.0	µg/kg							
Ethylbenzene	ND	5.0	"							
Toluene	ND	5.0	"							
Xylenes (total)	ND	10	"							
Surrogate: Toluene-d8	*25.4*		*"*	*30.0*		*85*	*60-140*			
LCS (CW05701-BS1)				Prepared & Analyzed: 08/29/13						
Methyl tert-butyl ether	23.6	5.0	µg/kg	20.0		118	60-140			
Benzene	20.2	5.0	"	20.0		101	60-140			
Surrogate: Toluene-d8	*26.9*		*"*	*30.0*		*90*	*60-140*			
LCS Dup (CW05701-BSD1)				Prepared & Analyzed: 08/29/13						
Methyl tert-butyl ether	20.6	5.0	µg/kg	20.0		103	60-140	14	30	
Benzene	18.0	5.0	"	20.0		90	60-140	12	30	
Surrogate: Toluene-d8	*27.1*		*"*	*30.0*		*90*	*60-140*			

Tetra Tech Geo	Project: 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWH1094**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Notes and Definitions

QS-4	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
QM-5	The spike recovery was outside acceptance limits for the MS and/or MSD due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
EXT-3	The sample extract has undergone silica-gel clean-up, EPA Method 3630, which is specific to polar compound contamination.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 13, 2013

CLS Work Order #: CWI0378
COC #:

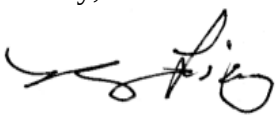
Tim Costello
Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project Name: VOP- 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 09/10/13 14:15. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



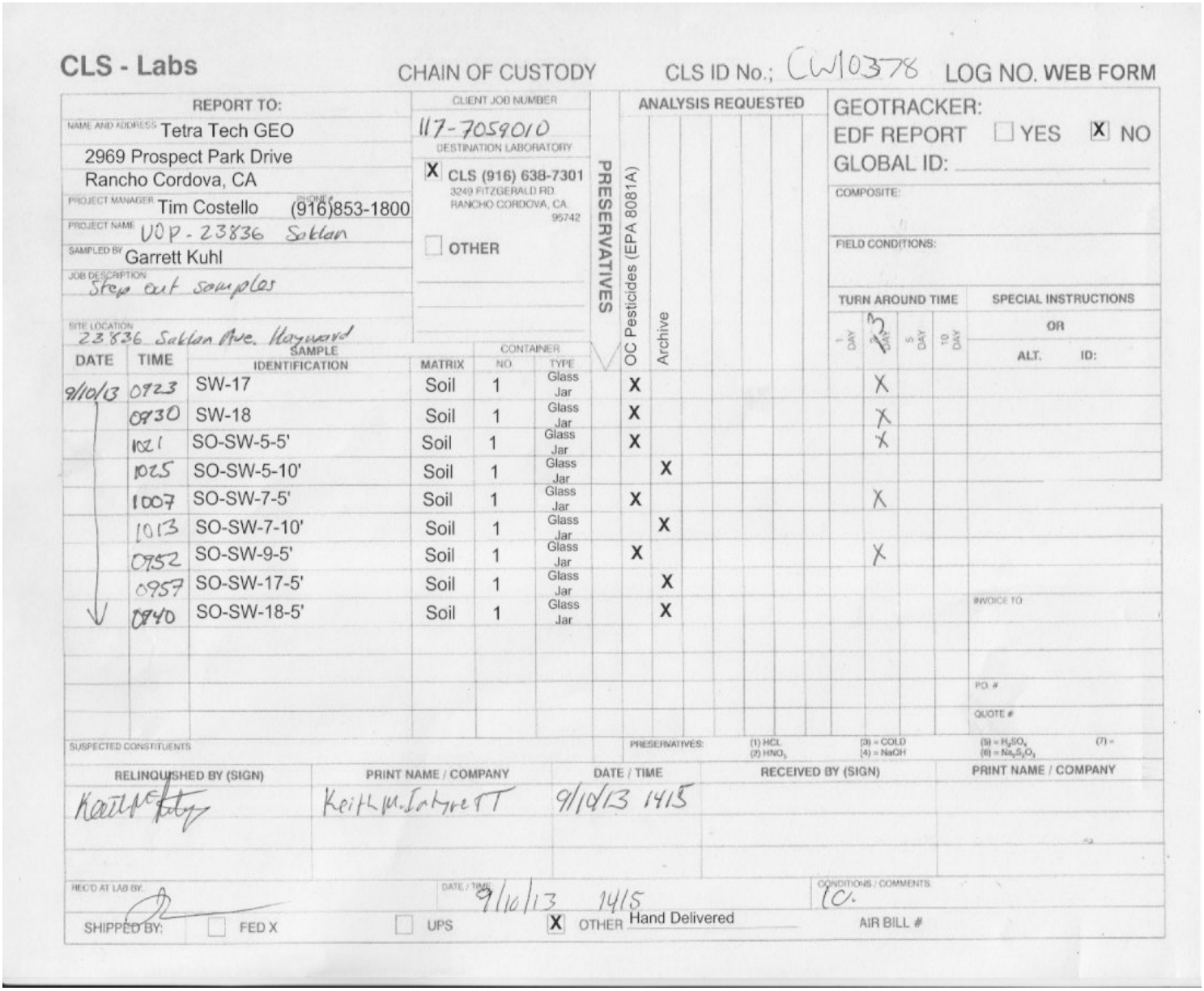
James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

09/13/13 10:54

Tetra Tech Geo	Project: VOP- 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010	**CLS Work Order #: CWI0378**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:



CLS - Labs

CHAIN OF CUSTODY

CLS ID No.: CWI0378 LOG NO. WEB FORM

REPORT TO:
NAME AND ADDRESS: Tetra Tech GEO
2969 Prospect Park Drive
Rancho Cordova, CA
PROJECT MANAGER: Tim Costello PHONE #: (916)853-1800
PROJECT NAME: VOP - 23836 Saklan
SAMPLED BY: Garrett Kuhl
JOB DESCRIPTION: Step out samples
SITE LOCATION: 23836 Saklan Ave. Hayward

CLIENT JOB NUMBER: 117-7059010
DESTINATION LABORATORY:
X CLS (916) 638-7301
3249 FITZGERALD RD.
RANCHO CORDOVA, CA. 95742
OTHER

PRESERVATIVES

ANALYSIS REQUESTED: OC Pesticides (EPA 8081A); Archive

GEOTRACKER:
EDF REPORT ☐ YES ☒ NO
GLOBAL ID:
COMPOSITE:
FIELD CONDITIONS:

TURN AROUND TIME: 1 DAY; 2 DAY; 5 DAY; 10 DAY
SPECIAL INSTRUCTIONS
OR
ALT. ID:

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO.	CONTAINER TYPE	OC Pesticides (EPA 8081A)	Archive	2 DAY
9/10/13	0923	SW-17	Soil	1	Glass Jar	X		X
	0930	SW-18	Soil	1	Glass Jar	X		X
	1021	SO-SW-5-5'	Soil	1	Glass Jar	X		X
	1025	SO-SW-5-10'	Soil	1	Glass Jar		X	
	1007	SO-SW-7-5'	Soil	1	Glass Jar	X		X
	1013	SO-SW-7-10'	Soil	1	Glass Jar		X	
	0952	SO-SW-9-5'	Soil	1	Glass Jar	X		X
	0957	SO-SW-17-5'	Soil	1	Glass Jar		X	
	0940	SO-SW-18-5'	Soil	1	Glass Jar		X	

INVOICE TO:
P.O. #:
QUOTE #:

SUSPECTED CONSTITUENTS

PRESERVATIVES: (1) HCL (2) HNO_3 (3) = COLD (4) = NaOH (5) = H_2SO_4 (6) = $Na_2S_2O_3$ (7) =

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
Keith Lafferty	Keith M. Lafferty	9/10/13 1415		

REC'D AT LAB BY: DATE / TIME: 9/10/13 1415 CONDITIONS / COMMENTS: 10.

SHIPPED BY: ☐ FED X ☐ UPS ☒ OTHER Hand Delivered AIR BILL #

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP- 23836 Saklan
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWI0378
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-17 (CWI0378-01) Soil Sampled: 09/10/13 09:23 Received: 09/10/13 14:15									
Aldrin	ND	10	µg/kg	10	CW05984	09/11/13	09/12/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	**380**	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	**240**	150	"	"	"	"	"	"	
4,4´-DDT	**240**	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*71 %*	*46-139*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*91 %*	*52-141*		"	"	"	"	
SW-18 (CWI0378-02) Soil Sampled: 09/10/13 09:30 Received: 09/10/13 14:15									
Aldrin	ND	10	µg/kg	10	CW05984	09/11/13	09/12/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	**180**	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP- 23836 Saklan
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWI0378
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SW-18 (CWI0378-02) Soil Sampled: 09/10/13 09:30 Received: 09/10/13 14:15									
4,4´-DDD	ND	150	µg/kg	10	CW05984	"	09/12/13	EPA 8081A	
4,4´-DDE	**900**	380	"	25	"	"	"	"	
4,4´-DDT	**780**	380	"	"	"	"	"	"	
Dieldrin	ND	10	"	10	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*95 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*123 %*		*52-141*	"	"	"	"	
SO-SW-5-5' (CWI0378-03) Soil Sampled: 09/10/13 10:21 Received: 09/10/13 14:15									
Aldrin	ND	10	µg/kg	10	CW05984	09/11/13	09/12/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	**510**	250	"	25	"	"	"	"	
delta-BHC	ND	100	"	10	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	**570**	380	"	25	"	"	"	"	
4,4´-DDT	**630**	380	"	"	"	"	"	"	
Dieldrin	ND	10	"	10	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP- 23836 Saklan
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWI0378
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-5-5' (CWI0378-03) Soil Sampled: 09/10/13 10:21 Received: 09/10/13 14:15									
Endosulfan sulfate	ND	150	µg/kg	10	CW05984	"	09/12/13	EPA 8081A	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*94 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*121 %*		*52-141*	"	"	"	"	
SO-SW-7-5' (CWI0378-05) Soil Sampled: 09/10/13 10:07 Received: 09/10/13 14:15									
Aldrin	ND	10	µg/kg	10	CW05984	09/11/13	09/12/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	**190**	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4´-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
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Project: VOP- 23836 Saklan
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWI0378
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-7-5' (CWI0378-05) Soil Sampled: 09/10/13 10:07 Received: 09/10/13 14:15									
Mirex	ND	100	µg/kg	10	CW05984	"	09/12/13	EPA 8081A	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*92 %*	*46-139*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*132 %*	*52-141*		"	"	"	"	
SO-SW-9-5' (CWI0378-07) Soil Sampled: 09/10/13 09:52 Received: 09/10/13 14:15									
Aldrin	ND	10	µg/kg	10	CW05984	09/11/13	09/12/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	**390**	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	**170**	150	"	"	"	"	"	"	
4,4´-DDT	**160**	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*103 %*	*46-139*		"	"	"	"	
Surrogate: Decachlorobiphenyl		*132 %*	*52-141*		"	"	"	"	

Tetra Tech Geo
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Rancho Cordova, CA 95670

Project: VOP- 23836 Saklan
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWI0378
COC #:

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05984 - LUFT-DHS GCNV										
Blank (CW05984-BLK1)				Prepared: 09/11/13 Analyzed: 09/12/13						
Aldrin	ND	1.0	µg/kg							
alpha-BHC	ND	2.0	"							
beta-BHC	ND	10	"							
delta-BHC	ND	10	"							
gamma-BHC (Lindane)	ND	10	"							
Chlordane-technical	ND	20	"							
4,4´-DDD	ND	15	"							
4,4´-DDE	ND	15	"							
4,4´-DDT	ND	15	"							
Dieldrin	ND	1.0	"							
Endosulfan I	ND	15	"							
Endosulfan II	ND	15	"							
Endosulfan sulfate	ND	15	"							
Endrin	ND	15	"							
Endrin aldehyde	ND	15	"							
Heptachlor	ND	5.0	"							
Heptachlor epoxide	ND	2.0	"							
Methoxychlor	ND	15	"							
Mirex	ND	10	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	*6.68*		*"*	*8.33*		*80*	*46-139*			
Surrogate: Decachlorobiphenyl	*8.47*		*"*	*8.33*		*102*	*52-141*			
LCS (CW05984-BS1)				Prepared: 09/11/13 Analyzed: 09/12/13						
Aldrin	11.5	1.0	µg/kg	16.7		69	47-132			
gamma-BHC (Lindane)	11.6	10	"	16.7		69	56-133			
4,4´-DDT	17.4	15	"	16.7		104	46-137			
Dieldrin	13.8	1.0	"	16.7		83	44-143			
Endrin	14.0	15	"	16.7		84	30-147			
Heptachlor	13.8	5.0	"	16.7		83	33-148			
Surrogate: Tetrachloro-meta-xylene	*5.31*		*"*	*8.33*		*64*	*46-139*			

Tetra Tech Geo
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Project: VOP- 23836 Saklan
Project Number: 117-7059010
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CLS Work Order #: CWI0378
COC #:

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW05984 - LUFT-DHS GCNV										
LCS (CW05984-BS1)				Prepared: 09/11/13 Analyzed: 09/12/13						
Surrogate: Decachlorobiphenyl	*8.55*		*µg/kg*	*8.33*		*103*	*52-141*			
LCS Dup (CW05984-BSD1)				Prepared: 09/11/13 Analyzed: 09/12/13						
Aldrin	13.0	1.0	µg/kg	16.7		78	47-132	12	30	
gamma-BHC (Lindane)	13.1	10	"	16.7		79	56-133	13	30	
4,4´-DDT	16.9	15	"	16.7		101	46-137	3	30	
Dieldrin	13.7	1.0	"	16.7		82	44-143	0.1	30	
Endrin	13.8	15	"	16.7		83	30-147	1	30	
Heptachlor	13.8	5.0	"	16.7		83	33-148	0.1	30	
Surrogate: Tetrachloro-meta-xylene	*6.33*		*"*	*8.33*		*76*	*46-139*			
Surrogate: Decachlorobiphenyl	*8.05*		*"*	*8.33*		*97*	*52-141*			
Matrix Spike (CW05984-MS1)		**Source: CWI0378-07**		Prepared: 09/11/13 Analyzed: 09/12/13						
Aldrin	20.5	10	µg/kg	16.7	ND	123	47-138			
gamma-BHC (Lindane)	68.5	100	"	16.7	41.0	165	38-144			QM-7
4,4´-DDT	208	150	"	16.7	159	290	41-157			QM-7
Dieldrin	21.3	10	"	16.7	ND	128	46-155			
Endrin	18.7	150	"	16.7	ND	112	34-149			
Heptachlor	37.8	50	"	16.7	ND	227	36-155			QM-7
Surrogate: Tetrachloro-meta-xylene	*23.2*		*"*	*20.8*		*112*	*46-139*			
Surrogate: Decachlorobiphenyl	*24.5*		*"*	*20.8*		*117*	*52-141*			
Matrix Spike Dup (CW05984-MSD1)		**Source: CWI0378-07**		Prepared: 09/11/13 Analyzed: 09/12/13						
Aldrin	17.3	10	µg/kg	16.7	ND	104	47-138	17	35	
gamma-BHC (Lindane)	55.3	100	"	16.7	41.0	86	38-144	21	35	
4,4´-DDT	179	150	"	16.7	159	119	41-157	15	35	
Dieldrin	19.1	10	"	16.7	ND	114	46-155	11	35	
Endrin	18.7	150	"	16.7	ND	112	34-149	0.2	35	
Heptachlor	30.6	50	"	16.7	ND	184	36-155	21	35	QM-7
Surrogate: Tetrachloro-meta-xylene	*20.9*		*"*	*20.8*		*100*	*46-139*			
Surrogate: Decachlorobiphenyl	*24.6*		*"*	*20.8*		*118*	*52-141*			

Tetra Tech Geo	Project: VOP- 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010	**CLS Work Order #: CWI0378**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Notes and Definitions

QM-7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS/LCSD recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 17, 2013

CLS Work Order #: CWI0577
COC #:

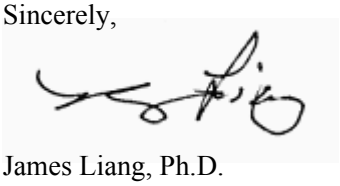
Tim Costello
Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project Name: VOP- 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 09/13/13 15:15. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

09/17/13 13:22

Tetra Tech Geo	Project: VOP- 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010	**CLS Work Order #: CWI0577**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

CHANGE OF STATUS CWI0577

CLS Labs Job # CWI 0378

Project Name: VOP

Date Sample(s) Were Received: 9/10/13 **Original Date** 9/13/13

Keith McIntyre (Client Contacted) of Tetra-Tech Geo (Company) emailed ~~called~~

on 9/13/13 (Date) at 1401 (Time).

... and requested the following:

Please run EDF for IA on:

SO-SW-17-5' (#5)
SO-SW-5-10' (#4)

Turnaround time requested for additional work: 2 day

(Signature) 9/13/13 (Date)

Updated lab job database and file folder by: WILL ORELLANA

Cc:

H:\WillOrellana\ChangeOfStatus.Doc

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP- 23836 Saklan
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWI0577
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-5-10' (CWI0577-04) Soil Sampled: 09/10/13 10:25 Received: 09/13/13 15:15									
Aldrin	ND	20	µg/kg	10	CW06086	09/14/13	09/16/13	EPA 8081A	
alpha-BHC	ND	40	"	"	"	"	"	"	
beta-BHC	**300**	200	"	"	"	"	"	"	
delta-BHC	ND	200	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	200	"	"	"	"	"	"	
Chlordane-technical	ND	400	"	"	"	"	"	"	
4,4´-DDD	ND	300	"	"	"	"	"	"	
4,4´-DDE	**430**	300	"	"	"	"	"	"	
4,4´-DDT	**350**	300	"	"	"	"	"	"	
Dieldrin	ND	20	"	"	"	"	"	"	
Endosulfan I	ND	300	"	"	"	"	"	"	
Endosulfan II	ND	300	"	"	"	"	"	"	
Endosulfan sulfate	ND	300	"	"	"	"	"	"	
Endrin	ND	300	"	"	"	"	"	"	
Endrin aldehyde	ND	300	"	"	"	"	"	"	
Heptachlor	ND	100	"	"	"	"	"	"	
Heptachlor epoxide	ND	40	"	"	"	"	"	"	
Methoxychlor	ND	300	"	"	"	"	"	"	
Mirex	ND	200	"	"	"	"	"	"	
Toxaphene	ND	400	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*53 %*	*46-139*		*"*	"	*"*	*"*	
Surrogate: Decachlorobiphenyl		*56 %*	*52-141*		*"*	"	*"*	*"*	
SO-SW-17-5' (CWI0577-08) Soil Sampled: 09/10/13 09:57 Received: 09/13/13 15:15									
Aldrin	ND	20	µg/kg	10	CW06086	09/14/13	09/16/13	EPA 8081A	
alpha-BHC	ND	40	"	"	"	"	"	"	
beta-BHC	ND	200	"	"	"	"	"	"	
delta-BHC	ND	200	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	200	"	"	"	"	"	"	
Chlordane-technical	ND	400	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP- 23836 Saklan
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWI0577
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-17-5' (CWI0577-08) Soil Sampled: 09/10/13 09:57 Received: 09/13/13 15:15									
4,4´-DDD	ND	300	µg/kg	10	CW06086	"	09/16/13	EPA 8081A	
4,4´-DDE	**540**	300	"	"	"	"	"	"	
4,4´-DDT	**320**	300	"	"	"	"	"	"	
Dieldrin	ND	20	"	"	"	"	"	"	
Endosulfan I	ND	300	"	"	"	"	"	"	
Endosulfan II	ND	300	"	"	"	"	"	"	
Endosulfan sulfate	ND	300	"	"	"	"	"	"	
Endrin	ND	300	"	"	"	"	"	"	
Endrin aldehyde	ND	300	"	"	"	"	"	"	
Heptachlor	ND	100	"	"	"	"	"	"	
Heptachlor epoxide	ND	40	"	"	"	"	"	"	
Methoxychlor	ND	300	"	"	"	"	"	"	
Mirex	ND	200	"	"	"	"	"	"	
Toxaphene	ND	400	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*60 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*103 %*		*52-141*	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP- 23836 Saklan
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWI0577
COC #:

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06086 - EPA method 3545										
Blank (CW06086-BLK1)				Prepared: 09/14/13 Analyzed: 09/16/13						
Aldrin	ND	2.0	µg/kg							
alpha-BHC	ND	4.0	"							
beta-BHC	ND	20	"							
delta-BHC	ND	20	"							
gamma-BHC (Lindane)	ND	20	"							
Chlordane-technical	ND	40	"							
4,4´-DDD	ND	30	"							
4,4´-DDE	ND	30	"							
4,4´-DDT	ND	30	"							
Dieldrin	ND	2.0	"							
Endosulfan I	ND	30	"							
Endosulfan II	ND	30	"							
Endosulfan sulfate	ND	30	"							
Endrin	ND	30	"							
Endrin aldehyde	ND	30	"							
Heptachlor	ND	10	"							
Heptachlor epoxide	ND	4.0	"							
Methoxychlor	ND	30	"							
Mirex	ND	20	"							
Toxaphene	ND	40	"							
Surrogate: Tetrachloro-meta-xylene	*23.2*		*"*	*33.3*		*70*	*46-139*			
Surrogate: Decachlorobiphenyl	*18.3*		*"*	*33.3*		*55*	*52-141*			
LCS (CW06086-BS1)				Prepared: 09/14/13 Analyzed: 09/16/13						
Aldrin	39.9	2.0	µg/kg	33.3		120	47-132			
gamma-BHC (Lindane)	33.9	20	"	33.3		102	56-133			
4,4´-DDT	42.3	30	"	33.3		127	46-137			
Dieldrin	30.7	2.0	"	33.3		92	44-143			
Endrin	30.1	30	"	33.3		90	30-147			
Heptachlor	28.9	10	"	33.3		87	33-148			
Surrogate: Tetrachloro-meta-xylene	*27.0*		*"*	*33.3*		*81*	*46-139*			

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP- 23836 Saklan
Project Number: 117-7059010
Project Manager: Tim Costello

CLS Work Order #: CWI0577
COC #:

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06086 - EPA method 3545										
LCS (CW06086-BS1)				Prepared: 09/14/13 Analyzed: 09/16/13						
Surrogate: Decachlorobiphenyl	*18.9*		*µg/kg*	*33.3*		*57*	*52-141*			
LCS Dup (CW06086-BSD1)				Prepared: 09/14/13 Analyzed: 09/16/13						
Aldrin	39.3	2.0	µg/kg	33.3		118	47-132	1	30	
gamma-BHC (Lindane)	33.1	20	"	33.3		99	56-133	2	30	
4,4´-DDT	42.0	30	"	33.3		126	46-137	0.7	30	
Dieldrin	30.6	2.0	"	33.3		92	44-143	0.6	30	
Endrin	29.5	30	"	33.3		88	30-147	2	30	
Heptachlor	27.8	10	"	33.3		83	33-148	4	30	
Surrogate: Tetrachloro-meta-xylene	*26.5*		*"*	*33.3*		*80*	*46-139*			
Surrogate: Decachlorobiphenyl	*18.6*		*"*	*33.3*		*56*	*52-141*			
Matrix Spike (CW06086-MS1)		**Source: CWI0577-08**		Prepared: 09/14/13 Analyzed: 09/16/13						
Aldrin	34.6	20	µg/kg	33.3	ND	104	47-138			
gamma-BHC (Lindane)	56.6	200	"	33.3	31.1	77	38-144			
4,4´-DDT	371	300	"	33.3	320	154	41-157			
Dieldrin	37.9	20	"	33.3	ND	114	46-155			
Endrin	96.7	300	"	33.3	69.4	82	34-149			
Heptachlor	43.2	100	"	33.3	ND	130	36-155			
Surrogate: Tetrachloro-meta-xylene	*19.7*		*"*	*33.3*		*59*	*46-139*			
Surrogate: Decachlorobiphenyl	*15.8*		*"*	*33.3*		*47*	*52-141*			*QS-4*
Matrix Spike Dup (CW06086-MSD1)		**Source: CWI0577-08**		Prepared: 09/14/13 Analyzed: 09/16/13						
Aldrin	34.3	20	µg/kg	33.3	ND	103	47-138	0.7	35	
gamma-BHC (Lindane)	55.6	200	"	33.3	31.1	74	38-144	2	35	
4,4´-DDT	360	300	"	33.3	320	123	41-157	3	35	
Dieldrin	37.1	20	"	33.3	ND	111	46-155	2	35	
Endrin	94.2	300	"	33.3	69.4	74	34-149	3	35	
Heptachlor	42.2	100	"	33.3	ND	127	36-155	2	35	
Surrogate: Tetrachloro-meta-xylene	*19.0*		*"*	*33.3*		*57*	*46-139*			
Surrogate: Decachlorobiphenyl	*23.6*		*"*	*33.3*		*71*	*52-141*			

Tetra Tech Geo	Project: VOP- 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010	**CLS Work Order #: CWI0577**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Notes and Definitions

QS-4	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 03, 2013

CLS Work Order #: CWI1128
COC #:

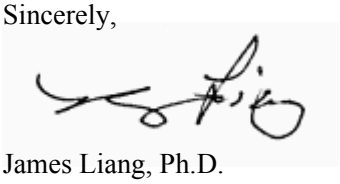
Tim Costello
Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project Name: VOP - Hayward 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 09/30/13 15:35. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,

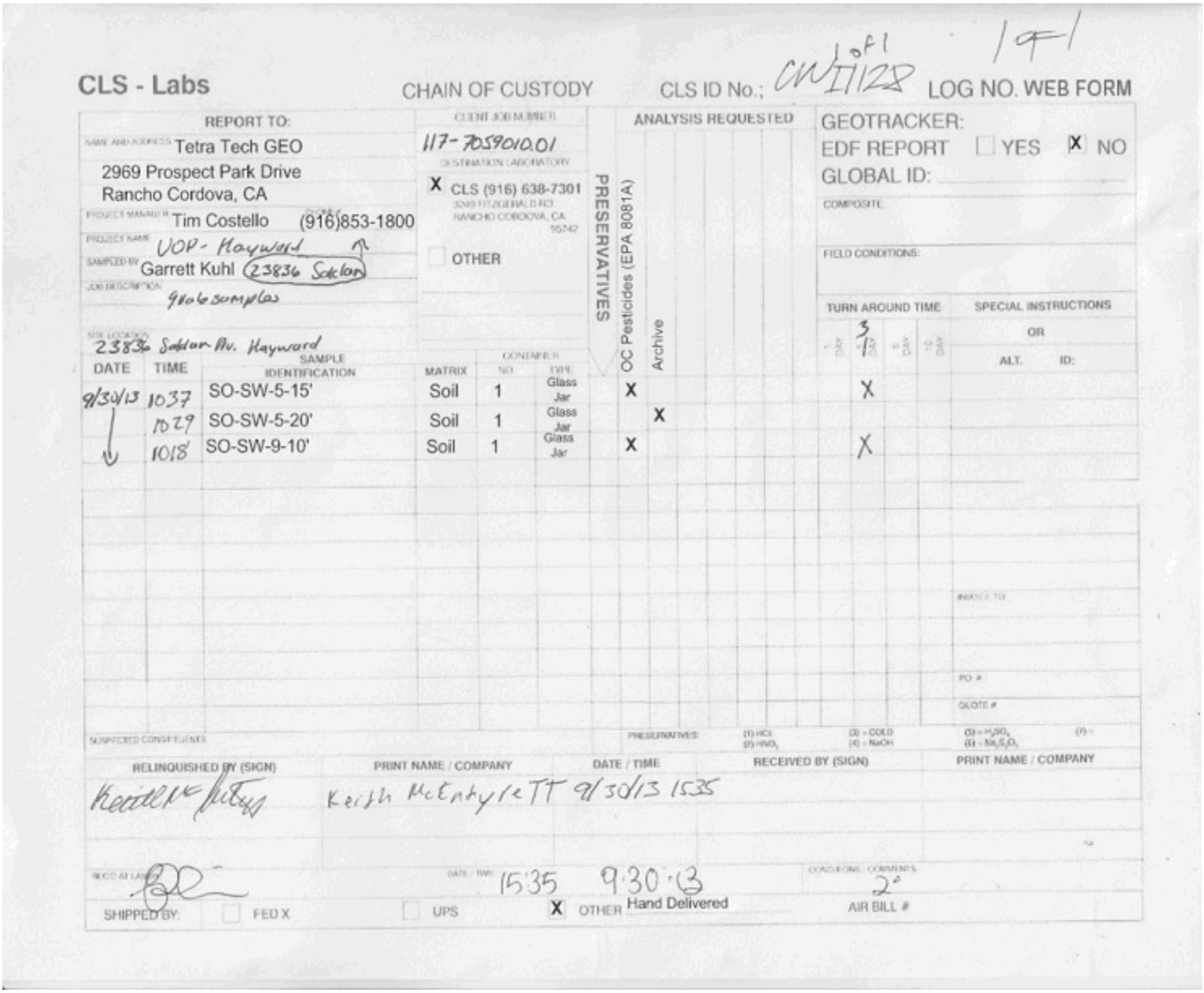


James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

Tetra Tech Geo	Project: VOP - Hayward 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWI1128**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:



CLS - Labs

CHAIN OF CUSTODY

CLS ID No.: CWI1128 1 of 1 1 of 1

LOG NO. WEB FORM

REPORT TO:
Tetra Tech GEO
2969 Prospect Park Drive
Rancho Cordova, CA
Tim Costello (916)853-1800
VOP - Hayward
Garrett Kuhl (23836 Saklan)
9 soil samples
23836 Saklan Av. Hayward

CLIENT JOB NUMBER: 117-7059010.01
DESTINATION LABORATORY:
X CLS (916) 638-7301 3249 FITZGERALD RD. RANCHO CORDOVA, CA 95742
OTHER

ANALYSIS REQUESTED
PRESERVATIVES
OC Pesticides (EPA 8081A)
Archive

GEOTRACKER:
EDF REPORT YES X NO
GLOBAL ID:
COMPOSITE
FIELD CONDITIONS:
TURN AROUND TIME: 1 DAY 2 DAY 5 DAY 10 DAY 3 DAY
SPECIAL INSTRUCTIONS OR ALT. ID:

DATE	TIME	SAMPLE IDENTIFICATION	MATRIX	CONTAINER NO	CONTAINER TYPE	OC Pesticides (EPA 8081A)	Archive	3 DAY
9/30/13	1037	SO-SW-5-15'	Soil	1	Glass Jar	X		X
	1029	SO-SW-5-20'	Soil	1	Glass Jar		X	
	1018	SO-SW-9-10'	Soil	1	Glass Jar	X		X

INVOICE TO:
PO #:
GLOBE #:
SUSPECTED CONSTITUENTS:
PRESERVATIVES: (1) HCl (2) HNO_3 (3) COLD (4) NaOH (5) H_2SO_4 (6) $Na_2S_2O_3$ (7)

RELINQUISHED BY (SIGN)	PRINT NAME / COMPANY	DATE / TIME	RECEIVED BY (SIGN)	PRINT NAME / COMPANY
Keith McIntyre	Keith McIntyre TT	9/30/13 1535		

RECD AT LAB: DATE / TIME: 15:35 9-30-13 CONDITIONS / COMMENTS: 2°
SHIPPED BY: FED X UPS X OTHER Hand Delivered AIR BILL #

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP - Hayward 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1128
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-5-15' (CWI1128-01) Soil Sampled: 09/30/13 10:37 Received: 09/30/13 15:35									
Aldrin	ND	10	µg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	**240**	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	**1200**	600	"	40	"	"	"	"	
4,4´-DDE	**840**	600	"	"	"	"	"	"	
4,4´-DDT	**8000**	7500	"	500	"	"	"	"	
Dieldrin	ND	10	"	10	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*81 %*	*46-139*		*"*	"	*"*	*"*	
Surrogate: Decachlorobiphenyl		*88 %*	*52-141*		*"*	"	*"*	*"*	
SO-SW-9-10' (CWI1128-03) Soil Sampled: 09/30/13 10:18 Received: 09/30/13 15:35									
Aldrin	ND	10	µg/kg	10	CW06517	10/01/13	10/02/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	ND	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP - Hayward 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1128
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-9-10' (CWI1128-03) Soil Sampled: 09/30/13 10:18 Received: 09/30/13 15:35									
4,4´-DDD	ND	150	µg/kg	10	CW06517	"	10/02/13	EPA 8081A	
4,4´-DDE	ND	150	"	"	"	"	"	"	
4,4´-DDT	ND	150	"	"	"	"	"	"	
Dieldrin	ND	10	"	"	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*61 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*126 %*		*52-141*	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP - Hayward 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1128
COC #:

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06517 - LUFT-DHS GCNV										
Blank (CW06517-BLK1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	ND	1.0	µg/kg							
alpha-BHC	ND	2.0	"							
beta-BHC	ND	10	"							
delta-BHC	ND	10	"							
gamma-BHC (Lindane)	ND	10	"							
Chlordane-technical	ND	20	"							
4,4´-DDD	ND	15	"							
4,4´-DDE	ND	15	"							
4,4´-DDT	ND	15	"							
Dieldrin	ND	1.0	"							
Endosulfan I	ND	15	"							
Endosulfan II	ND	15	"							
Endosulfan sulfate	ND	15	"							
Endrin	ND	15	"							
Endrin aldehyde	ND	15	"							
Heptachlor	ND	5.0	"							
Heptachlor epoxide	ND	2.0	"							
Methoxychlor	ND	15	"							
Mirex	ND	10	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	*6.25*		*"*	*8.33*		*75*	*46-139*			
Surrogate: Decachlorobiphenyl	*9.24*		*"*	*8.33*		*111*	*52-141*			
LCS (CW06517-BS1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	13.6	1.0	µg/kg	16.7		82	47-132			
gamma-BHC (Lindane)	13.7	10	"	16.7		82	56-133			
4,4´-DDT	15.1	15	"	16.7		91	46-137			
Dieldrin	15.0	1.0	"	16.7		90	44-143			
Endrin	11.7	15	"	16.7		70	30-147			
Heptachlor	14.0	5.0	"	16.7		84	33-148			
Surrogate: Tetrachloro-meta-xylene	*6.82*		*"*	*8.33*		*82*	*46-139*			

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP - Hayward 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1128
COC #:

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06517 - LUFT-DHS GCNV										
LCS (CW06517-BS1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Surrogate: Decachlorobiphenyl	*9.03*		*µg/kg*	*8.33*		*108*	*52-141*			
LCS Dup (CW06517-BSD1)				Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	13.8	1.0	µg/kg	16.7		83	47-132	2	30	
gamma-BHC (Lindane)	13.8	10	"	16.7		83	56-133	1	30	
4,4´-DDT	16.0	15	"	16.7		96	46-137	6	30	
Dieldrin	15.2	1.0	"	16.7		91	44-143	1	30	
Endrin	11.8	15	"	16.7		71	30-147	1	30	
Heptachlor	14.4	5.0	"	16.7		86	33-148	3	30	
Surrogate: Tetrachloro-meta-xylene	*6.99*		*"*	*8.33*		*84*	*46-139*			
Surrogate: Decachlorobiphenyl	*9.01*		*"*	*8.33*		*108*	*52-141*			
Matrix Spike (CW06517-MS1)		**Source: CWI1105-18**		Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	16.5	10	µg/kg	16.7	ND	99	47-138			
gamma-BHC (Lindane)	17.4	100	"	16.7	ND	104	38-144			
4,4´-DDT	28.1	150	"	16.7	ND	169	41-157			QM-7T
Dieldrin	20.6	10	"	16.7	ND	124	46-155			
Endrin	15.7	150	"	16.7	ND	94	34-149			
Heptachlor	18.9	50	"	16.7	ND	114	36-155			
Surrogate: Tetrachloro-meta-xylene	*19.2*		*"*	*20.8*		*92*	*46-139*			
Surrogate: Decachlorobiphenyl	*23.5*		*"*	*20.8*		*113*	*52-141*			
Matrix Spike Dup (CW06517-MSD1)		**Source: CWI1105-18**		Prepared: 10/01/13 Analyzed: 10/02/13						
Aldrin	16.1	10	µg/kg	16.7	ND	97	47-138	2	35	
gamma-BHC (Lindane)	16.7	100	"	16.7	ND	100	38-144	4	35	
4,4´-DDT	29.8	150	"	16.7	ND	179	41-157	6	35	QM-7T
Dieldrin	20.1	10	"	16.7	ND	121	46-155	3	35	
Endrin	16.1	150	"	16.7	ND	96	34-149	2	35	
Heptachlor	18.6	50	"	16.7	ND	112	36-155	2	35	
Surrogate: Tetrachloro-meta-xylene	*18.4*		*"*	*20.8*		*88*	*46-139*			
Surrogate: Decachlorobiphenyl	*24.7*		*"*	*20.8*		*118*	*52-141*			

Tetra Tech Geo	Project: VOP - Hayward 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWI1128**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #:

Notes and Definitions

QM-7T	The spike recovery was outside acceptance limits for these analytes in both the MS and MSD due to toxaphene/chlordane interference from the source. The batch was accepted based on acceptable LCS/LCSD recovery.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 08, 2013

CLS Work Order #: CWJ0242
COC #: GREEN

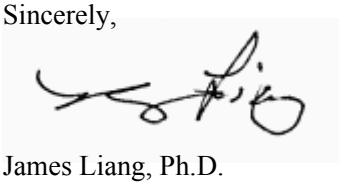
Tim Costello
Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project Name: VOP - Hayward 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 10/04/13 14:23. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

10/08/13 12:51

Tetra Tech Geo	Project: VOP - Hayward 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWJ0242**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #: GREEN

CHANGE OF STATUS CWJ0242

CLS Labs Job # CWJ 1128

Project Name: VOP- Haywards 23836 Saklan

Date Sample(s) Were Received: 9/30/13 **Original Date** 10/3/13

Keith McIntyre (Client Contacted) of Tetra Tech Geo (Company) emailed called

on 10/4/13 (Date) at 1030 (Time).

... and requested the following:

Please run EPA 8011A on:

SO-SW-5-20' (#2)

Turnaround time requested for additional work: 2 day

(Signature) 10/4/13 (Date)

Updated lab job database and file folder by:

Cc:

H:\Will\Orellana\ChangeOfStatus.Doc

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP - Hayward 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWJ0242
COC #: GREEN

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SO-SW-5-20' (CWJ0242-02) Soil Sampled: 09/30/13 10:29 Received: 10/04/13 14:23									
Aldrin	ND	10	µg/kg	10	CW06622	10/04/13	10/08/13	EPA 8081A	
alpha-BHC	ND	20	"	"	"	"	"	"	
beta-BHC	ND	100	"	"	"	"	"	"	
delta-BHC	**230**	100	"	"	"	"	"	"	
gamma-BHC (Lindane)	ND	100	"	"	"	"	"	"	
Chlordane-technical	ND	200	"	"	"	"	"	"	
4,4´-DDD	ND	150	"	"	"	"	"	"	
4,4´-DDE	**1200**	600	"	40	"	"	"	"	
4,4´-DDT	**730**	300	"	20	"	"	"	"	
Dieldrin	ND	10	"	10	"	"	"	"	
Endosulfan I	ND	150	"	"	"	"	"	"	
Endosulfan II	ND	150	"	"	"	"	"	"	
Endosulfan sulfate	ND	150	"	"	"	"	"	"	
Endrin	ND	150	"	"	"	"	"	"	
Endrin aldehyde	ND	150	"	"	"	"	"	"	
Heptachlor	ND	50	"	"	"	"	"	"	
Heptachlor epoxide	ND	20	"	"	"	"	"	"	
Methoxychlor	ND	150	"	"	"	"	"	"	
Mirex	ND	100	"	"	"	"	"	"	
Toxaphene	ND	200	"	"	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*89 %*		*46-139*	"	"	"	"	
Surrogate: Decachlorobiphenyl		*131 %*		*52-141*	"	"	"	"	

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP - Hayward 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWJ0242
COC #: GREEN

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06622 - LUFT-DHS GCNV										
Blank (CW06622-BLK1)				Prepared: 10/04/13 Analyzed: 10/08/13						
Aldrin	ND	1.0	µg/kg							
alpha-BHC	ND	2.0	"							
beta-BHC	ND	10	"							
delta-BHC	ND	10	"							
gamma-BHC (Lindane)	ND	10	"							
Chlordane-technical	ND	20	"							
4,4´-DDD	ND	15	"							
4,4´-DDE	ND	15	"							
4,4´-DDT	ND	15	"							
Dieldrin	ND	1.0	"							
Endosulfan I	ND	15	"							
Endosulfan II	ND	15	"							
Endosulfan sulfate	ND	15	"							
Endrin	ND	15	"							
Endrin aldehyde	ND	15	"							
Heptachlor	ND	5.0	"							
Heptachlor epoxide	ND	2.0	"							
Methoxychlor	ND	15	"							
Mirex	ND	10	"							
Toxaphene	ND	20	"							
Surrogate: Tetrachloro-meta-xylene	*8.59*		*"*	*8.33*		*103*	*46-139*			
Surrogate: Decachlorobiphenyl	*9.40*		*"*	*8.33*		*113*	*52-141*			
LCS (CW06622-BS1)				Prepared: 10/04/13 Analyzed: 10/08/13						
Aldrin	16.3	1.0	µg/kg	16.7		98	47-132			
gamma-BHC (Lindane)	15.1	10	"	16.7		91	56-133			
4,4´-DDT	14.3	15	"	16.7		86	46-137			
Dieldrin	16.3	1.0	"	16.7		98	44-143			
Endrin	11.2	15	"	16.7		67	30-147			
Heptachlor	13.7	5.0	"	16.7		82	33-148			
Surrogate: Tetrachloro-meta-xylene	*9.02*		*"*	*8.33*		*108*	*46-139*			

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: VOP - Hayward 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWJ0242
COC #: GREEN

Organochlorine Pesticides by EPA Method 8081A - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06622 - LUFT-DHS GCNV										
LCS (CW06622-BS1)				Prepared: 10/04/13 Analyzed: 10/08/13						
Surrogate: Decachlorobiphenyl	*9.61*		*µg/kg*	*8.33*		*115*	*52-141*			
LCS Dup (CW06622-BSD1)				Prepared: 10/04/13 Analyzed: 10/08/13						
Aldrin	12.8	1.0	µg/kg	16.7		77	47-132	24	30	
gamma-BHC (Lindane)	12.0	10	"	16.7		72	56-133	23	30	
4,4´-DDT	12.0	15	"	16.7		72	46-137	18	30	
Dieldrin	12.9	1.0	"	16.7		78	44-143	23	30	
Endrin	9.42	15	"	16.7		57	30-147	17	30	
Heptachlor	10.9	5.0	"	16.7		66	33-148	23	30	
Surrogate: Tetrachloro-meta-xylene	*8.51*		*"*	*8.33*		*102*	*46-139*			
Surrogate: Decachlorobiphenyl	*9.17*		*"*	*8.33*		*110*	*52-141*			
Matrix Spike (CW06622-MS1)		**Source: CWJ0210-13**		Prepared: 10/04/13 Analyzed: 10/08/13						
Aldrin	15.0	10	µg/kg	16.7	ND	90	47-138			
gamma-BHC (Lindane)	14.4	100	"	16.7	ND	86	38-144			
4,4´-DDT	18.9	150	"	16.7	ND	114	41-157			
Dieldrin	17.4	10	"	16.7	ND	104	46-155			
Endrin	14.2	150	"	16.7	ND	85	34-149			
Heptachlor	15.6	50	"	16.7	ND	94	36-155			
Surrogate: Tetrachloro-meta-xylene	*15.3*		*"*	*20.8*		*74*	*46-139*			
Surrogate: Decachlorobiphenyl	*19.1*		*"*	*20.8*		*92*	*52-141*			
Matrix Spike Dup (CW06622-MSD1)		**Source: CWJ0210-13**		Prepared: 10/04/13 Analyzed: 10/08/13						
Aldrin	14.5	10	µg/kg	16.7	ND	87	47-138	4	35	
gamma-BHC (Lindane)	13.7	100	"	16.7	ND	82	38-144	5	35	
4,4´-DDT	17.6	150	"	16.7	ND	106	41-157	7	35	
Dieldrin	16.5	10	"	16.7	ND	99	46-155	5	35	
Endrin	13.4	150	"	16.7	ND	81	34-149	6	35	
Heptachlor	14.7	50	"	16.7	ND	88	36-155	6	35	
Surrogate: Tetrachloro-meta-xylene	*14.5*		*"*	*20.8*		*70*	*46-139*			
Surrogate: Decachlorobiphenyl	*18.8*		*"*	*20.8*		*90*	*52-141*			

Tetra Tech Geo	Project: VOP - Hayward 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWJ0242**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #: GREEN

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

October 02, 2013

CLS Work Order #: CWI1061
COC #: GREEN

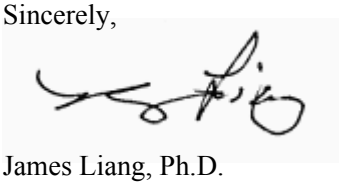
Tim Costello
Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project Name: 23836 Saklan

Enclosed are the results of analyses for samples received by the laboratory on 09/27/13 09:00. Samples were analyzed pursuant to client request utilizing EPA or other ELAP approved methodologies. I certify that the results are in compliance both technically and for completeness.

Analytical results are attached to this letter. Please call if we can provide additional assistance.

Sincerely,



James Liang, Ph.D.
Laboratory Director

CA DOHS ELAP Accreditation/Registration number 1233

CALIFORNIA LABORATORY SERVICES

10/02/13 10:12

Tetra Tech Geo	Project: 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWI1061**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #: GREEN

CWI1061

CHANGE OF STATUS

CLS Labs Job # CWH1094 — "All Jobs"

Project Name: 23836 SAKLAN

Date Sample(s) Were Received: 9/27/13 Original Date 9/3/13

KEITH McINTYRE (Client Contacted) of TETRA TECH (Company) called

on 9/27/13 (Date) at 0900 hrs (Time).

... and requested the following:

Run STLC Chromium on Samples:

-24 (Pile 2)
-25 (Pile 3-1)
-26 (Pile 3-2)

Turnaround time requested for additional work: 3 DAY

(Signature) 9/27/13 (Date)

Updated lab job database and file folder by:

Cc:

H:\Will\Orellana\ChangeOfStatus.Doc

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1061
COC #: GREEN

STLC (WET) Metals by 6000/7000 Series Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Pile 2 (CWI1061-24) Soil Sampled: 08/28/13 07:53 Received: 09/27/13 09:00									
Chromium	**0.87**	0.50	mg/L	10	CW06475	09/30/13	09/30/13	EPA 6010B	A-COM
Pile 3-1 (CWI1061-25) Soil Sampled: 08/28/13 08:18 Received: 09/27/13 09:00									
Chromium	**0.65**	0.50	mg/L	10	CW06475	09/30/13	09/30/13	EPA 6010B	A-COM
Pile 3-2 (CWI1061-26) Soil Sampled: 08/28/13 08:21 Received: 09/27/13 09:00									
Chromium	**2.5**	0.50	mg/L	10	CW06475	09/30/13	09/30/13	EPA 6010B	A-COM

Tetra Tech Geo
2969 Prospect Park Drive, Suite 100
Rancho Cordova, CA 95670

Project: 23836 Saklan
Project Number: 117-7059010.01
Project Manager: Tim Costello

CLS Work Order #: CWI1061
COC #: GREEN

STLC (WET) Metals by 6000/7000 Series Methods - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CW06475 - EPA 3010A										
Blank (CW06475-BLK1)				Prepared & Analyzed: 09/30/13						
Chromium	ND	0.050	mg/L							
LCS (CW06475-BS1)				Prepared & Analyzed: 09/30/13						
Chromium	5.30	0.50	mg/L	5.00		106	80-120			
Matrix Spike (CW06475-MS1)	**Source: CWI1061-24**			Prepared & Analyzed: 09/30/13						
Chromium	6.00	0.50	mg/L	5.00	0.865	103	75-125			
Matrix Spike Dup (CW06475-MSD1)	**Source: CWI1061-24**			Prepared & Analyzed: 09/30/13						
Chromium	6.20	0.50	mg/L	5.00	0.865	107	75-125	3	30	

CALIFORNIA LABORATORY SERVICES

10/02/13 10:12

Tetra Tech Geo	Project: 23836 Saklan	
2969 Prospect Park Drive, Suite 100	Project Number: 117-7059010.01	**CLS Work Order #: CWI1061**
Rancho Cordova, CA 95670	Project Manager: Tim Costello	COC #: GREEN

Notes and Definitions

A-COM	Run by ICP-MS (EPA6020)
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit (or method detection limit when specified)
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

ATTACHMENT D

Hazardous Waste Manifests and Landfill Weight Report

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Manifest Tracking Number
CAC002743078	1	800-838-1477	011241007 JJK

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA

Generator's Site Address (if different than mailing address)
23936 SAKLAN ROAD
HAYWARD, CA 94545 USA

Generator's Phone: 415-197-0724

6. Transporter 1 Company Name
DENBESTE TRANSPORTATION INC

U.S. EPA ID Number
CAD982813632

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
CLEAN HARBORS ENVIRONMENTAL
2000 WEST LOKERN RD
BUTTONWILLOW, CA 93206 USA

U.S. EPA ID Number
CAD980876276

Facility's Phone: 661-762-6200

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NONE,NON RCRA HAZARDOUS WASTE,SOLIDS (DDD,DDE,DDT),NA	1	DT	16	Y	811
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: CH0000208 SALES ORDER NUMBER:
DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: FERNANDO RAMIREZ
Signature:
Month: 10 Day: 21 Year: 13

INT'L

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

TRANSPORTER

17. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Chester Eagle
Signature:
Month: 10 Day: 22 Year: 13

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

18. Discrepancy

18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month: Day: Year:

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a

Printed/Typed Name: Richard Andrews
Signature:
Month: 10 Day: 22 Year: 13

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

TRANSPORTER'S COPY

Please print or type. (Form designed for use on elite (12-pitch) typewriter.)

Form Approved. OMB No. 2050-0039

UNIFORM HAZARDOUS WASTE MANIFEST

1. Generator ID Number: CAC002743078
2. Page 1 of: 1
3. Emergency Response Phone: 800-838-1477
4. Manifest Tracking Number: **011241005 JJK**

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA

Generator's Site Address (if different than mailing address)
23836 SAKLAN ROAD
HAYWARD, CA 94545 USA

Generator's Phone: 415-197-0724

6. Transporter 1 Company Name: ~~DENBESTE TRANSPORTATION INC~~ INC Trucking
U.S. EPA ID Number: ~~CAD982513632~~ CA 000148809

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
CLEAN HARBORS ENVIRONMENTAL
2500 WEST LOKERN RD
BUTTONWILLOW, CA 93206 USA
U.S. EPA ID Number: CAD980675276

Facility's Phone: 661-762-6200

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes
	1. NONE,NON RCRA HAZARDOUS WASTE,SOLIDS,(DDD,DDE,DDT),N/A	1	DT	18	Y	611
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: CH680120B SALES ORDER NUMBER: 68/182 J8278852 DENBESTE JOB NUMBER: DB13472 #2
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL

15. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: FERNANDO RAMIREZ
Signature: F Ramirez
Month 10 Day 21 Year 13

16. International Shipments ☐ Import to U.S. ☐ Export from U.S.
Transporter signature (for exports only):
Port of entry/exit:
Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: ANTONIO GODINEZ
Signature: A. Godinez
Month 10 Day 22 Year 13

Transporter 2 Printed/Typed Name
Signature
Month Day Year

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

18b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator)
Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H132			

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name: Mike Johns
Signature: Mike Johns
Month 10 Day 22 Year 13

genrtr_sgntr_dt	mnfst_no	drum_wgt	drum_wgt_uom
10/21/2013	011241005JJK	50,360.00	LBS
10/21/2013	011241007JJK	48,520.00	LBS
		49.44	TONS

ATTACHMENT E

Non-hazardous Waste Manifests and Landfill Weight Report

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAC002743078	1	800-838-1477	

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23636 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name
DENBESTE TRANSPORTATION INC

U.S. EPA ID Number
CAL000177733
CAD982513632

7. Transporter 2 Company Name

U.S. EPA ID Number

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
6426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718

U.S. EPA ID Number
CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZARDOUS SOILS	1	DT	18	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5907 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL
3/81 #1

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: FERNANDO RAMIREZ
Signature: F. Ramirez
Month: 10 Day: 21 Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: HORACIO LOPEZ
Signature:
Month: 10 Day: 22 Year: 13

Transporter 2 Printed/Typed Name
Signature
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☒ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name
Signature
Month: 10 Day: 22 Year: 13

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TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CAC002743078	1	800-838-1477	

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23836 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name
~~DENBESTE TRANSPORTATION INC~~ ROAD RUNNER TRUCK LINE
U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
6426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718
U.S. EPA ID Number: CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZARDOUS SOILS	1	DT	18	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5907 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL
555/T-777 #2

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X FERNANDO RAMIREZ
Signature: F. Ramirez
Month 10 Day 21 Year 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: HARD P. Gosal
Signature:
Month 10 Day 22 Year 13

Transporter 2 Printed/Typed Name:
Signature:
Month Day Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month 10 Day 22 Year 13

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TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CAC002743078	1	800-838-1477	

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23636 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name: DENBESTE TRANSPORTATION INC — U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
6426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718

U.S. EPA ID Number: CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZARDOUS SOILS	1	DT	18	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5907 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL
297/397 #3

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X FERNANDO RAMIREZ — Signature: F. Ramirez — Month: 10 Day: 21 Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: BRIAN WILSON — Signature — Month: 10 Day: 22 Year: 13

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Tom Wilson — Signature — Month: 10 Day: 24 Year: 13

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAC002743078	1	800-838-1477	

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23836 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name: ~~DENBESTE TRANSPORTATION INC~~ MILLAR TRUCKING — U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name — U.S. EPA ID Number

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
6426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718

U.S. EPA ID Number: CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZARDOUS SOILS	1	DT	19	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5907 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL

408/102 #4

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: X FERNANDO RAMIREZ — Signature: F. Ramirez — Month: 10 Day: 21 Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: CESAR MILLAR — Signature — Month: 10 Day: 22 Year: 13

Transporter 2 Printed/Typed Name — Signature — Month — Day — Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month — Day — Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name — Signature — Month: 10 Day: 22 Year: 13

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TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAC002743078	1	800-838-1477	

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23836 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name: DENBESTE TRANSPORTATION INC — U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name: SABER Trucking — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
RECOLOGY HAY RD,
6426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718

U.S. EPA ID Number: CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZARDOUS SOILS	1	DT	18	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5607 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL
ST15/068 #5

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: FERNANDO RAMIREZ — Signature: F. Ramirez — Month: 10 Day: 21 Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: Jeff Green — Signature: — Month: 10 Day: 22 Year: 13

Transporter 2 Printed/Typed Name: — Signature: — Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
*39-63
Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: — Signature: — Month: 10 Day: 22 Year: 13

169-BLC-O 6 10498 (Rev. 9/09)

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
	CAC002743078	1	800-838-1477	

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23836 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name
DENBESTE TRANSPORTATION INC — Sabix Trucking
U.S. EPA ID Number: CAD982513832

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
6426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718
U.S. EPA ID Number: CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
	1. NON HAZARDOUS SOILS	1	DT	10	Y
	2.				
	3.				
	4.				

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5907 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL
LDS #19 Was Cleanup ST99/ST15 9E29461 #6

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: FERNANDO RAMIREZ 23 Ton Signature: [signature] Month 10 Day 21 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mike Ellingson Signature: [signature] Month 10 Day 22 Year 13
Transporter 2 Printed/Typed Name: 2360 Signature: Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
46.84 TONS 46.84
Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Ken Wilk Signature: [signature] Month 10 Day 22 Year 13

169-BLC-O 6 10498 (Rev. 9/09) TRANSPORTER #1

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAC002743078	1	800-838-1477	

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23836 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name: DENBESTE TRANSPORTATION INC — U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name: Sabie Trucking TRFI's 9154774199 — U.S. EPA ID Number:

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
8426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718
U.S. EPA ID Number: CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1.	NON HAZARDOUS SOILS	1	DT	18	Y
2.					
3.					
4.					

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5807 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL
5/100 #7

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: FERNANDO RAMIREZ — Signature: F. Ramirez — Month: 10 Day: 21 Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: AMRIK SINGH — Signature: — Month: 10 Day: 22 Year: 13

Transporter 2 Printed/Typed Name: — Signature: — Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) — U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) — Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Jan Wilson — Signature: — Month: 10 Day: 22 Year: 13

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAC002743078	1	800-838-1477	

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23836 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name
~~DENBESTE TRANSPORTATION INC~~ Sabie Trk
U.S. EPA ID Number
CAD982513832

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
6426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718
U.S. EPA ID Number
CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZARDOUS SOILS	1	DT	18	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5907 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL
LIC #9A27528
9421/151 #8

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name	Signature	Month	Day	Year
FERNANDO RAMIREZ	F. Ramirez	10	21	13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name	Signature	Month	Day	Year
Harinder Pal Singh		10	22	13
Transporter 2 Printed/Typed Name	Signature	Month	Day	Year

DESIGNATED FACILITY

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:
17b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:
17c. Signature of Alternate Facility (or Generator) Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name	Signature	Month	Day	Year
		10	22	13

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TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAC002743078	1	800-838-1477	

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23836 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name
~~DENBESTE TRANSPORTATION INC~~ ROAD RUNNER
U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name
U.S. EPA ID Number:

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
6426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718
U.S. EPA ID Number: CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZARDOUS SOILS	1	DT	18	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5907 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL
#555 7777 #9

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: FERNANDO RAMIREZ
Signature: F. Ramirez
Month: 10 Day: 21 Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: HARDZEr Gosal
Signature:
Month: 10 Day: 22 Year: 13

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number:
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name:
Signature:
Month: 10 Day: 22 Year: 13

UP 91593

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAC002743078	1	800-838-1477	

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23836 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name: DENBESTE TRANSPORTATION INC
U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
6426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718
U.S. EPA ID Number: CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZARDOUS SOILS	1	DT	18	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5907 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL
297/397 #10

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: FERNANDO RAMIREZ | Signature: F. Ramirez | Month: 10 | Day: 21 | Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: BRIAN Medina | Signature | Month: 10 | Day: 22 | Year: 13

Transporter 2 Printed/Typed Name | Signature | Month | Day | Year

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator) | Month | Day | Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name | Signature | Month: 10 | Day: 22 | Year: 13

169-BLC-O 6 10498 (Rev. 9/09)

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAC002743078	1	800-838-1477	

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23836 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name
DENBESTE TRANSPORTATION INC
U.S. EPA ID Number
CAD982513632

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
6426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718
U.S. EPA ID Number
CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZARDOUS SOILS	1	DT	18	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5907 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL
0'99 #11

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: FERNANDO RAMIREZ Signature: F. Ramirez Month: 10 Day: 21 Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: [illegible] Signature: [illegible] Month: 10 Day: 22 Year: 13

Transporter 2 Printed/Typed Name: Signature: Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection

Manifest Reference Number:

17b. Alternate Facility (or Generator) U.S. EPA ID Number

Facility's Phone:

17c. Signature of Alternate Facility (or Generator) Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Signature: Month: 10 Day: 22 Year: 13

169-BLC-O 6 10498 (Rev. 9/09)

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAC002743078	1	800-838-1477	

GENERATOR

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA
Generator's Phone: 415-197-0724

Generator's Site Address (if different than mailing address)
23836 SAKLAN ROAD
HAYWARD, CA 94545 USA

6. Transporter 1 Company Name
DENBESTE TRANSPORTATION INC
U.S. EPA ID Number
CAD982513832

7. Transporter 2 Company Name
SABIE TRUCKING
U.S. EPA ID Number

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
6426 HAY RD
VACAVILLE, CA 95687 USA
Facility's Phone: 707-678-4718
U.S. EPA ID Number
CAD982042475

	9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.	
1.	NON HAZARDOUS SOILS	1	DT	18	Y	
2.						
3.						
4.						

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5907 DENBESTE JOB NUMBER: DB13472
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL
#12
ST15

14. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: FERNANDO RAMIREZ
Signature: F.Ramirez
Month: 10 Day: 21 Year: 13

INT'L

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

TRANSPORTER

16. Transporter Acknowledgment of Receipt of Materials

Transporter 1 Printed/Typed Name: JEFF GREEN
Signature: Jeff Green
Month: 10 Day: 21 Year: 13

Transporter 2 Printed/Typed Name:
Signature:
Month: Day: Year:

DESIGNATED FACILITY

17. Discrepancy

17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☒ Residue ☐ Partial Rejection ☐ Full Rejection
*39-65
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month: Day: Year:

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a

Printed/Typed Name: Tom Wilson
Signature:
Month: 10 Day: 23 Year: 13

169-BLC-O 6 10498 (Rev. 9/09)

TRANSPORTER #1

NON-HAZARDOUS WASTE MANIFEST

1. Generator ID Number	2. Page 1 of	3. Emergency Response Phone	4. Waste Tracking Number
CAC002743078	1	800-838-1477	

5. Generator's Name and Mailing Address
FERNANDO RAMIREZ
1210 GILMAN STREET
SAN FRANCISCO, CA 94124 USA

Generator's Site Address (if different than mailing address)
23838 SAKLAN ROAD
HAYWARD, CA 94545 USA

Generator's Phone: 415-197-0724

6. Transporter 1 Company Name: DENBESTE TRANSPORTATION INC Sabin truck
U.S. EPA ID Number: CAD982513632

7. Transporter 2 Company Name
U.S. EPA ID Number

8. Designated Facility Name and Site Address
RECOLOGY HAY RD
6426 HAY RD
VACAVILLE, CA 95687 USA
U.S. EPA ID Number: CAD982042475

Facility's Phone: 707-678-4718

9. Waste Shipping Name and Description	10. Containers No.	10. Containers Type	11. Total Quantity	12. Unit Wt./Vol.
1. NON HAZARDOUS SOILS	1	DT	18	Y
2.				
3.				
4.				

13. Special Handling Instructions and Additional Information
WASTE PROFILE NUMBER: 5807 DENBESTE JOB NUMBER: DB13472 9E79641
WEAR ALL APPROPRIATE PPE WHEN HANDLING MATERIAL #13
LDS #12 [illegible] ST99-ST15

14. **GENERATOR'S/OFFEROR'S CERTIFICATION:** I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Generator's/Offeror's Printed/Typed Name: FERNANDO RAMIREZ 3 Ton
Signature: F Ramirez
Month 10 Day 21 Year 13

15. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter Signature (for exports only): Date leaving U.S.:

16. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Mike Ellingson 2300
Signature: [signature]
Month 10 Day 22 Year 13

Transporter 2 Printed/Typed Name
Signature
Month Day Year

17. Discrepancy
17a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
4684 TNS
4684
Manifest Reference Number:

17b. Alternate Facility (or Generator)
U.S. EPA ID Number
Facility's Phone:

17c. Signature of Alternate Facility (or Generator)
Month Day Year

18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest except as noted in Item 17a
Printed/Typed Name: Jon Wilson
Signature: [signature]
Month 10 Day 23 Year 13

169-BLC-O 6 10498 (Rev. 9/09) TRANSPORTER #1

Posted Weight Tags by Job Number

Date Range 2013/09/01,2013/10/31

DATE	ACCT #	ACCOUNT NAME	COMM	JOB #	Tons	WT #	TRUCK #	CITY OF ORIGIN
20131022	52043	DENBESTE TRANSPORTATION	SOILC	5907	22.83	1258823	7747	HAYWARD
20131022			SOILC		23.44	1258831	4858	HAYWARD
20131022			SOILC		22.89	1258832	5118	HAYWARD
20131022			SOILC		22.53	1258837	297	HAYWARD
20131022			SOILC		23.84	1258852	5673	HAYWARD
20131022			SOILC		19.36	1258856	8118	HAYWARD
20131022			SOILC		21.36	1258874	7846	HAYWARD
20131022			SOILC		21.11	1258956	5765	HAYWARD
20131022			SOILC		24.51	1258963	5118	HAYWARD
20131022			SOILC		21.23	1258978	8019	HAYWARD
			SOILC		21.74	1258989	VP9159	HAYWARD
			Total Tons		244.84			

DATE	ACCT #	ACCOUNT NAME	COMM	JOB #	Tons	WT #	TRUCK #	CITY OF ORIGIN
20131023	52043	DENBESTE TRANSPORTATION	SOILC	5907	14.86	1259029	5673	HAYWARD
20131023			SOILC		20.27	1259031	8118	HAYWARD
			Total Tons		35.13			

Grand Total Tons **279.97**

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718
Truck: 5110
Customer: 52043/DENBESTE TRANSPORT

Profile: 5907/Fernando Ramirez, 23836

Ticket: 1258832
Date: 10/22/2013
Time: 11:06:15 - 11:33:19

Gross: 76180 LBS Scale
Tare: 30480 LBS - Manual
Net: 45700 LBS
Scale: M2

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC/Soil Contaminated	22.89 Tons

Joseph Snyder

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707) 678-4718
Truck: 7747
Customer: 52043/DENBESTE TRANSPORT

Profile: 5907/Fernando Ramirez, 23836

Ticket: 1258823

Date: 10/22/2013
Time: 11:23:33 - 11:23:46

Gross: 77520 LBS Scale
Tare: 31860 LBS Prefare
Net: 45660 LBS
Scale: 111

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC/Soil Contaminated	22.83 Tons

WASTE ZERO

Terri Wilson

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707) 678-4718
Truck: 297
Customer: 52043/DENBESTE TRANSPORT

Profile: 5907/Fernando Ramirez, 23836

Ticket 1258837
Date: 10/22/2013
Time: 11:25:44 - 11:38:03

Gross: 79180 LBS Scale
Tare: 34120 LBS Scale
Net: 45060 LBS
Scale: H2

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC/Soil Contaminated.	22.53 Tons

WASTE ZERO

Joseph Snyder

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710
Truck: 4959
Customer: 52043/DEMBESTE TRANSPORT

Profile: 5907/Fernando Ramirez, 23836

Ticket: 1258831
Date: 10/22/2013
Time: 11:31:42 - 11:32:02

Gross: 76980 LBS Scale
Tare: 30180 LBS Prefere
Net: 46800 LBS
Scale: Hi

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC4Soil Contaminated	23.44 Tons

Torri Wilson

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707) 678-4718
Truck: 5673
Customer: 52843/DENBESTE TRANSPORT

Profile: 5907/Fernando Ramirez, 23836

Ticket: 1258852
Date: 10/22/2013
Time: 12:08:13 (2:08:25

Gross: 78720 LBS Scale
Tare: 31040 LBS PreTare
Net: 47680 LBS
Scale: H1

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC/Soil Contaminated	23.84 Tons

WASTE ZERO

Terri Wilson

Ticket: 1258856
Date: 10/22/2013
Time: 12:11:05 - 12:11:25

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718
Truck: 8118
Customer: 52043/DENRESTE TRANSPORT License: 9D83396

Gross: 69780 LBS Scale
Tare: 31060 LBS PreTare
Net: 38720 LBS
Scale: H1

Profile: 5907/Fernando Ramirez, 23836

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC/Soil Contaminated	19.36 Tons

Terri Wilson

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RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718
Truck: 7846
Customer: 52043/DENBESTE TRANSPORT License: 9027520

Profile: 5907/Fernando Ramirez, 23836

Ticket: 1258874
Date: 10/22/2013
Time: 12:32:45 - 12:33:08

Gross: 73820 LBS Scale
Tare: 31100 LBS ProTare
Net: 42720 LBS
Scale: 01

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC/Soil Contaminated	21.36 Tons

WASTE ZERO

Terri Wilson

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718
Truck: 5765
Customer: 52043/DEHBESTE TRANSPORT

Profile: 5987/Fernando Ramirez, 23836

Comment: 5987

Ticket: 1258956
Date: 10/22/2013
Time: 12:36:58 - 15:01:55

Gross: 72980 LBS Scale
Tare: 30760 LBS Scale
Net: 42220 LBS
Scale: HC

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC/Soil Contaminated	21.11 Tons

WASTE ZERO

Joseph Snyder

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718
Truck: VP91593
Customer: 52043/DENBESTE TRANSPORT

Profile: 5907/Fernando Ramirez, 23836

Ticket: 1258989
Date: 10/22/2013
Time: 15:50:55 16:03:26

Gross: 77460 LBS Scale
Tare: 33980 LBS Scale
Net: 43480 LBS
Scale: H2

Origin	Materials & Services	Quantity
HAY/Hayward	SOIL0/Soil Contaminated:	21.74 Tons

WASTE ZERO

Joseph Snyder

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718
Truck: 5118
Customer: 52043/BENDERSTE TRANSPORT

Profile: 5907/Fernando Ramirez, 23836

Ticket: 1258963
Date: 10/22/2013
Time: 15:07:42 - 15:07:53

Gross: 79470 LBS Scale
Tare: 30400 LBS PreTare
Net: 49020 LBS
Scale: H1

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC/Soil Contaminated	24.51 Tons

Joseph Snyder

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710
Truck: 8819
Customer: 52043/DENBESTE TRANSPORT License: 9A6103

Profile: 5907/Fernando Ramirez, 25836

Ticket: 1258978
Date: 10/22/2013
Time: 15:48:55 - 15:49:09

Gross: 73840 LBS Scale
Tare: 31380 LBS PreTare
Net: 42460 LBS
Scale: H1

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC/Soil Contaminated	21.23 Tons

Safe-Pk

EDEN DR

Joseph Snyder

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4710
Truck: 5673
Customer: 52043/BENBESTE TRANSPORT

Profile: 5907/Fernando Ramirez, 23836

Ticket: 1259029
Date: 10/23/2013
Time: 07:02:50 - 07:03:00

Gross: 60760 LBS Scale
Tare: 31040 LBS PreTare
Net: 29720 LBS
Scale: H1

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC/Soil Contaminated	14.86 Tons

Terri Wilson

RECOLOGY HAY ROAD
RECOLOGY HAY ROAD
6426 Hay Road Vacaville, CA 95687
Phone: (707)-678-4718
Truck: 8118
Customer: 52043/DENBESTE TRANSPORT License: 9D83396

Ticket: 1259031
Date: 10/23/2013
Time: 07:04:14 - 07:04:29

Gross: 71600 LBS Scale
Tare: 31060 LBS PreTare
Net: 40540 LBS
Scale: 01

Profile: 5907/Fernando Ramirez, 230.36

Schedule SLB

Origin	Materials & Services	Quantity
HAY/Hayward	SOILC/Soil Contaminated	20.27 Tons

Terri Wilson

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ATTACHMENT F

Perimeter Air Monitoring Analytical Data Sheets and Chain of Custody Form

Mr. Tim Costello
Tetra Tech GEO
2969 Prospect Park Drive
#100
Rancho Cordova, CA 95670

September 19, 2013

Account# 24404

Login# L298706

Dear Mr. Costello:

Enclosed are the analytical results for the samples received by our laboratory on August 29, 2013. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

The samples submitted for Organochlorine Pesticides and PCBs were subcontracted to Bureau Veritas/Clayton Group Services, Inc. Their report is enclosed in its entirety.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Heidi Fruhlinger at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

Mary G Unangst

Mary G. Unangst
Laboratory Director

Enclosure(s)

September 19, 2013

Shelly Krause
GALSON LABORATORIES
6601 Kirkville Road
East Syracuse, NY 13057-

Bureau Veritas Work Order No. 13081709

Reference: L298706

Dear Shelly Krause:

Bureau Veritas North America, Inc. received 3 samples on August 30, 2013 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Wendy Lesniak

Client Services Representative
Electronic signature authorized through password protection

CASE NARRATIVE

Date: *19-Sep-13*

CLIENT:	GALSON LABORATORIES
Project:	L298706
Work Order No	13081709

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

See attached for statistical information.

Analytical Comments for Method TO-10_S, sample -002A: Please note that the surrogate standard recoveries recovered below statistical limits. The results for sample 002A may be biased low.

ANALYTICAL RESULTS

Date: *19-Sep-13*

Client: GALSON LABORATORIES

Project: L298706 **Work Order No:** 13081709

Sample Identification: PERIMETER W

Lab Number: 001A **Date Sampled:** 8/28/2013

Sample Type: PUF Tube **Date Received:** 8/30/2013

Analyst: CPF **Air Volume (L):** 622

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
4,4´-DDD	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
4,4´-DDE	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
4,4´-DDT	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Aldrin	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
alpha-BHC	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
alpha-Chlordane	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Aroclor 1016	<0.5	<0.00080	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1221	<0.5	<0.00080	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1232	<0.5	<0.00080	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1242	<0.5	<0.00080	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1248	<0.5	<0.00080	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1254	<0.5	<0.00080	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1260	<0.5	<0.00080	--	0.5	EPA TO-10A modified	09/09/2013
beta-BHC	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Chlordane	<0.25	<0.00040	--	0.25	EPA TO-10A modified	09/09/2013
Chlordane, Technical	<0.25	<0.00040	--	0.25	EPA TO-10A modified	09/09/2013
delta-BHC	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Dieldrin	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Endosulfan I	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Endosulfan II	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Endosulfan sulfate	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Endrin	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Endrin aldehyde	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Endrin ketone	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
gamma-BHC	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
gamma-Chlordane	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Heptachlor	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Heptachlor epoxide	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013
Methoxychlor	<0.05	<0.000080	--	0.05	EPA TO-10A modified	09/09/2013

ANALYTICAL RESULTS

Date: *19-Sep-13*

Client: GALSON LABORATORIES

Project: L298706 **Work Order No:** 13081709

Sample Identification: PERIMETER W

Lab Number: 001A **Date Sampled:** 8/28/2013

Sample Type: PUF Tube **Date Received:** 8/30/2013

Analyst: CPF **Air Volume (L):** 622

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
Toxaphene	<1	<0.0016	--	1	EPA TO-10A modified	09/09/2013

ANALYTICAL RESULTS

Date: *19-Sep-13*

Client: GALSON LABORATORIES

Project: L298706 **Work Order No:** 13081709

Sample Identification: PERIMETER E

Lab Number: 002A **Date Sampled:** 8/28/2013

Sample Type: PUF Tube **Date Received:** 8/30/2013

Analyst: CPF **Air Volume (L):** 488

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
4,4´-DDD	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
4,4´-DDE	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
4,4´-DDT	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Aldrin	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
alpha-BHC	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
alpha-Chlordane	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Aroclor 1016	<0.5	<0.0010	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1221	<0.5	<0.0010	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1232	<0.5	<0.0010	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1242	<0.5	<0.0010	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1248	<0.5	<0.0010	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1254	<0.5	<0.0010	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1260	<0.5	<0.0010	--	0.5	EPA TO-10A modified	09/09/2013
beta-BHC	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Chlordane	<0.25	<0.00051	--	0.25	EPA TO-10A modified	09/09/2013
Chlordane, Technical	<0.25	<0.00051	--	0.25	EPA TO-10A modified	09/09/2013
delta-BHC	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Dieldrin	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Endosulfan I	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Endosulfan II	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Endosulfan sulfate	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Endrin	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Endrin aldehyde	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Endrin ketone	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
gamma-BHC	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
gamma-Chlordane	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Heptachlor	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Heptachlor epoxide	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013
Methoxychlor	<0.05	<0.00010	--	0.05	EPA TO-10A modified	09/09/2013

ANALYTICAL RESULTS

Date: *19-Sep-13*

Client: GALSON LABORATORIES

Project: L298706 **Work Order No:** 13081709

Sample Identification: PERIMETER E

Lab Number: 002A **Date Sampled:** 8/28/2013

Sample Type: PUF Tube **Date Received:** 8/30/2013

Analyst: CPF **Air Volume (L):** 488

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
Toxaphene	<1	<0.0020	--	1	EPA TO-10A modified	09/09/2013

ANALYTICAL RESULTS

Date: *19-Sep-13*

Client: GALSON LABORATORIES

Project: L298706 **Work Order No:** 13081709

Sample Identification: PERIMETER NE

Lab Number: 003A **Date Sampled:** 8/28/2013

Sample Type: PUF Tube **Date Received:** 8/30/2013

Analyst: CPF **Air Volume (L):** 727

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
4,4´-DDD	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
4,4´-DDE	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
4,4´-DDT	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Aldrin	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
alpha-BHC	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
alpha-Chlordane	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Aroclor 1016	<0.5	<0.00069	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1221	<0.5	<0.00069	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1232	<0.5	<0.00069	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1242	<0.5	<0.00069	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1248	<0.5	<0.00069	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1254	<0.5	<0.00069	--	0.5	EPA TO-10A modified	09/09/2013
Aroclor 1260	<0.5	<0.00069	--	0.5	EPA TO-10A modified	09/09/2013
beta-BHC	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Chlordane	<0.25	<0.00034	--	0.25	EPA TO-10A modified	09/09/2013
Chlordane, Technical	<0.25	<0.00034	--	0.25	EPA TO-10A modified	09/09/2013
delta-BHC	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Dieldrin	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Endosulfan I	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Endosulfan II	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Endosulfan sulfate	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Endrin	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Endrin aldehyde	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Endrin ketone	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
gamma-BHC	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
gamma-Chlordane	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Heptachlor	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Heptachlor epoxide	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013
Methoxychlor	<0.05	<0.000069	--	0.05	EPA TO-10A modified	09/09/2013

ANALYTICAL RESULTS

Date: *19-Sep-13*

Client: GALSON LABORATORIES

Project: L298706 **Work Order No:** 13081709

Sample Identification: PERIMETER NE

Lab Number: 003A **Date Sampled:** 8/28/2013

Sample Type: PUF Tube **Date Received:** 8/30/2013

Analyst: CPF **Air Volume (L):** 727

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
Toxaphene	<1	<0.0014	--	1	EPA TO-10A modified	09/09/2013

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

Statistical Data for Pesticides/PCBs by EPA TO-10A
Bureau Veritas work order 13081709

4,4-DDD
Number of samples =109
Recovery % =101.05
Relative Standard Deviation % =11.20

4,4-DDE
Number of samples =110
Recovery % =98.60
Relative Standard Deviation % =7.91

4,4-DDT
Number of samples =110
Recovery % =93.80
Relative Standard Deviation % =8.96

Aldrin
Number of samples =110
Recovery % =89.3
Relative Standard Deviation % =13.33

Alpha-BHC
Number of samples =110
Recovery % =87.10
Relative Standard Deviation % =9.91

Alpha-chlordane
Number of samples =110
Recovery % =95.30
Relative Standard Deviation % =6.89

Beta-BHC
Number of samples =110
Recovery % =95.8
Relative Standard Deviation % =6.33

delta-BHC
Number of samples =110
Recovery % =90.10
Relative Standard Deviation % =8.10

Dieldrin
Number of samples =110
Recovery % =93.35
Rclative Standard Deviation % =8.09

Endosulfan I
Number of samples =110
Recovery % =94.65
Relative Standard Deviation % =6.81

Endosulfan II
Number of samples =110
Recovery % =97.25
Relative Standard Deviation % =8.48

Endosulfan sulfate
Number of samples =110
Recovery % =101.35
Relative Standard Deviation % =8.44

Endrin
Number of samples =110
Recovery % =96.15
Relative Standard Deviation % =7.23

Endrin aldehyde
Number of samples =110
Recovery % =90.75
Relative Standard Deviation % =8.54

Endrin ketone
Number of samples =110
Recovery % =103.85
Relative Standard Deviation % =7.75

gamma-BHC
Number of samples =110
Recovery % =92.75
Relative Standard Deviation % =9.43

Statistical Data for Pesticides/PCBs by EPA TO-10A (continued)
Bureau Veritas work order 13081709

Gamma-chlordane
Number of samples =110
Recovery % = 94.55
Relative Standard Deviation % =7.56

Heptachlor
Number of samples =110
Recovery % =93.20
Relative Standard Deviation % =7.08

Heptachlor epoxide
Number of samples =110
Recovery % =94.15
Relative Standard Deviation % =7.74

Methoxychlor
Number of samples =110
Recovery % =96.95
Relative Standard Deviation % =8.27

Toxaphene
Number of samples =84
Recovery % =99.60
Relative Standard Deviation % =5.15

Aroclor 1016
Number of samples =108
Recovery % =93.45
Relative Standard Deviation % =8.04

Aroclor 1221
Number of samples =86
Recovery % =102.2
Relative Standard Deviation % =2.22

Aroclor 1242
Number of samples =86
Recovery % =94.50
Relative Standard Deviation % =19.58

Aroclor 1248
Number of samples =86
Recovery % =94.0
Relative Standard Deviation % =19.86

Aroclor 1254
Number of samples =86
Recovery % =96.75
Relative Standard Deviation % =2.84

Aroclor 1260
Number of samples =108
Recovery % =106.55
Relative Standard Deviation % =10.15

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BV - Novi

GALSON LABORATORIES
6601 Kirkville Rd
East Syracuse, NY 13057-9672
Tel: 315-437-5227
888-432-LABS(5227)
Fax: 315-437-0571
www.galsonlabs.com

Check if change of address ☐
New Client ? yes ☐ no ☐

Report To :	Shelly Krause	Invoice To :	Jeanne Glisson
	Galson Laboratory		Galson Laboratory
	6601 Kirkville Road		6601 Kirkville Road
	East Syracuse, NY 13057		East Syracuse, NY 13057
Phone No. :	888-432-5227	Phone No. :	888-432-5227
		Fax No.	315-437-0571

Site Name : Project : L298706 Sampled By : Client

Need Results By:	(surcharge)
☑ 10 Business Days	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same day	200%

Verbal Authorization :
Purchase Order No. : 24404
Credit Card No. : Card Holder Name : Exp. :

Fax Results To : Email Only Please Fax No. : Email Only Please
Email Results To : skrause@galsonlabs.com

Sample Identification	Date Sampled	Collection Medium	*Air Volume (liters)/ Passive Monitors (Min)	Analysis Requested	Method Reference	Specific DL Needed
✓ PERIMETER W	8/28/2013	PUF	622.	Polychlorinated Biphenyls	EPA TO-10A	
PERIMETER W	8/28/2013	PUF	622.	Organochlorine Pesticides	EPA TO-10A	
✓ PERIMETER E	8/28/2013	PUF	488.	Organochlorine Pesticides	EPA TO-10A	
PERIMETER E	8/28/2013	PUF	488.	Polychlorinated Biphenyls	EPA TO-10A	
✓ PERIMETER NE	8/28/2013	PUF	727.	Organochlorine Pesticides	EPA TO-10A	
PERIMETER NE	8/28/2013	PUF	727.	Polychlorinated Biphenyls	EPA TO-10A	

COMMENTS:

If the method being reported is not on your laboratory's current AIHA scope of accreditation, please state that in your report.
Please provide an uncertainty statement in accordance with AIHA LQAP policy document Section 2A.5.4.3. Need results by **09/16/13. Rush charges are not authorized.**

Chain of Custody	Print Name	Signature	Date/Time
Relinquished by :	Cameron Kennedy		08/29/13 1343
Received by LAB :	Lauren Cradwell		8/30 12:00

GALSON LABORATORIES
6601 Kirkville Rd
East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com

☐ New Client?

Client Account No.*: 24404

Report To*: Tim Costello
2969 Prospect Park Dr Ste 100
Rancho Cordova, CA 95670

Phone No.*: (916) 853-1800
Cell No.:
Email Results to: Timothy Costello
Email address: Timothy.Costello@Tetratech.com

Invoice To*: Tim Costello
2969 Prospect Park Dr Ste 100
Rancho Cordova, CA 95670

Phone No.: (916) 853-1800
Email:
P.O. No.:
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
☒ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

Site Name: VOP Hayward 23836 Saklan Project: Sampled by: CARRETT KUHL

Comments:

List description of industry or Process/interferences present in sampling area:

State samples were collected in (e.g., NY): CA

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
Perimeter W	8/26/13	PUF	622	L	OC Pesticides / PCBs	TO-10A	
Perimeter E	8/28/13	PUF	488	L	" "	TO-10A	
Perimeter NE	8/28/13	PUF	727	L	" "	TO-10A	

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by:	CARRETT KUHL	8/28/13	1650	Received by:	FEDEX	8/28/13	1650
Relinquished by:	FEDEX			Received by:		8/29/13	1158

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed

Page ___ of ___

Mr. Tim Costello
Tetra Tech GEO
2969 Prospect Park Drive
#100
Rancho Cordova, CA 95670

November 08, 2013

Account# 24404

Login# L303238

Dear Mr. Costello:

Enclosed are the analytical results for the samples received by our laboratory on October 24, 2013. All test results meet the quality control requirements of AIHA and NELAC unless otherwise stated in this report. All samples on the chain of custody were received in good condition unless otherwise noted.

The samples submitted for Pesticides/PCBs were subcontracted to Bureau Veritas/Clayton Group Services, Inc. Their report is enclosed in its entirety.

Results in this report are based on the sampling data provided by the client and refer only to the samples as they were received at the laboratory. Unless otherwise requested, all samples will be discarded 14 days from the date of this report, with the exception of IOMs, which will be cleaned and disposed of after seven calendar days.

Current Scopes of Accreditation can be viewed at www.galsonlabs.com in the accreditations section under the "about Galson" tab.

Please contact Heidi Fruhlinger at (888) 432-5227, if you would like any additional information regarding this report.

Thank you for using Galson Laboratories.

Sincerely,

Galson Laboratories

Mary G Unangst

Mary G. Unangst
Laboratory Director

Enclosure(s)

November 07, 2013

Shelly Krause
GALSON LABORATORIES
6601 Kirkville Road
East Syracuse, NY 13057-

Bureau Veritas Work Order No. 13101674

Reference: L303238

Dear Shelly Krause:

Bureau Veritas North America, Inc. received 3 samples on October 25, 2013 for the analyses presented in the following report.

Enclosed is a copy of the Chain-of-Custody record, acknowledging receipt of these samples. Please note that any unused portion of the samples will be discarded 30 days after the date of this report, unless you have requested otherwise.

This material is confidential and is intended solely for the person to whom it is addressed. If this is received in error, please contact the number provided below.

We appreciate the opportunity to assist you. If you have any questions concerning this report, please contact a Client Services Representative at (800) 806-5887.

Sincerely,

Ellen Coffman

Client Services Representative
Electronic signature authorized through password protection

CASE NARRATIVE

Date: *05-Nov-13*

CLIENT: GALSON LABORATORIES

Project: L303238

Work Order No 13101674

The results of this report relate only to the samples listed in the body of this report.

Unless otherwise noted below, the following statements apply: 1) all samples were received in acceptable condition, 2) all quality control results associated with this sample set were within acceptable limits and/or do not adversely affect the reported results, and 3) the industrial hygiene results have not been blank corrected.

See attached for statistical information.

ANALYTICAL RESULTS

Date: *05-Nov-13*

Client: GALSON LABORATORIES

Project: L303238 **Work Order No:** 13101674

Sample Identification: PERIMETER E

Lab Number: 001A **Date Sampled:** 10/21/2013

Sample Type: PUF Tube **Date Received:** 10/25/2013

Analyst: CPF **Air Volume (L):** 512

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
4,4´-DDD	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
4,4´-DDE	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
4,4´-DDT	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Aldrin	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
alpha-BHC	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
alpha-Chlordane	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Aroclor 1016	<0.5	<0.00098	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1221	<0.5	<0.00098	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1232	<0.5	<0.00098	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1242	<0.5	<0.00098	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1248	<0.5	<0.00098	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1254	<0.5	<0.00098	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1260	<0.5	<0.00098	--	0.5	EPA TO-10A modified	10/30/2013
beta-BHC	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Chlordane	<0.25	<0.00049	--	0.25	EPA TO-10A modified	10/30/2013
Chlordane, Technical	<0.25	<0.00049	--	0.25	EPA TO-10A modified	10/30/2013
delta-BHC	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Dieldrin	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Endosulfan I	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Endosulfan II	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Endosulfan sulfate	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Endrin	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Endrin aldehyde	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Endrin ketone	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
gamma-BHC	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
gamma-Chlordane	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Heptachlor	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Heptachlor epoxide	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013
Methoxychlor	<0.05	<0.000098	--	0.05	EPA TO-10A modified	10/30/2013

ANALYTICAL RESULTS

Date: *05-Nov-13*

Client: GALSON LABORATORIES

Project: L303238 **Work Order No:** 13101674

Sample Identification: PERIMETER E

Lab Number: 001A **Date Sampled:** 10/21/2013

Sample Type: PUF Tube **Date Received:** 10/25/2013

Analyst: CPF **Air Volume (L):** 512

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
Toxaphene	<1	<0.0020	--	1	EPA TO-10A modified	10/30/2013

ANALYTICAL RESULTS

Date: *05-Nov-13*

Client: GALSON LABORATORIES

Project: L303238 **Work Order No:** 13101674

Sample Identification: PERIMETER NE

Lab Number: 002A **Date Sampled:** 10/21/2013

Sample Type: PUF Tube **Date Received:** 10/25/2013

Analyst: CPF **Air Volume (L):** 556

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
4,4´-DDD	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
4,4´-DDE	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
4,4´-DDT	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Aldrin	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
alpha-BHC	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
alpha-Chlordane	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Aroclor 1016	<0.5	<0.00090	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1221	<0.5	<0.00090	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1232	<0.5	<0.00090	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1242	<0.5	<0.00090	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1248	<0.5	<0.00090	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1254	<0.5	<0.00090	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1260	<0.5	<0.00090	--	0.5	EPA TO-10A modified	10/30/2013
beta-BHC	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Chlordane	<0.25	<0.00045	--	0.25	EPA TO-10A modified	10/30/2013
Chlordane, Technical	<0.25	<0.00045	--	0.25	EPA TO-10A modified	10/30/2013
delta-BHC	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Dieldrin	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Endosulfan I	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Endosulfan II	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Endosulfan sulfate	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Endrin	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Endrin aldehyde	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Endrin ketone	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
gamma-BHC	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
gamma-Chlordane	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Heptachlor	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Heptachlor epoxide	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013
Methoxychlor	<0.05	<0.000090	--	0.05	EPA TO-10A modified	10/30/2013

ANALYTICAL RESULTS

Date: *05-Nov-13*

Client: GALSON LABORATORIES

Project: L303238 **Work Order No:** 13101674

Sample Identification: PERIMETER NE

Lab Number: 002A **Date Sampled:** 10/21/2013

Sample Type: PUF Tube **Date Received:** 10/25/2013

Analyst: CPF **Air Volume (L):** 556

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
Toxaphene	<1	<0.0018	--	1	EPA TO-10A modified	10/30/2013

ANALYTICAL RESULTS

Date: *05-Nov-13*

Client: GALSON LABORATORIES

Project: L303238 **Work Order No:** 13101674

Sample Identification: PERIMETER EDEN

Lab Number: 003A **Date Sampled:** 10/21/2013

Sample Type: PUF Tube **Date Received:** 10/25/2013

Analyst: CPF **Air Volume (L):** 530

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
4,4´-DDD	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
4,4´-DDE	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
4,4´-DDT	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Aldrin	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
alpha-BHC	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
alpha-Chlordane	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Aroclor 1016	<0.5	<0.00094	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1221	<0.5	<0.00094	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1232	<0.5	<0.00094	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1242	<0.5	<0.00094	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1248	<0.5	<0.00094	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1254	<0.5	<0.00094	--	0.5	EPA TO-10A modified	10/30/2013
Aroclor 1260	<0.5	<0.00094	--	0.5	EPA TO-10A modified	10/30/2013
beta-BHC	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Chlordane	<0.25	<0.00047	--	0.25	EPA TO-10A modified	10/30/2013
Chlordane, Technical	<0.25	<0.00047	--	0.25	EPA TO-10A modified	10/30/2013
delta-BHC	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Dieldrin	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Endosulfan I	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Endosulfan II	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Endosulfan sulfate	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Endrin	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Endrin aldehyde	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Endrin ketone	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
gamma-BHC	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
gamma-Chlordane	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Heptachlor	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Heptachlor epoxide	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013
Methoxychlor	<0.05	<0.000094	--	0.05	EPA TO-10A modified	10/30/2013

ANALYTICAL RESULTS

Date: *05-Nov-13*

Client: GALSON LABORATORIES

Project: L303238 **Work Order No:** 13101674

Sample Identification: PERIMETER EDEN

Lab Number: 003A **Date Sampled:** 10/21/2013

Sample Type: PUF Tube **Date Received:** 10/25/2013

Analyst: CPF **Air Volume (L):** 530

Analyte	Analytical Results (µg)	Analytical Results (mg/m^3)	Analytical Results (ppm)	Reporting Limit (µg)	Test Method	Date Analyzed
Toxaphene	<1	<0.0019	--	1	EPA TO-10A modified	10/30/2013

General Notes:
<: Less than the indicated reporting limit (RL).
--: Information not available or not applicable.
Back sections (if applicable) were checked and showed no significant breakthrough unless otherwise noted.

Statistical Data for Pesticides/PCBs by EPA TO-10A
Bureau Veritas work order 13101674

4,4-DDD
Number of samples =109
Recovery % =101.05
Relative Standard Deviation % =11.20

4,4-DDE
Number of samples =110
Recovery % =98.60
Relative Standard Deviation % =7.91

4,4-DDT
Number of samples =110
Recovery % =93.80
Relative Standard Deviation % =8.96

Aldrin
Number of samples =110
Recovery % =89.3
Relative Standard Deviation % =13.33

Alpha-BHC
Number of samples =110
Recovery % =87.10
Relative Standard Deviation % =9.91

Alpha-chlordane
Number of samples =110
Recovery % =95.30
Relative Standard Deviation % =6.89

Beta-BHC
Number of samples =110
Recovery % =95.8
Relative Standard Deviation % =6.33

delta-BHC
Number of samples =110
Recovery % =90.10
Relative Standard Deviation % =8.10

Dieldrin
Number of samples =110
Recovery % =93.35
Relative Standard Deviation % =8.09

Endosulfan I
Number of samples =110
Recovery % =94.65
Relative Standard Deviation % =6.81

Endosulfan II
Number of samples =110
Recovery % =97.25
Relative Standard Deviation % =8.48

Endosulfan sulfate
Number of samples =110
Recovery % =101.35
Relative Standard Deviation % =8.44

Endrin
Number of samples =110
Recovery % =96.15
Relative Standard Deviation % =7.23

Endrin aldehyde
Number of samples =110
Recovery % =90.75
Relative Standard Deviation % =8.54

Endrin ketone
Number of samples =110
Recovery % =103.85
Relative Standard Deviation % =7.75

gamma-BHC
Number of samples =110
Recovery % =92.75
Relative Standard Deviation % =9.43

Statistical Data for Pesticides/PCBs by EPA TO-10A (continued)
Bureau Veritas work order 13101674

Gamma-chlordane
Number of samples =110
Recovery % = 94.55
Relative Standard Deviation % =7.56

Heptachlor
Number of samples =110
Recovery % =93.20
Relative Standard Deviation % =7.08

Heptachlor epoxide
Number of samples =110
Recovery % =94.15
Relative Standard Deviation % =7.74

Methoxychlor
Number of samples =110
Recovery % =96.95
Relative Standard Deviation % =8.27

Toxaphene
Number of samples =84
Recovery % =99.60
Relative Standard Deviation % =5.15

Aroclor 1016
Number of samples =108
Recovery % =93.45
Relative Standard Deviation % =8.04

Aroclor 1221
Number of samples =86
Recovery % =102.2
Relative Standard Deviation % =2.22

Aroclor 1242
Number of samples =86
Recovery % =94.50
Relative Standard Deviation % =19.58

Aroclor 1248
Number of samples =86
Recovery % =94.0
Relative Standard Deviation % =19.86

Aroclor 1254
Number of samples =86
Recovery % =96.75
Relative Standard Deviation % =2.84

Aroclor 1260
Number of samples =108
Recovery % =106.55
Relative Standard Deviation % =10.15

Please note that there are not enough data points to provide statistical information for Aroclor 1232, chlordane or technical chlordane.

13101674

BV - Novi

GALSON LABORATORIES
6601 Kirkville Rd
East Syracuse, NY 13057-9672
Tel: 315-437-5227
888-432-LABS(5227)
Fax: 315-437-0571
www.galsonlabs.com

Check if change of address ☐
New Client ? yes ☐ no ☐

Report To :	Shelly Krause	Invoice To :	Jeanne Glisson
	Galson Laboratory		Galson Laboratory
	6601 Kirkville Road		6601 Kirkville Road
	East Syracuse, NY 13057		East Syracuse, NY 13057
Phone No. :	888-432-5227	Phone No. :	888-432-5227
		Fax No.	315-437-0571

Site Name : Project : L303238 Sampled By : Client

Need Results By:	(surcharge)
☑ 10 Business Days	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same day	200%

Verbal Authorization :
Purchase Order No. : 24404
Credit Card No. : Card Holder Name : Exp. :

Fax Results To : Email Only Please Fax No. : Email Only Please
Email Results To : skrause@galsonlabs.com

Sample Identification	Date Sampled	Collection Medium	*Air Volume (liters)/ Passive Monitors (Min)	Analysis Requested	Method Reference	Specific DL Needed
✓ PERIMETER E	10/21/2013	PUF	512.	Polychlorinated Biphenyls	EPA TO-10A	
PERIMETER E	10/21/2013	PUF	512.	Organochlorine Pesticides	EPA TO-10A	
✓ PERIMETER NE	10/21/2013	PUF	556.	Organochlorine Pesticides	EPA TO-10A	
PERIMETER NE	10/21/2013	PUF	556.	Polychlorinated Biphenyls	EPA TO-10A	
✓ PERIMETER EDEN	10/21/2013	PUF	530	Organochlorine Pesticides	EPA TO-10A	
PERIMETER EDEN	10/21/2013	PUF	530	Polychlorinated Biphenyls	EPA TO-10A	

COMMENTS:

If the method being reported is not on your laboratory's current AIHA scope of accreditation, please state that in your report.
Please provide an uncertainty statement in accordance with AIHA LQAP policy document Section 2A.5.4.3. Need results by **11/08/13. Rush charges are not authorized.**

Chain of Custody	Print Name	Signature	Date/Time
Relinquished by :	Cameron Kennedy		10/24/13 1617
Received by LAB :	Lauren Kadwell		10/25 12:20

GALSON LABORATORIES
6601 Kirkville Rd
East Syracuse, NY 13057
Tel: (315) 432-5227
888-432-LABS (5227)
Fax: (315) 437-0571
www.galsonlabs.com

☐ New Client?

Client Account No.*: 24464

Report To*: Tim Costello
2969 Prospect Park Dr Ste 100
Rancho Cordova, CA 95670

Phone No.*: (916) 853-1800
Cell No.:
Email Results to: Timothy Costello
Email address: Timothy.Costello@Tetratech.com

Invoice To*: Tim Costello
2969 Prospect Park Dr Ste. 100
Rancho Cordova, CA 95670

Phone No.: (916) 853-1800
Email:
P.O. No.:
Credit Card: ☐ Card on File ☐ Call for Credit Card Info.

43

☐ Samples submitted using the FreePumpLoan™ Program ☐ Samples submitted using the FreeSamplingBadges™ Program

Need Results By:	(surcharge)
☒ Standard	0%
☐ 4 Business Days	35%
☐ 3 Business Days	50%
☐ 2 Business Days	75%
☐ Next Day by 6pm	100%
☐ Next Day by Noon	150%
☐ Same Day	200%

Site Name: VOP Hayward 23836 Salclan Project: Sampled by: Garrett Kuhl

Comments:

List description of industry or Process/interferences present in sampling area:

State samples were collected in (e.g., NY): CA

Please indicate which OEL this data will be used for:
☐ OSHA PEL ☐ ACGIH TLV ☐ Cal OSHA
☐ MSHA ☐ Other (specify):

Sample Identification* (Maxmium of 20 Characters)	Date Sampled	Collection Medium	Sample Volume Sample Time Sample Area*	Sample Units*: L, ml,min,in2,cm2,ft2	Analysis Requested*	Method Reference^	Hexavalent Chromium Process (e.g., welding plating, painting, etc.)*
Perimeter E	10/21/13	Puf	512	L	OC Pesticides/PCBs	TO-10A	
Perimeter NE	10/21/13	Puf	556	L	OC Pesticides/PCBs	TO-10A	
Perimeter EDEN	10/21/13	Puf	530	L	OC Pesticides/PCBs	TO-10A	

^Galson Laboratories will subsititute our routine/preferred method if it does not match the method listed on the COC unless this box is checked: ☐ Use method(s) listed on COC

For metals analysis: if requesting an analyte with the option of a lower LOQ, please indicate if the lower LOQ is required (only available for certain analytes - see SAG):

For crystalline silica: form(s) of silica needed must be indicated (Quartz, Cristobalite, and/or Tridymite)*:

Chain of Custody	Print Name/Signature	Date	Time		Print Name/Signature	Date	Time
Relinquished by:	GARRETT KUHL	10/23/13	1200	Received by:	FED EX	10/23/13	1200
Relinquished by:				Received by:	M. Krause / M. Krause	10/24/13	1114

Samples received after 3pm will be considered as next day's business
* Required fields, failure to complete these fields may result in a delay in your samples being processed.

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