Project No.
7828.000.001

October 30, 2014

Mr. Ravi Nandwana
BJP-ROF Jordan Ranch, LLC
5000 Hopyard Road, Suite 170
Pleasanton, CA 94588

Subject: Jordan Ranch Parcel H
Dublin, California

TOXAPHENE SOIL REMOVAL

Reference: Updated Soil Removal Workplan, Jordan Ranch Parcel H, July 28, 2014

Dear Mr. Nandwana:

This report documents the soil remediation activities that were implemented on behalf of BJP-ROF Jordan Ranch, LLC at the Jordan Ranch Parcel H (Site) in Dublin, California (Figure 1). The soil removal was implemented to address toxaphene impacts that were identified within a limited area of the proposed residential development project.

BACKGROUND

The approximately 4.6-acre Property is located at the intersection of Fallon Road and Central Parkway.

In August 2013, soil samples were collected to address potential polychlorinated biphenyl (PCB) impacts at the base of a former power pole and petroleum staining previously observed near a former barn and above-ground storage areas. The footprints of the former structures were obtained from Google Earth and are overlayed on Figure 2. The only detection that exceeded Table K-1 ESLs was a detection of toxaphene at location Barn SS-7 at a depth of 0 to 6 inches. The detected toxaphene concentration, 3.6 mg/kg, is less than the state hazardous waste threshold, but exceeds residential screening criteria. Diesel and motor oil detections were also colocated at Barn SS-7, at 63 and 230 mg/kg. Cumulative soil analytical data is tabulated in Table 1.

In July 2014, we collected four additional step-out samples around prior location SS-7. Samples *N, S, E, W*, were collected 15 feet from prior location SS-7. The samples were collected at a depth of 0 to 0.5 foot below ground surface. Diesel was detected at a maximum concentration of 41 mg/kg in sample *S*. Motor oil was detected at a maximum concentration of 250 mg/kg in sample *S*. DDE and DDD were detected up to a maximum concentration of 0.012 mg/kg in sample *N*. Toxaphene was not detected above laboratory reporting limits.

REMOVAL ACTION OBJECTIVES

The removal action objective (RAO) was to reduce the human health risks associated with the chemicals of potential concern (COPC) at the Property to a level that is acceptable for the planned residential development. Based on the RAO, cleanup levels were established that are protective of human health and the environment and reduce the potential for exposure to the COPC in soil encountered at the Property. The established RAOs are as follows:

TABLE 1
Remedial Action Objectives

COPC	Basis for RAO	RAO
TPH Diesel	Residential ESL (RWQCB, Table K-1)	240 mg/kg
TPH Motor Oil	Residential ESL (RWQCB, Table K-1)	10,000 mg/kg
Toxaphene	Residential CHHSL (DTSC)	0.46 mg/kg
DDE	Residential CHHSL (DTSC)	1.6 mg/kg
DDD	Residential CHHSL (DTSC)	2.3 mg/kg

DEBRIS REMOVAL ACTION

We observed the soil excavation on August 29, 2014. We retained a hazmat licensed excavation subcontractor to perform the soil excavation and landfill disposal. A mini excavator was utilized to remove a 20 by 20 foot area, centered on location SS-7, to a depth of 12 inches below existing grade. The excavated soil was placed on plastic and temporarily staged onsite for landfill profiling.

We collected four samples from the base of the excavation and submitted them as discrete samples for lab analysis of diesel and motor oil by EPA Test Method 8015B, silica gel cleanup by EPA Test Method 3630, and organochlorine pesticides by EPA Test Method 8081. A four point composite sample was collected from the stockpile for landfill profiling.

CONCLUSION

The four discrete confirmation soil samples that were collected from the excavation base exhibited no detections above laboratory reporting limits. The reporting limits are less than the RAOs. The stockpile composite sample exhibited detections of motor oil at 120 mg/kg and toxaphene at 14 mg/kg. The removal action involved excavation of approximately 29 tons of Class I soil and disposal of this material at the Clean Harbors Buttonwillow Facility. Landfill scale receipts are attached. We conclude that the RAOs for surface soil at the Site have been achieved.

We are pleased to be of service to you on this project. If you have any questions concerning this report, please contact us.

Sincerely,

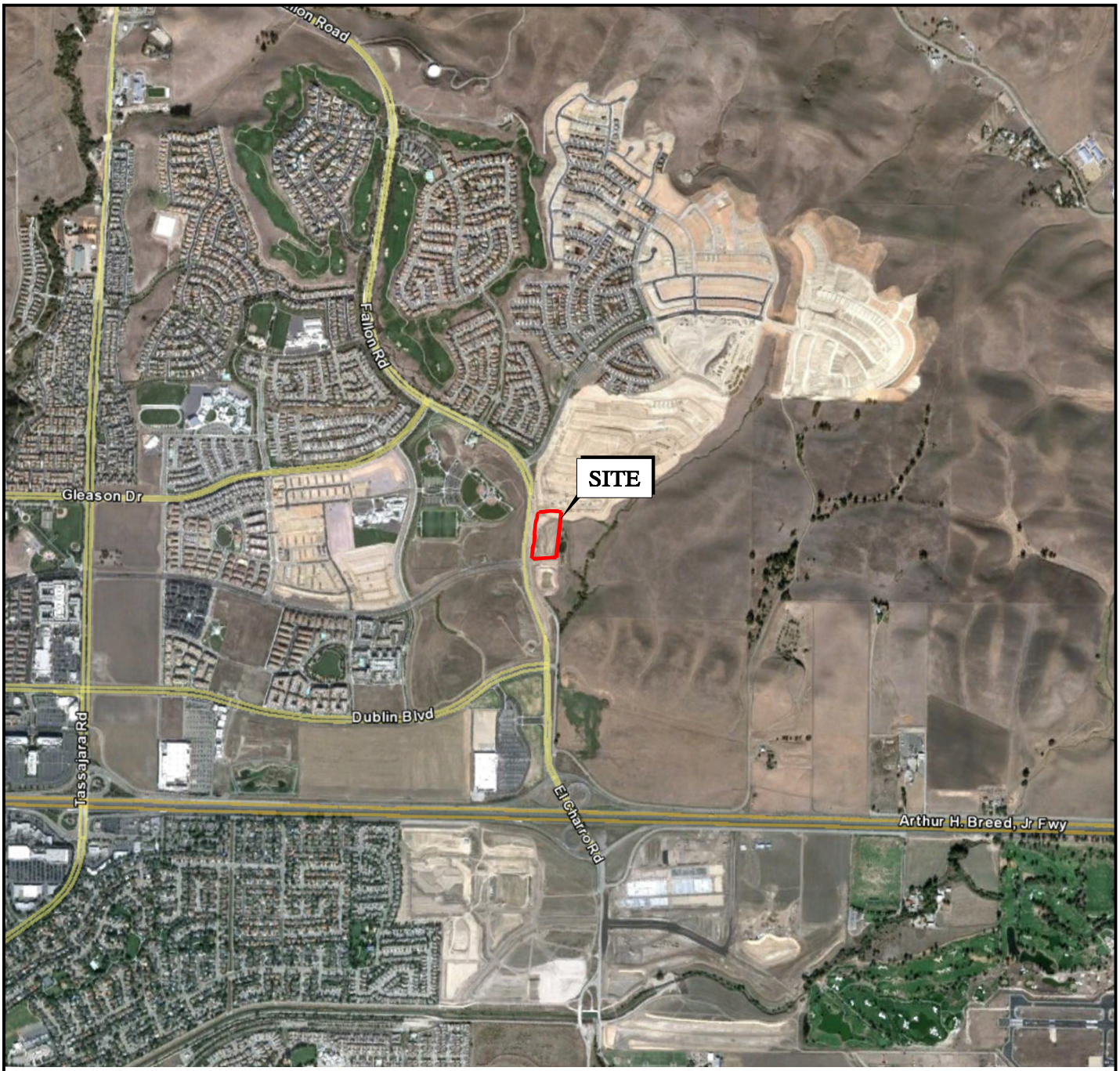
ENGEO Incorporated

Morgan Johnson
Environmental Scientist

Shawn Munger, CHG
Principal

Attachments: Figure 1 - Site Vicinity Map
Figure 2 - Excavation and Sample Location Map
Table 1 – Cumulative Soil Analytical Data
Certified Laboratory Analytical Reports
Landfill Scale Receipts Perjury Statement

FIGURES



N

0 FEET 2000

0 METERS 1000

BASE MAP SOURCE: GOOGLE EARTH

ENGEO Expect Excellence

VICINITY MAP

JORDAN RANCH - PARCEL H

DUBLIN, CALIFORNIA

PROJECT NO.: 7828.000.001		FIGURE NO. 1
DATE: AS SHOWN		
DRAWN BY: SRP	CHECKED BY: SM	

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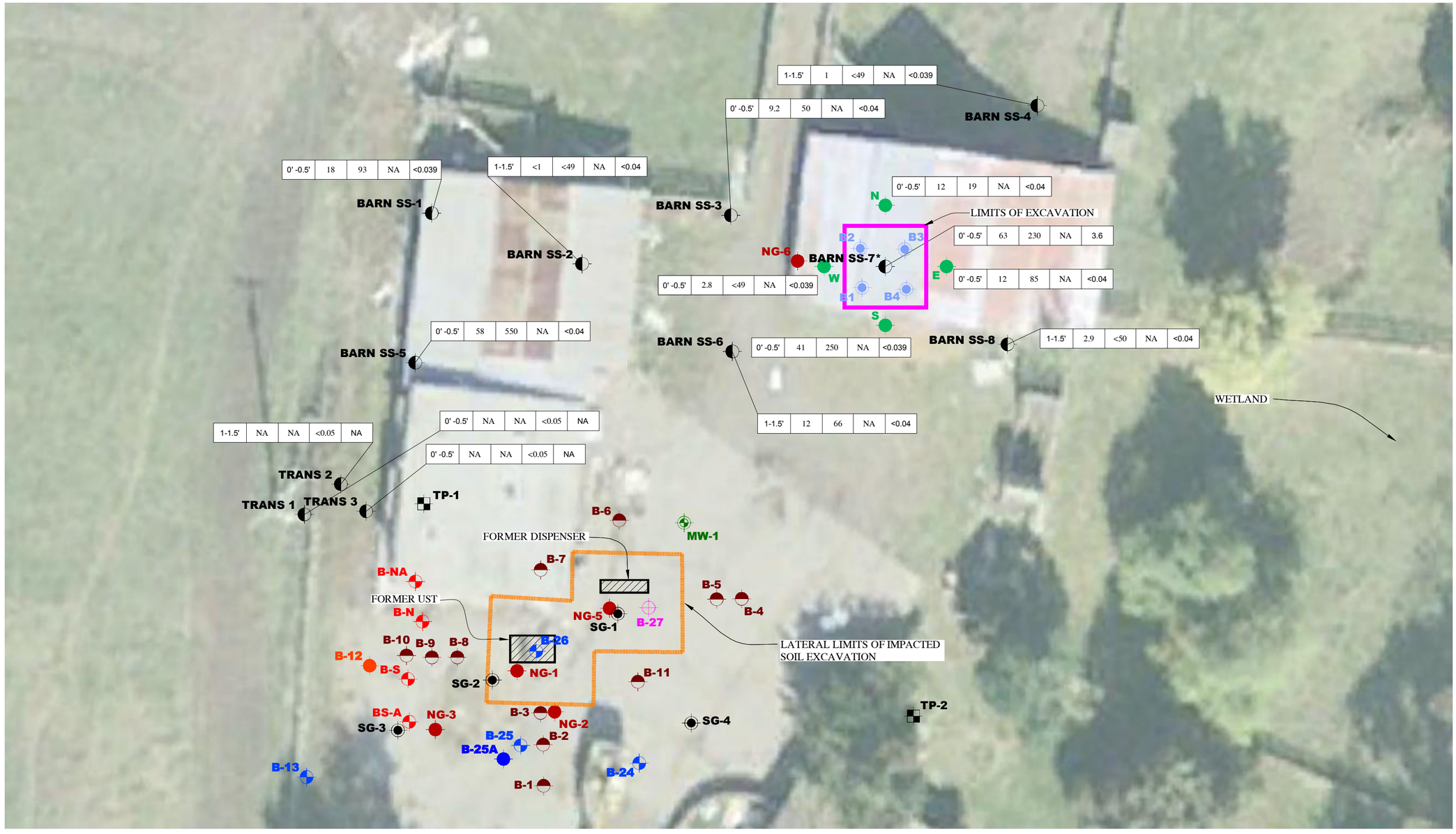
ORIGINAL FIGURE PRINTED IN COLOR



EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

- MW-5 — MONITORING WELL LOCATION (OCTOBER 2012
- B-25A — PROPOSED GRAB GROUNDWATER SAMPLE LOCATION
- B-32 — GRAB GROUNDWATER SAMPLE SURVEYED WITH GPS LOCATION (ENGEO 2012/2013)
- NG-5 — GRAB GROUNDWATER SAMPLE LOCATION (NEM, 2006)
- TP-3 — GRAB GROUNDWATER SAMPLE LOCATION (ICES, 2006)
- B-12 — SOIL AND GRAB GROUNDWATER SAMPLE LOCATION (ENGEO 2012/2013)
- BS-A — GRAB SOIL SAMPLE LOCATION
- TRANS 3/BARN SS-7 — SURFACE SOIL SAMPLE LOCATION (ENGEO, 9-2013)
- B-27 — SOIL SAMPLE ONLY LOCATION (ENGEO, 2012/2013)
- B-11 — SOIL BORING FOR SOIL SAMPLING AND PID SCREENING LOCATION (ENGEO, 2012)
- SG-4 — SOIL GAS WELL LOCATION
- N — STEP OUT SOIL SAMPLE (ENGEO , 7-2014)
- B4 — CONFIRMATION SOIL SAMPLES COLLECTED FROM EXCAVATION BASE (ENGEO, 8-2014)

x	x	x	x	x

- TOXAPHENE
- PCB'S
- TOTAL PETROLEUM HYDROCARBONS AS MOTOR OIL
- TOTAL PETROLEUM HYDROCARBONS AS DIESEL (TPHd)
- DEPTH

ALL REPORTED IN MICROGRAMS PER LITER (mg/kg)

* SAMPLE LOCATION EXCAVATED

BASE MAP SOURCE: GOOGLE EARTH PRO, 2008

N

0 FEET 20
0 METERS 10

ENGEO Expect Excellence

SOIL EXCAVATION MAP
JORDAN RANCH - PARCEL H
DUBLIN, CALIFORNIA

PROJECT NO.: 7828.000.001
SCALE: AS SHOWN
DRAWN BY: SRP CHECKED BY: SM

FIGURE NO. 2

ORIGINAL FIGURE PRINTED IN COLOR

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TABLE 1

Cumulative Soil Analytical Data

10072.000.000
October 30, 2014

TABLE 1
Surface Soil Analytical Data

Client Sample ID	Date	Sample depth	Location	Gasoline Range Organics (GRO)-C5-C12	Diesel Range Organics [C10-C28]	Motor Oil Range Organics [C24-C36]	4,4'-DDD	4,4'-DDE	4,4'-DDT		alpha-BHC	alpha-Chlordane	beta-BHC	Chlordane (technical)	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC (Lindane)	gamma-Chlordane	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260	1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane
				mg/kg	mg/kg	mg/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BARNSS-1@0-6	08/30/13	0-6	North barn area	<.250	**18**	**93**	<2.0	<2.0	<2.0	<2.0	<2.0	3.0	<2.0	<39	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<39	-	-	-	-	-	-	-	<5.1	<5.1
BARNSS-2@12-18	08/30/13	12-18	North barn area	<.240	<0.99	<49	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	-	-	-	-	-	-	-	<4.9	<4.9
BARNSS-3@0-6	08/30/13	0-6	North barn area	<.250	**9.2**	**50**	**3.3**	**14**	<2.0	<2.0	<2.0	**2.4**	<2.0	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	-	-	-	-	-	-	-	<4.9	<4.9
BARNSS-4@12-18	08/30/13	12-18	North barn area	<.240	**1.0**	<49	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<39	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<39	-	-	-	-	-	-	-	<4.9	<4.9
BARNSS-5@0-6	08/30/13	0-6	North barn area	<.250	**58**	**550**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	-	-	-	-	-	-	-	<5.0	<5.0
BARNSS-6@12-18	08/30/13	12-18	North barn area	<.240	**12**	**66**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	-	-	-	-	-	-	-	<4.8	<4.8
BARNSS-7@0-6	08/30/13	0-6	North barn area	<.240	**63**	**230**	<99	<99	<99	<99	<99	<99	<99	<2000	<99	<99	<99	<99	<99	<99	<99	<99	<99	<99	310	<99	**36000**	-	-	-	-	-	-	-	<4.7	<4.7
BARNSS-8@12-16	08/30/13	12-18	North barn area	<.240	**2.9**	<50	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	-	-	-	-	-	-	-	<4.9	<4.9
TRANSS-1@0-6	08/30/13	0-6	Former transformer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<50	-	-
TRANSS-2@12-18	08/30/13	12-18	Former transformer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<50	<50	<50	<50	<50	<50	<50	-	-
TRANSS-3@0-6	08/30/13	0-6	Former transformer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<49	<49	<49	<49	<49	<49	<49	-	-
N	7/11/2014	0-6	North barn area	-	**12**	**69**	**2.6**	**12**	<2.0	<2.0	<2.0	**7.7**	<2.0	**55**	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	**11**	<2.0	<2.0	<2.0	<40	-	-	-	-	-	-	-	-	-
S	7/11/2014	0-6	North barn area	-	**41**	**250**	<1.9	**7.2**	<1.9	<1.9	<1.9	37	<1.9	**240**	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	<1.9	**55**	<1.9	<1.9	<1.9	<39	-	-	-	-	-	-	-	-	-
E	7/11/2014	0-6	North barn area	-	**12**	**85**	<2.0	**7.0**	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<40	-	-	-	-	-	-	-	-	-
W	7/11/2014	0-6	North barn area	-	**2.8**	**<49**	<2.0	**10**	<2.0	<2.0	<2.0	<2.0	<2.0	<39	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<39	-	-	-	-	-	-	-	-	-
B1	8/29/2014	Ex base	North barn area	-	<2	<10	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<100	-	-	-	-	-	-	-	-	-
B2	8/29/2014	Ex base	North barn area	-	<2	<10	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<100	-	-	-	-	-	-	-	-	-
B3	8/29/2014	Ex base	North barn area	-	<2	<10	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<100	-	-	-	-	-	-	-	-	-
B4	8/29/2014	Ex base	North barn area	-	<2	<10	<2	<2	<2	<2	<2	<2	<2	<20	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<2	<5	<100	-	-	-	-	-	-	-	-	-

TABLE 1
Surface Soil Analytical Data

Client Sample ID	Date	Sample depth	Location	1,1,2,2-Tetrachloroethane	1,1,2-Trichloro-1,2,2-trifluoroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,1-Dichloropropene	1,2,3-Trichlorobenzene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dibromo-3-Chloropropane	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,3-Dichloropropane	1,4-Dichlorobenzene	2,2-Dichloropropane	2-Butanone (MEK)	2-Chlorotoluene	2-Hexanone	4-Chlorotoluene	4-Isopropyltoluene	4-Methyl-2-pentanone (MIBK)	Acetone	Benzene	Bromobenzene	Bromoform	Bromomethane	Carbon disulfide	Carbon tetrachloride	Chlorobenzene	Chlorobromomethane
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BARNSS-1@0-6	08/30/13	0-6	North barn area	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<51	<5.1	<51	<5.1	<5.1	<51	57	<5.1	<5.1	<5.1	<10	<5.1	<5.1	<5.1	<20
BARNSS-2@12-18	08/30/13	12-18	North barn area	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<49	<4.9	<49	<4.9	<4.9	<49	<49	<4.9	<4.9	<4.9	<9.7	<4.9	<4.9	<4.9	<19
BARNSS-3@0-6	08/30/13	0-6	North barn area	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<49	<4.9	<49	<4.9	<4.9	<49	<49	<4.9	<4.9	<4.9	<9.9	<4.9	<4.9	<4.9	<20
BARNSS-4@12-18	08/30/13	12-18	North barn area	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<49	<4.9	<49	<4.9	<4.9	<49	<49	<4.9	<4.9	<4.9	<9.7	<4.9	<4.9	<4.9	<19
BARNSS-5@0-6	08/30/13	0-6	North barn area	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<50	<5.0	<5.0	<50	<42	<5.0	<5.0	<5.0	<9.9	<5.0	<5.0	<5.0	<20
BARNSS-6@12-18	08/30/13	12-18	North barn area	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<48	<4.8	<48	<4.8	<4.8	<48	<48	<4.8	<4.8	<4.8	<9.7	<4.8	<4.8	<4.8	<19
BARNSS-7@0-6	08/30/13	0-6	North barn area	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<47	<4.7	<47	<4.7	<4.7	<47	<47	<4.7	<4.7	<4.7	<9.5	<4.7	<4.7	<4.7	<19
BARNSS-8@12-16	08/30/13	12-18	North barn area	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<49	<4.9	<49	<4.9	<4.9	<49	<49	<4.9	<4.9	<4.9	<9.7	<4.9	<4.9	<4.9	<19
TRANSS-1@0-6	08/30/13	0-6	Former transformer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRANSS-2@12-18	08/30/13	12-18	Former transformer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRANSS-3@0-6	08/30/13	0-6	Former transformer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N	7/11/2014	0-6	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S	7/11/2014	0-6	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E	7/11/2014	0-6	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W	7/11/2014	0-6	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B1	8/29/2014	Ex base	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B2	8/29/2014	Ex base	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B3	8/29/2014	Ex base	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B4	8/29/2014	Ex base	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1
Surface Soil Analytical Data

Client Sample ID	Date	Sample depth	Location	Chlorodibromomethane	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromomethane	Dichlorobromomethane	Dichlorodifluoromethane	Ethylbenzene	Ethylene Dibromide	Hexachlorobutadiene	Isopropylbenzene	Methyl tert-butyl ether	Methylene Chloride	Naphthalene	n-Butylbenzene	N-Propylbenzene	sec-Butylbenzene	Styrene	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Trichlorofluoromethane	Vinyl acetate	Vinyl chloride	Xylenes, Total
				ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg	ug/kg
BARNSS-1@0-6	08/30/13	0-6	North barn area	<5.1	<10	<5.1	<10	<5.1	<5.1	<10	<5.1	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<10	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<51	<5.1	<10
BARNSS-2@12-18	08/30/13	12-18	North barn area	<4.9	<9.7	<4.9	<9.7	<4.9	<4.9	<9.7	<4.9	<9.7	<4.9	<4.9	<4.9	<4.9	<4.9	<9.7	<9.7	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<49	<4.9	<9.7
BARNSS-3@0-6	08/30/13	0-6	North barn area	<4.9	<9.9	<4.9	<9.9	<4.9	<4.9	<9.9	<4.9	<9.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.9	<9.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<49	<4.9	<9.9
BARNSS-4@12-18	08/30/13	12-18	North barn area	<4.9	<9.7	<4.9	<9.7	<4.9	<4.9	<9.7	<4.9	<9.7	<4.9	<4.9	<4.9	<4.9	<4.9	<9.7	<9.7	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<49	<4.9	<9.7
BARNSS-5@0-6	08/30/13	0-6	North barn area	<5.0	<9.9	<5.0	<9.9	<5.0	<5.0	<9.9	<5.0	<9.9	<5.0	<5.0	<5.0	<5.0	<5.0	<9.9	<9.9	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<9.9
BARNSS-6@12-18	08/30/13	12-18	North barn area	<4.8	<9.7	<4.8	<9.7	<4.8	<4.8	<9.7	<4.8	<9.7	<4.8	<4.8	<4.8	<4.8	<4.8	<9.7	<9.7	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<48	<4.8	<9.7
BARNSS-7@0-6	08/30/13	0-6	North barn area	<4.7	<9.5	<4.7	<9.5	<4.7	<4.7	<9.5	<4.7	<9.5	<4.7	<4.7	<4.7	<4.7	<4.7	<9.5	<9.5	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<47	<4.7	<9.5
BARNSS-8@12-16	08/30/13	12-18	North barn area	<4.9	<9.7	<4.9	<9.7	<4.9	<4.9	<9.7	<4.9	<9.7	<4.9	<4.9	<4.9	<4.9	<4.9	<9.7	<9.7	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<49	<4.9	<9.7
TRANSS-1@0-6	08/30/13	0-6	Former transformer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRANSS-2@12-18	08/30/13	12-18	Former transformer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
TRANSS-3@0-6	08/30/13	0-6	Former transformer	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
N	7/11/2014	0-6	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
S	7/11/2014	0-6	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
E	7/11/2014	0-6	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
W	7/11/2014	0-6	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B1	8/29/2014	Ex base	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B2	8/29/2014	Ex base	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B3	8/29/2014	Ex base	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
B4	8/29/2014	Ex base	North barn area	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

CERTIFIED LABORATORY ANALYTICAL REPORTS

10072.000.000
October 30, 2014

Engeo (San Ramon)
2010 Crow Canyon Place,#250
San Ramon, California 94583
Tel: (925) 866-9000
Fax: (925) 866-0199

RE: Jordan Ranch

Work Order No.: 1408181

Dear Shawn Munger:

Torrent Laboratory, Inc. received 8 sample(s) on August 29, 2014 for the analyses presented in the following Report.

As per Chain of Custody instruction, four discrete samples were analyzed for OCPs and TPH diesel/motor oil. Four additional samples were composited 4:1 for OCP, CAM17, TPH gas/diesel/motor oil and VOC analysis.

All data for associated QC met EPA or laboratory specification(s) except where noted in the case narrative.

Torrent Laboratory, Inc. is certified by the State of California, ELAP #1991. If you have any questions regarding these test results, please feel free to contact the Project Management Team at (408)263-5258; ext 204.

Patti Sandrock
QA Officer

September 04, 2014
Date

Date: 9/4/2014

Client: Engeo (San Ramon)

Project: Jordan Ranch

Work Order: 1408181

CASE NARRATIVE

No issues encountered with the receiving, preparation, analysis or reporting of the results associated with this work order.

Unless otherwise indicated in the following narrative, no results have been method and/or field blank corrected.

Reported results relate only to the items/samples tested by the laboratory.

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Shawn Munger
Engeo (San Ramon)

Date Received: 08/29/14
Date Reported: 09/04/14

B1 1408181-001

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

B2 1408181-002

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

B3 1408181-003

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

B4 1408181-004

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit

All compounds were non-detectable for this sample.

Torrent LABORATORY, INC.

Sample Result Summary

Report prepared for: Shawn Munger
Engeo (San Ramon)

Date Received: 08/29/14
Date Reported: 09/04/14

Comp SP (1-4) 1408181-009

Parameters:	Analysis Method	DF	MDL	PQL	Results	Unit
4,4'-DDE	SW8081A	10	5.1	20	19	ug/Kg
Dieldrin	SW8081A	10	5.8	20	20	ug/Kg
Toxaphene	SW8081A	10	82	1000	8000	ug/Kg
Arsenic	SW6010B	1	0.25	1.7	2.9	mg/Kg
Barium	SW6010B	1	0.07	5.0	180	mg/Kg
Chromium	SW6010B	1	0.0500	5.0	23	mg/Kg
Cobalt	SW6010B	1	0.055	5.0	8.0	mg/Kg
Copper	SW6010B	1	0.650	5.0	19	mg/Kg
Lead	SW6010B	1	0.14	1.0	43	mg/Kg
Nickel	SW6010B	1	0.0500	5.0	30	mg/Kg
Vanadium	SW6010B	1	0.18	5.0	26	mg/Kg
Zinc	SW6010B	1	0.25	5.0	140	mg/Kg
TPH as Diesel (SG)	SW8015B(M)	2	1.3	4.0	7.1	mg/Kg
TPH as Motor Oil (SG)	SW8015B(M)	2	2.0	21	110	mg/Kg

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Shawn Munger
Engeo (San Ramon)

Date Received: 08/29/14
Date Reported: 09/04/14

Client Sample ID:	B1	**Lab Sample ID:**	1408181-001A
Project Name/Location:	Jordan Ranch	**Sample Matrix:**	Soil
Project Number:	7828.000.001		
Date/Time Sampled:	08/29/14 / 10:20		
Tag Number:	Jordan Ranch		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	8/29/14	09/02/14	1	0.61	2.0	ND		ug/Kg	422223	12599
gamma-BHC	SW8081A	8/29/14	09/02/14	1	0.61	2.0	ND		ug/Kg	422223	12599
beta-BHC	SW8081A	8/29/14	09/02/14	1	0.56	2.0	ND		ug/Kg	422223	12599
delta-BHC	SW8081A	8/29/14	09/02/14	1	0.40	2.0	ND		ug/Kg	422223	12599
Heptachlor	SW8081A	8/29/14	09/02/14	1	0.79	2.0	ND		ug/Kg	422223	12599
Aldrin	SW8081A	8/29/14	09/02/14	1	0.81	2.0	ND		ug/Kg	422223	12599
Heptachlor epoxide	SW8081A	8/29/14	09/02/14	1	0.36	2.0	ND		ug/Kg	422223	12599
gamma-Chlordane	SW8081A	8/29/14	09/02/14	1	0.79	2.0	ND		ug/Kg	422223	12599
alpha-Chlordane	SW8081A	8/29/14	09/02/14	1	0.94	2.0	ND		ug/Kg	422223	12599
Endosulfan I	SW8081A	8/29/14	09/02/14	1	0.64	2.0	ND		ug/Kg	422223	12599
4,4'-DDE	SW8081A	8/29/14	09/02/14	1	0.51	2.0	ND		ug/Kg	422223	12599
Dieldrin	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Endrin	SW8081A	8/29/14	09/02/14	1	0.86	2.0	ND		ug/Kg	422223	12599
4,4'-DDD	SW8081A	8/29/14	09/02/14	1	0.76	2.0	ND		ug/Kg	422223	12599
Endosulfan II	SW8081A	8/29/14	09/02/14	1	0.82	2.0	ND		ug/Kg	422223	12599
4,4'-DDT	SW8081A	8/29/14	09/02/14	1	0.67	2.0	ND		ug/Kg	422223	12599
Endrin aldehyde	SW8081A	8/29/14	09/02/14	1	0.46	2.0	ND		ug/Kg	422223	12599
Endosulfan sulfate	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Methoxychlor	SW8081A	8/29/14	09/02/14	1	0.61	5.0	ND		ug/Kg	422223	12599
Endrin Ketone	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Chlordane	SW8081A	8/29/14	09/02/14	1	10	20	ND		ug/Kg	422223	12599
Toxaphene	SW8081A	8/29/14	09/02/14	1	8.2	100	ND		ug/Kg	422223	12599
TCMX (S)	SW8081A	8/29/14	09/02/14	1	52.5	139	88.0		%	422223	12599
DCBP (S)	SW8081A	8/29/14	09/02/14	1	50.2	139	66.1		%	422223	12599

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/29/14	09/02/14	1	0.66	2.0	ND		mg/Kg	422211	12597
TPH as Motor Oil (SG)	SW8015B(M)	8/29/14	09/02/14	1	1.0	10	ND		mg/Kg	422211	12597
Pentacosane (S)	SW8015B(M)	8/29/14	09/02/14	1	49.9	144	138		%	422211	12597

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Shawn Munger
Engeo (San Ramon)

Date Received: 08/29/14
Date Reported: 09/04/14

Client Sample ID:	B2	**Lab Sample ID:**	1408181-002A
Project Name/Location:	Jordan Ranch	**Sample Matrix:**	Soil
Project Number:	7828.000.001		
Date/Time Sampled:	08/29/14 / 10:30		
Tag Number:	Jordan Ranch		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	8/29/14	09/02/14	1	0.61	2.0	ND		ug/Kg	422223	12599
gamma-BHC	SW8081A	8/29/14	09/02/14	1	0.61	2.0	ND		ug/Kg	422223	12599
beta-BHC	SW8081A	8/29/14	09/02/14	1	0.56	2.0	ND		ug/Kg	422223	12599
delta-BHC	SW8081A	8/29/14	09/02/14	1	0.40	2.0	ND		ug/Kg	422223	12599
Heptachlor	SW8081A	8/29/14	09/02/14	1	0.79	2.0	ND		ug/Kg	422223	12599
Aldrin	SW8081A	8/29/14	09/02/14	1	0.81	2.0	ND		ug/Kg	422223	12599
Heptachlor epoxide	SW8081A	8/29/14	09/02/14	1	0.36	2.0	ND		ug/Kg	422223	12599
gamma-Chlordane	SW8081A	8/29/14	09/02/14	1	0.79	2.0	ND		ug/Kg	422223	12599
alpha-Chlordane	SW8081A	8/29/14	09/02/14	1	0.94	2.0	ND		ug/Kg	422223	12599
Endosulfan I	SW8081A	8/29/14	09/02/14	1	0.64	2.0	ND		ug/Kg	422223	12599
4,4'-DDE	SW8081A	8/29/14	09/02/14	1	0.51	2.0	ND		ug/Kg	422223	12599
Dieldrin	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Endrin	SW8081A	8/29/14	09/02/14	1	0.86	2.0	ND		ug/Kg	422223	12599
4,4'-DDD	SW8081A	8/29/14	09/02/14	1	0.76	2.0	ND		ug/Kg	422223	12599
Endosulfan II	SW8081A	8/29/14	09/02/14	1	0.82	2.0	ND		ug/Kg	422223	12599
4,4'-DDT	SW8081A	8/29/14	09/02/14	1	0.67	2.0	ND		ug/Kg	422223	12599
Endrin aldehyde	SW8081A	8/29/14	09/02/14	1	0.46	2.0	ND		ug/Kg	422223	12599
Endosulfan sulfate	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Methoxychlor	SW8081A	8/29/14	09/02/14	1	0.61	5.0	ND		ug/Kg	422223	12599
Endrin Ketone	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Chlordane	SW8081A	8/29/14	09/02/14	1	10	20	ND		ug/Kg	422223	12599
Toxaphene	SW8081A	8/29/14	09/02/14	1	8.2	100	ND		ug/Kg	422223	12599
TCMX (S)	SW8081A	8/29/14	09/02/14	1	52.5	139	86.4		%	422223	12599
DCBP (S)	SW8081A	8/29/14	09/02/14	1	50.2	139	63.6		%	422223	12599

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/29/14	09/02/14	1	0.66	2.0	ND		mg/Kg	422211	12597
TPH as Motor Oil (SG)	SW8015B(M)	8/29/14	09/02/14	1	1.0	10	ND		mg/Kg	422211	12597
Pentacosane (S)	SW8015B(M)	8/29/14	09/02/14	1	49.9	144	111		%	422211	12597

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Shawn Munger
Engeo (San Ramon)

Date Received: 08/29/14
Date Reported: 09/04/14

Client Sample ID:	B3	**Lab Sample ID:**	1408181-003A
Project Name/Location:	Jordan Ranch	**Sample Matrix:**	Soil
Project Number:	7828.000.001		
Date/Time Sampled:	08/29/14 / 10:35		
Tag Number:	Jordan Ranch		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	8/29/14	09/02/14	1	0.61	2.0	ND		ug/Kg	422223	12599
gamma-BHC	SW8081A	8/29/14	09/02/14	1	0.61	2.0	ND		ug/Kg	422223	12599
beta-BHC	SW8081A	8/29/14	09/02/14	1	0.56	2.0	ND		ug/Kg	422223	12599
delta-BHC	SW8081A	8/29/14	09/02/14	1	0.40	2.0	ND		ug/Kg	422223	12599
Heptachlor	SW8081A	8/29/14	09/02/14	1	0.79	2.0	ND		ug/Kg	422223	12599
Aldrin	SW8081A	8/29/14	09/02/14	1	0.81	2.0	ND		ug/Kg	422223	12599
Heptachlor epoxide	SW8081A	8/29/14	09/02/14	1	0.36	2.0	ND		ug/Kg	422223	12599
gamma-Chlordane	SW8081A	8/29/14	09/02/14	1	0.79	2.0	ND		ug/Kg	422223	12599
alpha-Chlordane	SW8081A	8/29/14	09/02/14	1	0.94	2.0	ND		ug/Kg	422223	12599
Endosulfan I	SW8081A	8/29/14	09/02/14	1	0.64	2.0	ND		ug/Kg	422223	12599
4,4'-DDE	SW8081A	8/29/14	09/02/14	1	0.51	2.0	ND		ug/Kg	422223	12599
Dieldrin	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Endrin	SW8081A	8/29/14	09/02/14	1	0.86	2.0	ND		ug/Kg	422223	12599
4,4'-DDD	SW8081A	8/29/14	09/02/14	1	0.76	2.0	ND		ug/Kg	422223	12599
Endosulfan II	SW8081A	8/29/14	09/02/14	1	0.82	2.0	ND		ug/Kg	422223	12599
4,4'-DDT	SW8081A	8/29/14	09/02/14	1	0.67	2.0	ND		ug/Kg	422223	12599
Endrin aldehyde	SW8081A	8/29/14	09/02/14	1	0.46	2.0	ND		ug/Kg	422223	12599
Endosulfan sulfate	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Methoxychlor	SW8081A	8/29/14	09/02/14	1	0.61	5.0	ND		ug/Kg	422223	12599
Endrin Ketone	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Chlordane	SW8081A	8/29/14	09/02/14	1	10	20	ND		ug/Kg	422223	12599
Toxaphene	SW8081A	8/29/14	09/02/14	1	8.2	100	ND		ug/Kg	422223	12599
TCMX (S)	SW8081A	8/29/14	09/02/14	1	52.5	139	87.7		%	422223	12599
DCBP (S)	SW8081A	8/29/14	09/02/14	1	50.2	139	75.1		%	422223	12599

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/29/14	09/02/14	1	0.66	2.0	ND		mg/Kg	422211	12597
TPH as Motor Oil (SG)	SW8015B(M)	8/29/14	09/02/14	1	1.0	10	ND		mg/Kg	422211	12597
Pentacosane (S)	SW8015B(M)	8/29/14	09/02/14	1	49.9	144	125		%	422211	12597

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Shawn Munger
Engeo (San Ramon)

Date Received: 08/29/14
Date Reported: 09/04/14

Client Sample ID:	B4	**Lab Sample ID:**	1408181-004A
Project Name/Location:	Jordan Ranch	**Sample Matrix:**	Soil
Project Number:	7828.000.001		
Date/Time Sampled:	08/29/14 / 10:40		
Tag Number:	Jordan Ranch		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
alpha-BHC	SW8081A	8/29/14	09/02/14	1	0.61	2.0	ND		ug/Kg	422223	12599
gamma-BHC	SW8081A	8/29/14	09/02/14	1	0.61	2.0	ND		ug/Kg	422223	12599
beta-BHC	SW8081A	8/29/14	09/02/14	1	0.56	2.0	ND		ug/Kg	422223	12599
delta-BHC	SW8081A	8/29/14	09/02/14	1	0.40	2.0	ND		ug/Kg	422223	12599
Heptachlor	SW8081A	8/29/14	09/02/14	1	0.79	2.0	ND		ug/Kg	422223	12599
Aldrin	SW8081A	8/29/14	09/02/14	1	0.81	2.0	ND		ug/Kg	422223	12599
Heptachlor epoxide	SW8081A	8/29/14	09/02/14	1	0.36	2.0	ND		ug/Kg	422223	12599
gamma-Chlordane	SW8081A	8/29/14	09/02/14	1	0.79	2.0	ND		ug/Kg	422223	12599
alpha-Chlordane	SW8081A	8/29/14	09/02/14	1	0.94	2.0	ND		ug/Kg	422223	12599
Endosulfan I	SW8081A	8/29/14	09/02/14	1	0.64	2.0	ND		ug/Kg	422223	12599
4,4'-DDE	SW8081A	8/29/14	09/02/14	1	0.51	2.0	ND		ug/Kg	422223	12599
Dieldrin	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Endrin	SW8081A	8/29/14	09/02/14	1	0.86	2.0	ND		ug/Kg	422223	12599
4,4'-DDD	SW8081A	8/29/14	09/02/14	1	0.76	2.0	ND		ug/Kg	422223	12599
Endosulfan II	SW8081A	8/29/14	09/02/14	1	0.82	2.0	ND		ug/Kg	422223	12599
4,4'-DDT	SW8081A	8/29/14	09/02/14	1	0.67	2.0	ND		ug/Kg	422223	12599
Endrin aldehyde	SW8081A	8/29/14	09/02/14	1	0.46	2.0	ND		ug/Kg	422223	12599
Endosulfan sulfate	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Methoxychlor	SW8081A	8/29/14	09/02/14	1	0.61	5.0	ND		ug/Kg	422223	12599
Endrin Ketone	SW8081A	8/29/14	09/02/14	1	0.58	2.0	ND		ug/Kg	422223	12599
Chlordane	SW8081A	8/29/14	09/02/14	1	10	20	ND		ug/Kg	422223	12599
Toxaphene	SW8081A	8/29/14	09/02/14	1	8.2	100	ND		ug/Kg	422223	12599
TCMX (S)	SW8081A	8/29/14	09/02/14	1	52.5	139	79.5		%	422223	12599
DCBP (S)	SW8081A	8/29/14	09/02/14	1	50.2	139	61.5		%	422223	12599

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/29/14	09/02/14	1	0.66	2.0	ND		mg/Kg	422211	12597
TPH as Motor Oil (SG)	SW8015B(M)	8/29/14	09/02/14	1	1.0	10	ND		mg/Kg	422211	12597
Pentacosane (S)	SW8015B(M)	8/29/14	09/02/14	1	49.9	144	112		%	422211	12597

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Shawn Munger
Engeo (San Ramon)

Date Received: 08/29/14
Date Reported: 09/04/14

Client Sample ID:	Comp SP (1-4)	**Lab Sample ID:**	1408181-009A
Project Name/Location:	Jordan Ranch	**Sample Matrix:**	Soil
Project Number:	7828.000.001		
Date/Time Sampled:	08/29/14 /		
Tag Number:	Jordan Ranch		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Antimony	SW6010B	9/2/14	09/02/14	1	0.20	5.0	ND		mg/Kg	422210	12609
Arsenic	SW6010B	9/2/14	09/02/14	1	0.25	1.7	2.9		mg/Kg	422210	12609
Barium	SW6010B	9/2/14	09/02/14	1	0.07	5.0	180		mg/Kg	422210	12609
Beryllium	SW6010B	9/2/14	09/02/14	1	0.0800	2.0	ND		mg/Kg	422210	12609
Cadmium	SW6010B	9/2/14	09/02/14	1	0.0550	1.0	ND		mg/Kg	422210	12609
Chromium	SW6010B	9/2/14	09/02/14	1	0.0500	5.0	23		mg/Kg	422210	12609
Cobalt	SW6010B	9/2/14	09/02/14	1	0.055	5.0	8.0		mg/Kg	422210	12609
Copper	SW6010B	9/2/14	09/02/14	1	0.650	5.0	19		mg/Kg	422210	12609
Lead	SW6010B	9/2/14	09/02/14	1	0.14	1.0	43		mg/Kg	422210	12609
Molybdenum	SW6010B	9/2/14	09/02/14	1	0.120	5.0	ND		mg/Kg	422210	12609
Nickel	SW6010B	9/2/14	09/02/14	1	0.0500	5.0	30		mg/Kg	422210	12609
Selenium	SW6010B	9/2/14	09/02/14	1	0.42	5.0	ND		mg/Kg	422210	12609
Silver	SW6010B	9/2/14	09/02/14	1	0.37	1.0	ND		mg/Kg	422210	12609
Thallium	SW6010B	9/2/14	09/02/14	1	0.49	7.5	ND		mg/Kg	422210	12609
Vanadium	SW6010B	9/2/14	09/02/14	1	0.18	5.0	26		mg/Kg	422210	12609
Zinc	SW6010B	9/2/14	09/02/14	1	0.25	5.0	140		mg/Kg	422210	12609

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Mercury	SW7471A	9/2/14	09/03/14	1	0.2	0.50	ND		mg/Kg	422214	12611

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Shawn Munger
Engeo (San Ramon)

Date Received: 08/29/14
Date Reported: 09/04/14

Client Sample ID:	Comp SP (1-4)	**Lab Sample ID:**	1408181-009A
Project Name/Location:	Jordan Ranch	**Sample Matrix:**	Soil
Project Number:	7828.000.001		
Date/Time Sampled:	08/29/14 /		
Tag Number:	Jordan Ranch		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
The results shown below are reported using their MDL.											
alpha-BHC	SW8081A	8/29/14	09/03/14	10	6.1	20	ND		ug/Kg	422240	12599
gamma-BHC	SW8081A	8/29/14	09/03/14	10	6.1	20	ND		ug/Kg	422240	12599
beta-BHC	SW8081A	8/29/14	09/03/14	10	5.6	20	ND		ug/Kg	422240	12599
delta-BHC	SW8081A	8/29/14	09/03/14	10	4.0	20	ND		ug/Kg	422240	12599
Heptachlor	SW8081A	8/29/14	09/03/14	10	7.9	20	ND		ug/Kg	422240	12599
Aldrin	SW8081A	8/29/14	09/03/14	10	8.1	20	ND		ug/Kg	422240	12599
Heptachlor epoxide	SW8081A	8/29/14	09/03/14	10	3.6	20	ND		ug/Kg	422240	12599
gamma-Chlordane	SW8081A	8/29/14	09/03/14	10	7.9	20	ND		ug/Kg	422240	12599
alpha-Chlordane	SW8081A	8/29/14	09/03/14	10	9.4	20	ND		ug/Kg	422240	12599
Endosulfan I	SW8081A	8/29/14	09/03/14	10	6.4	20	ND		ug/Kg	422240	12599
4,4'-DDE	SW8081A	8/29/14	09/03/14	10	5.1	20	19	J	ug/Kg	422240	12599
Dieldrin	SW8081A	8/29/14	09/03/14	10	5.8	20	20		ug/Kg	422240	12599
Endrin	SW8081A	8/29/14	09/03/14	10	8.6	20	ND		ug/Kg	422240	12599
4,4'-DDD	SW8081A	8/29/14	09/03/14	10	7.6	20	ND		ug/Kg	422240	12599
Endosulfan II	SW8081A	8/29/14	09/03/14	10	8.2	20	ND		ug/Kg	422240	12599
4,4'-DDT	SW8081A	8/29/14	09/03/14	10	6.7	20	ND		ug/Kg	422240	12599
Endrin aldehyde	SW8081A	8/29/14	09/03/14	10	4.6	20	ND		ug/Kg	422240	12599
Endosulfan sulfate	SW8081A	8/29/14	09/03/14	10	5.8	20	ND		ug/Kg	422240	12599
Methoxychlor	SW8081A	8/29/14	09/03/14	10	6.1	50	ND		ug/Kg	422240	12599
Endrin Ketone	SW8081A	8/29/14	09/03/14	10	5.8	20	ND		ug/Kg	422240	12599
Chlordane	SW8081A	8/29/14	09/03/14	10	100	200	ND		ug/Kg	422240	12599
Toxaphene	SW8081A	8/29/14	09/03/14	10	82	1000	8000		ug/Kg	422240	12599
TCMX (S)	SW8081A	8/29/14	09/03/14	10	52.5	139	92.1		%	422240	12599
DCBP (S)	SW8081A	8/29/14	09/03/14	10	50.2	139	69.9		%	422240	12599

NOTE: Reporting limits increased due to necessary dilution of the sample (potential matrix interference from the nature of the sample matrix - viscous dark color extract)

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Shawn Munger
Engeo (San Ramon)

Date Received: 08/29/14
Date Reported: 09/04/14

Client Sample ID:	Comp SP (1-4)	**Lab Sample ID:**	1408181-009A
Project Name/Location:	Jordan Ranch	**Sample Matrix:**	Soil
Project Number:	7828.000.001		
Date/Time Sampled:	08/29/14 /		
Tag Number:	Jordan Ranch		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Dichlorodifluoromethane	SW8260B	NA	09/02/14	1	4.4	10	ND		ug/Kg	422230	NA
Chloromethane	SW8260B	NA	09/02/14	1	4.6	10	ND		ug/Kg	422230	NA
Vinyl Chloride	SW8260B	NA	09/02/14	1	2.6	10	ND		ug/Kg	422230	NA
Bromomethane	SW8260B	NA	09/02/14	1	4.7	10	ND		ug/Kg	422230	NA
Trichlorofluoromethane	SW8260B	NA	09/02/14	1	2.9	10	ND		ug/Kg	422230	NA
1,1-Dichloroethene	SW8260B	NA	09/02/14	1	1.5	10	ND		ug/Kg	422230	NA
Freon 113	SW8260B	NA	09/02/14	1	3.7	10	ND		ug/Kg	422230	NA
Methylene Chloride	SW8260B	NA	09/02/14	1	2.0	50	ND		ug/Kg	422230	NA
trans-1,2-Dichloroethene	SW8260B	NA	09/02/14	1	1.1	10	ND		ug/Kg	422230	NA
MTBE	SW8260B	NA	09/02/14	1	2.6	10	ND		ug/Kg	422230	NA
tert-Butanol	SW8260B	NA	09/02/14	1	21	50	ND		ug/Kg	422230	NA
Diisopropyl ether (DIPE)	SW8260B	NA	09/02/14	1	2.2	10	ND		ug/Kg	422230	NA
1,1-Dichloroethane	SW8260B	NA	09/02/14	1	1.3	10	ND		ug/Kg	422230	NA
ETBE	SW8260B	NA	09/02/14	1	2.4	10	ND		ug/Kg	422230	NA
cis-1,2-Dichloroethene	SW8260B	NA	09/02/14	1	1.8	10	ND		ug/Kg	422230	NA
2,2-Dichloropropane	SW8260B	NA	09/02/14	1	1.2	10	ND		ug/Kg	422230	NA
Bromochloromethane	SW8260B	NA	09/02/14	1	2.3	10	ND		ug/Kg	422230	NA
Chloroform	SW8260B	NA	09/02/14	1	1.2	10	ND		ug/Kg	422230	NA
Carbon Tetrachloride	SW8260B	NA	09/02/14	1	1.6	10	ND		ug/Kg	422230	NA
1,1,1-Trichloroethane	SW8260B	NA	09/02/14	1	1.2	10	ND		ug/Kg	422230	NA
1,1-Dichloropropene	SW8260B	NA	09/02/14	1	1.4	10	ND		ug/Kg	422230	NA
Benzene	SW8260B	NA	09/02/14	1	1.5	10	ND		ug/Kg	422230	NA
TAME	SW8260B	NA	09/02/14	1	2.1	10	ND		ug/Kg	422230	NA
1,2-Dichloroethane	SW8260B	NA	09/02/14	1	1.9	10	ND		ug/Kg	422230	NA
Trichloroethylene	SW8260B	NA	09/02/14	1	3.9	10	ND		ug/Kg	422230	NA
Dibromomethane	SW8260B	NA	09/02/14	1	2.2	10	ND		ug/Kg	422230	NA
1,2-Dichloropropane	SW8260B	NA	09/02/14	1	1.3	10	ND		ug/Kg	422230	NA
Bromodichloromethane	SW8260B	NA	09/02/14	1	1.1	10	ND		ug/Kg	422230	NA
cis-1,3-Dichloropropene	SW8260B	NA	09/02/14	1	1.4	10	ND		ug/Kg	422230	NA
Toluene	SW8260B	NA	09/02/14	1	0.98	10	ND		ug/Kg	422230	NA
Tetrachloroethylene	SW8260B	NA	09/02/14	1	1.8	10	ND		ug/Kg	422230	NA
trans-1,3-Dichloropropene	SW8260B	NA	09/02/14	1	1.2	10	ND		ug/Kg	422230	NA
1,1,2-Trichloroethane	SW8260B	NA	09/02/14	1	1.8	10	ND		ug/Kg	422230	NA
Dibromochloromethane	SW8260B	NA	09/02/14	1	1.1	10	ND		ug/Kg	422230	NA
1,3-Dichloropropane	SW8260B	NA	09/02/14	1	2.1	10	ND		ug/Kg	422230	NA
1,2-Dibromoethane	SW8260B	NA	09/02/14	1	1.7	10	ND		ug/Kg	422230	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Shawn Munger
Engeo (San Ramon)

Date Received: 08/29/14
Date Reported: 09/04/14

Client Sample ID:	Comp SP (1-4)	**Lab Sample ID:**	1408181-009A
Project Name/Location:	Jordan Ranch	**Sample Matrix:**	Soil
Project Number:	7828.000.001		
Date/Time Sampled:	08/29/14 /		
Tag Number:	Jordan Ranch		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
Ethyl Benzene	SW8260B	NA	09/02/14	1	0.86	10	ND		ug/Kg	422230	NA
Chlorobenzene	SW8260B	NA	09/02/14	1	4.2	10	ND		ug/Kg	422230	NA
1,1,1,2-Tetrachloroethane	SW8260B	NA	09/02/14	1	0.86	10	ND		ug/Kg	422230	NA
m,p-Xylene	SW8260B	NA	09/02/14	1	1.9	10	ND		ug/Kg	422230	NA
o-Xylene	SW8260B	NA	09/02/14	1	0.66	5.0	ND		ug/Kg	422230	NA
Styrene	SW8260B	NA	09/02/14	1	0.77	10	ND		ug/Kg	422230	NA
Bromoform	SW8260B	NA	09/02/14	1	1.9	10	ND		ug/Kg	422230	NA
Isopropyl Benzene	SW8260B	NA	09/02/14	1	1.2	10	ND		ug/Kg	422230	NA
n-Propylbenzene	SW8260B	NA	09/02/14	1	1.4	10	ND		ug/Kg	422230	NA
Bromobenzene	SW8260B	NA	09/02/14	1	1.2	10	ND		ug/Kg	422230	NA
1,1,2,2-Tetrachloroethane	SW8260B	NA	09/02/14	1	3.0	10	ND		ug/Kg	422230	NA
1,3,5-Trimethylbenzene	SW8260B	NA	09/02/14	1	1.1	10	ND		ug/Kg	422230	NA
1,2,3-Trichloropropane	SW8260B	NA	09/02/14	1	3.3	10	ND		ug/Kg	422230	NA
4-Chlorotoluene	SW8260B	NA	09/02/14	1	1.6	10	ND		ug/Kg	422230	NA
2-Chlorotoluene	SW8260B	NA	09/02/14	1	1.6	10	ND		ug/Kg	422230	NA
tert-Butylbenzene	SW8260B	NA	09/02/14	1	1.4	10	ND		ug/Kg	422230	NA
1,2,4-Trimethylbenzene	SW8260B	NA	09/02/14	1	1.1	10	ND		ug/Kg	422230	NA
sec-Butyl Benzene	SW8260B	NA	09/02/14	1	1.6	10	ND		ug/Kg	422230	NA
p-Isopropyltoluene	SW8260B	NA	09/02/14	1	1.5	10	ND		ug/Kg	422230	NA
1,3-Dichlorobenzene	SW8260B	NA	09/02/14	1	1.8	10	ND		ug/Kg	422230	NA
1,4-Dichlorobenzene	SW8260B	NA	09/02/14	1	1.5	10	ND		ug/Kg	422230	NA
n-Butylbenzene	SW8260B	NA	09/02/14	1	2.2	10	ND		ug/Kg	422230	NA
1,2-Dichlorobenzene	SW8260B	NA	09/02/14	1	1.3	10	ND		ug/Kg	422230	NA
1,2-Dibromo-3-Chloropropane	SW8260B	NA	09/02/14	1	4.2	10	ND		ug/Kg	422230	NA
Hexachlorobutadiene	SW8260B	NA	09/02/14	1	2.6	10	ND		ug/Kg	422230	NA
1,2,4-Trichlorobenzene	SW8260B	NA	09/02/14	1	2.1	10	ND		ug/Kg	422230	NA
Naphthalene	SW8260B	NA	09/02/14	1	2.8	10	ND		ug/Kg	422230	NA
1,2,3-Trichlorobenzene	SW8260B	NA	09/02/14	1	2.9	10	ND		ug/Kg	422230	NA
(S) Dibromofluoromethane	SW8260B	NA	09/02/14	1	59.8	148	91.4		%	422230	NA
(S) Toluene-d8	SW8260B	NA	09/02/14	1	55.2	133	80.2		%	422230	NA
(S) 4-Bromofluorobenzene	SW8260B	NA	09/02/14	1	55.8	141	72.9		%	422230	NA

Torrent LABORATORY, INC.

SAMPLE RESULTS

Report prepared for: Shawn Munger
Engeo (San Ramon)

Date Received: 08/29/14
Date Reported: 09/04/14

Client Sample ID:	Comp SP (1-4)	**Lab Sample ID:**	1408181-009A
Project Name/Location:	Jordan Ranch	**Sample Matrix:**	Soil
Project Number:	7828.000.001		
Date/Time Sampled:	08/29/14 /		
Tag Number:	Jordan Ranch		

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH(Gasoline)	8260TPH	9/2/14	09/02/14	1	30	100	ND		ug/Kg	422230	12620
(S) 4-Bromofluorobenzene	8260TPH	9/2/14	09/02/14	1	43.9	127	54.9		%	422230	12620

Parameters:	Analysis Method	Prep Date	Date Analyzed	DF	MDL	PQL	Results	Lab Qualifier	Unit	Analytical Batch	Prep Batch
TPH as Diesel (SG)	SW8015B(M)	8/29/14	09/02/14	2	1.3	4.0	7.1	x	mg/Kg	422211	12597
TPH as Motor Oil (SG)	SW8015B(M)	8/29/14	09/02/14	2	2.0	21	110		mg/Kg	422211	12597
Pentacosane (S)	SW8015B(M)	8/29/14	09/02/14	2	49.9	144	122		%	422211	12597

NOTE: x- Diesel result due to over-lapping of oil range organics within diesel quantified range.

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1408181	**Prep Method:**	3546_TPHSG	**Prep Date:**	08/29/14	**Prep Batch:**	12597
Matrix:	Soil	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	08/29/14	**Analytical Batch:**	422198
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH as Diesel (SG)	0.66	2.0	ND	
TPH as Motor Oil (SG)	1.0	10	1.3	
Pentacosane (S)			131	

Work Order:	1408181	**Prep Method:**	3546_OCP	**Prep Date:**	08/29/14	**Prep Batch:**	12599
Matrix:	Soil	**Analytical Method:**	SW8081A	**Analyzed Date:**	08/29/14	**Analytical Batch:**	422199
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.61	2.0	ND	
gamma-BHC	0.61	2.0	ND	
beta-BHC	0.56	2.0	ND	
delta-BHC	0.40	2.0	ND	
Heptachlor	0.79	2.0	ND	
Aldrin	0.81	2.0	ND	
Heptachlor epoxide	0.36	2.0	ND	
gamma-Chlordane	0.79	2.0	ND	
alpha-Chlordane	0.94	2.0	ND	
Endosulfan I	0.64	2.0	ND	
4,4'-DDE	0.51	2.0	ND	
Dieldrin	0.58	2.0	ND	
Endrin	0.86	2.0	ND	
4,4'-DDD	0.76	2.0	ND	
Endosulfan II	0.82	2.0	ND	
4,4'-DDT	0.67	2.0	ND	
Endrin aldehyde	0.46	2.0	ND	
Endosulfan sulfate	0.58	2.0	ND	
Methoxychlor	0.61	5.0	ND	
Endrin Ketone	0.58	2.0	ND	
Chlordane	10	20	ND	
Toxaphene	8.2	100	ND	
TCMX (S)			85.4	
DCBP (S)			73.6	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1408181	**Prep Method:**	3050	**Prep Date:**	09/02/14	**Prep Batch:**	12609
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	09/02/14	**Analytical Batch:**	422210
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Antimony	0.20	5.0	ND	
Arsenic	0.25	1.7	0.27	
Barium	0.07	5.0	0.66	
Beryllium	0.0800	2.0	ND	
Cadmium	0.055	1.0	ND	
Chromium	0.050	5.0	0.14	
Cobalt	0.055	5.0	ND	
Copper	0.65	5.0	ND	
Lead	0.14	1.0	0.24	
Molybdenum	0.12	5.0	ND	
Nickel	0.050	5.0	0.085	
Selenium	0.42	5.0	ND	
Silver	0.37	1.0	ND	
Thallium	0.49	5.0	ND	
Vanadium	0.18	5.0	ND	
Zinc	0.25	5.0	ND	

Work Order:	1408181	**Prep Method:**	7471	**Prep Date:**	09/02/14	**Prep Batch:**	12611
Matrix:	Soil	**Analytical Method:**	SW7471A	**Analyzed Date:**	09/03/14	**Analytical Batch:**	422214
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
Mercury	0.2	0.50	ND	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1408181	**Prep Method:**	3546_OCP	**Prep Date:**	09/02/14	**Prep Batch:**	12613
Matrix:	Soil	**Analytical Method:**	SW8081A	**Analyzed Date:**	09/02/14	**Analytical Batch:**	422223
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
alpha-BHC	0.61	2.0	ND	
gamma-BHC	0.61	2.0	ND	
beta-BHC	0.56	2.0	ND	
delta-BHC	0.40	2.0	ND	
Heptachlor	0.79	2.0	ND	
Aldrin	0.81	2.0	ND	
Heptachlor epoxide	0.36	2.0	ND	
gamma-Chlordane	0.79	2.0	ND	
alpha-Chlordane	0.94	2.0	ND	
Endosulfan I	0.64	2.0	ND	
4,4'-DDE	0.51	2.0	ND	
Dieldrin	0.58	2.0	ND	
Endrin	0.86	2.0	ND	
4,4'-DDD	0.76	2.0	ND	
Endosulfan II	0.82	2.0	ND	
4,4'-DDT	0.67	2.0	ND	
Endrin aldehyde	0.46	2.0	ND	
Endosulfan sulfate	0.58	2.0	ND	
Methoxychlor	0.61	5.0	ND	
Endrin Ketone	0.58	2.0	ND	
Chlordane	10	20	ND	
Toxaphene	8.2	100	ND	
TCMX (S)			96.5	
DCBP (S)			98.0	

Work Order:	1408181	**Prep Method:**	5035	**Prep Date:**	09/02/14	**Prep Batch:**	12620
Matrix:	Soil	**Analytical Method:**	8260TPH	**Analyzed Date:**	09/02/14	**Analytical Batch:**	422230
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier
TPH(Gasoline)	30	100	69	
(S) 4-Bromofluorobenzene			108	

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1408181	**Prep Method:**	3545_OCP	**Prep Date:**	09/03/14	**Prep Batch:**	12624
Matrix:	Soil	**Analytical Method:**	TO10A	**Analyzed Date:**	09/03/14	**Analytical Batch:**	422240
Units:	ug						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
alpha-BHC	0.01903	0.100	ND		
gamma-BHC	0.02427	0.100	ND		
beta-BHC	0.03179	0.100	ND		
delta-BHC	0.02694	0.100	ND		
Heptachlor	0.02382	0.100	ND		
Aldrin	0.02354	0.100	ND		
Heptachlor epoxide	0.02601	0.100	ND		
gamma-Chlordane	0.02564	0.100	ND		
alpha-Chlordane	0.02702	0.100	ND		
Endosulfan I	0.03231	0.100	ND		
4,4'-DDE	0.03220	0.100	ND		
Dieldrin	0.02799	0.100	ND		
Endrin	0.03144	0.100	ND		
4,4'-DDD	0.03189	0.100	ND		
Endosulfan II	0.03210	0.100	ND		
4,4'-DDT	0.03174	0.100	ND		
Endrin aldehyde	0.03444	0.100	ND		
Endosulfan sulfate	0.03108	0.100	ND		
Methoxychlor	0.04529	0.100	ND		
Endrin Ketone	0.02892	0.100	ND		
TCMX (S)			72.1		
DCBP (S)			80.2		

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1408181	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Soil	**Analytical Method:**	SW8260B	**Analyzed Date:**	09/02/14	**Analytical Batch:**	422230
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Dichlorodifluoromethane	4.4	10	ND		
Chloromethane	4.6	10	ND		
Vinyl Chloride	2.6	10	ND		
Bromomethane	4.7	10	ND		
Trichlorofluoromethane	2.9	10	ND		
1,1-Dichloroethene	1.5	10	ND		
Freon 113	3.7	10	ND		
Methylene Chloride	2.0	50	ND		
trans-1,2-Dichloroethene	1.1	10	ND		
MTBE	2.6	10	ND		
tert-Butanol	21	50	ND		
Diisopropyl ether (DIPE)	2.2	10	ND		
1,1-Dichloroethane	1.3	10	ND		
ETBE	2.4	10	ND		
cis-1,2-Dichloroethene	1.8	10	ND		
2,2-Dichloropropane	1.2	10	ND		
Bromochloromethane	2.3	10	ND		
Chloroform	1.2	10	ND		
Carbon Tetrachloride	1.6	10	ND		
1,1,1-Trichloroethane	1.2	10	ND		
1,1-Dichloropropene	1.4	10	ND		
Benzene	1.5	10	ND		
TAME	2.1	10	ND		
1,2-Dichloroethane	1.9	10	ND		
Trichloroethylene	3.9	10	ND		
Dibromomethane	2.2	10	ND		
1,2-Dichloropropane	1.3	10	ND		
Bromodichloromethane	1.1	10	ND		
cis-1,3-Dichloropropene	1.4	10	ND		
Toluene	0.98	10	ND		
Tetrachloroethylene	1.8	10	ND		
trans-1,3-Dichloropropene	1.2	10	ND		
1,1,2-Trichloroethane	1.8	10	ND		
Dibromochloromethane	1.1	10	ND		
1,3-Dichloropropane	2.1	10	ND		
1,2-Dibromoethane	1.7	10	ND		
Ethyl Benzene	0.86	10	ND		
Chlorobenzene	4.2	10	ND		
1,1,1,2-Tetrachloroethane	0.86	10	ND		
m,p-Xylene	1.9	10	ND		
o-Xylene	0.66	5.0	ND		

Torrent LABORATORY, INC.

MB Summary Report

Work Order:	1408181	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Soil	**Analytical Method:**	SW8260B	**Analyzed Date:**	09/02/14	**Analytical Batch:**	422230
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Lab Qualifier	
Styrene	0.77	10	ND		
Bromoform	1.9	10	ND		
Isopropyl Benzene	1.2	10	ND		
n-Propylbenzene	1.4	10	ND		
Bromobenzene	1.2	10	ND		
1,1,2,2-Tetrachloroethane	3.0	10	ND		
1,3,5-Trimethylbenzene	1.1	10	ND		
1,2,3-Trichloropropane	3.3	10	ND		
4-Chlorotoluene	1.6	10	ND		
2-Chlorotoluene	1.6	10	ND		
tert-Butylbenzene	1.4	10	ND		
1,2,4-Trimethylbenzene	1.1	10	ND		
sec-Butyl Benzene	1.6	10	ND		
p-Isopropyltoluene	1.5	10	ND		
1,3-Dichlorobenzene	1.8	10	ND		
1,4-Dichlorobenzene	1.5	10	ND		
n-Butylbenzene	2.2	10	ND		
1,2-Dichlorobenzene	1.3	10	ND		
1,2-Dibromo-3-Chloropropane	4.2	10	ND		
Hexachlorobutadiene	2.6	10	ND		
1,2,4-Trichlorobenzene	2.1	10	ND		
Naphthalene	2.8	10	ND		
1,2,3-Trichlorobenzene	2.9	10	ND		
Ethanol	5.0	20	ND	TIC	
(S) Dibromofluoromethane			81.9		
(S) Toluene-d8			77.7		
(S) 4-Bromofluorobenzene			76.8		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1408181	**Prep Method:**	3546_TPHSG	**Prep Date:**	08/29/14	**Prep Batch:**	12597
Matrix:	Soil	**Analytical Method:**	SW8015B(M)	**Analyzed Date:**	08/29/14	**Analytical Batch:**	422198
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH as Diesel (SG)	0.66	2.0	ND	25	73.8	74.2	0.506	50.8 - 111	30	
Pentacosane (S)			1.3	100	98.6	99.7		49.9 - 144		

Work Order:	1408181	**Prep Method:**	3546_OCP	**Prep Date:**	08/29/14	**Prep Batch:**	12599
Matrix:	Soil	**Analytical Method:**	SW8081A	**Analyzed Date:**	08/29/14	**Analytical Batch:**	422199
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.61	2.0	ND	25	88.3	94.0	6.21	56.9 - 120	30	
Heptachlor	0.79	2.0	ND	25	88.2	93.0	5.27	63.6 - 117	30	
Aldrin	0.81	2.0	ND	25	91.9	95.2	3.55	53 - 123	30	
Dieldrin	0.58	2.0	ND	25	93.7	97.5	3.90	44 - 130	30	
Endrin	0.86	2.0	ND	25	93.7	96.3	2.82	44.1 - 121	30	
4,4'-DDT	0.67	2.0	ND	25	89.3	93.4	4.49	52.8 - 134	30	
TCMX (S)			ND	350	84.5	96.4		52.5 - 139		
DCBP (S)			ND	350	92.6	99.9		50.2 - 139		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1408181	**Prep Method:**	3050	**Prep Date:**	09/02/14	**Prep Batch:**	12609
Matrix:	Soil	**Analytical Method:**	SW6010B	**Analyzed Date:**	09/02/14	**Analytical Batch:**	422210
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Antimony	0.20	5.0	ND	50	93.2	90.3	3.14	30.7 - 130	30	
Arsenic	0.25	1.7	0.27	50	92.8	90.3	2.79	71 - 121	30	
Barium	0.07	5.0	0.66	50	97.5	95.2	2.37	70.2 - 130	30	
Beryllium	0.0800	2.0	ND	50	100	94.6	0.443	73.3 - 115	30	
Cadmium	0.055	1.0	ND	50	89.9	87.9	2.26	68.7 - 110	30	
Chromium	0.050	5.0	0.14	50	95.9	93.4	2.61	76 - 116	30	
Cobalt	0.055	5.0	ND	50	95.0	92.7	2.42	57.4 - 122	30	
Copper	0.65	5.0	ND	50	98.4	94.5	4.03	74.8 - 119	30	
Lead	0.14	1.0	0.24	50	94.1	92.4	1.84	67.9 - 118	30	
Molybdenum	0.12	5.0	ND	50	97.4	95.2	2.28	62.9 - 123	30	
Nickel	0.050	5.0	0.085	50	92.9	91.2	1.90	61.5 - 122	30	
Selenium	0.42	5.0	ND	50	91.6	88.0	4.04	62 - 111	30	
Silver	0.37	1.0	ND	50	94.0	91.2	3.05	81.1 - 109	30	
Thallium	0.49	5.0	ND	50	91.0	87.6	3.76	39.2 - 125	30	
Vanadium	0.18	5.0	ND	50	97.8	94.4	3.59	65.8 - 122	30	
Zinc	0.25	5.0	ND	50	92.1	90.8	1.45	59.9 - 122	30	

Work Order:	1408181	**Prep Method:**	7471	**Prep Date:**	09/02/14	**Prep Batch:**	12611
Matrix:	Soil	**Analytical Method:**	SW7471A	**Analyzed Date:**	09/03/14	**Analytical Batch:**	422214
Units:	mg/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
Mercury	0.2	0.50	ND	1.25	111	112	0.779	80.5 - 133	30	

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1408181	**Prep Method:**	3546_OCP	**Prep Date:**	09/02/14	**Prep Batch:**	12613
Matrix:	Soil	**Analytical Method:**	SW8081A	**Analyzed Date:**	09/02/14	**Analytical Batch:**	422223
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.61	2.0	ND	25	86.3	84.1	2.65	56.9 - 120	30	
Heptachlor	0.79	2.0	ND	25	86.2	85.2	1.07	63.6 - 117	30	
Aldrin	0.81	2.0	ND	25	90.1	88.3	2.02	53 - 123	30	
Dieldrin	0.58	2.0	ND	25	92.3	90.8	1.59	44 - 130	30	
Endrin	0.86	2.0	ND	25	96.1	92.9	3.40	44.1 - 121	30	
4,4'-DDT	0.67	2.0	ND	25	125	124	1.32	52.8 - 134	30	
TCMX (S)			ND	350	99.2	98.8		52.5 - 139		
DCBP (S)			ND	350	112	111		50.2 - 139		

Work Order:	1408181	**Prep Method:**	5035	**Prep Date:**	09/02/14	**Prep Batch:**	12620
Matrix:	Soil	**Analytical Method:**	8260TPH	**Analyzed Date:**	09/02/14	**Analytical Batch:**	422230
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
TPH(Gasoline)	30	100	69	1000	94.6	98.4	3.92	64.0 - 133.2	30	
(S) 4-Bromofluorobenzene			108	50	74.6	77.0		43.9 - 127		

Work Order:	1408181	**Prep Method:**	3545_OCP	**Prep Date:**	09/03/14	**Prep Batch:**	12624
Matrix:	Soil	**Analytical Method:**	TO10A	**Analyzed Date:**	09/03/14	**Analytical Batch:**	422240
Units:	ug						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
gamma-BHC	0.02427	0.0100	ND	0.1	76.1	78.2	2.73	61.6 - 135	30	
Heptachlor	0.02418	0.100	ND	0.1	81.7	83.4	2.04	60 - 97.8	30	
Aldrin	0.02035	0.100	ND	0.1	80.7	83.5	3.47	55.3 - 101	30	
Dieldrin	0.02799	0.100	ND	0.1	82.7	85.6	3.52	60.3 - 116	30	
Endrin	0.03144	0.100	ND	0.1	84.7	87.4	3.05	60.4 - 134	30	
4,4'-DDT	0.03174	0.100	ND	0.1	87.1	89.9	3.23	58.4 - 126	30	
TCMX (S)			ND	0.35	77.2	79.4		40.3 - 118		
DCBP (S)			ND	0.35	84.3	88.5		52 - 116		

Torrent LABORATORY, INC.

LCS/LCSD Summary Report

Raw values are used in quality control assessment.

Work Order:	1408181	**Prep Method:**	NA	**Prep Date:**	NA	**Prep Batch:**	NA
Matrix:	Soil	**Analytical Method:**	SW8260B	**Analyzed Date:**	09/02/14	**Analytical Batch:**	422230
Units:	ug/Kg						

Parameters	MDL	PQL	Method Blank Conc.	Spike Conc.	LCS % Recovery	LCSD % Recovery	LCS/LCSD % RPD	% Recovery Limits	% RPD Limits	Lab Qualifier
1,1-Dichloroethene	1.5	10	ND	50	94.6	78.2	19.0	53.7 - 139	30	
Benzene	1.5	10	ND	50	95.7	96.7	0.935	66.5 - 135	30	
Trichloroethylene	3.9	10	ND	50	96.3	92.6	4.02	57.5 - 150	30	
Toluene	0.98	10	ND	50	93.4	94.3	0.980	56.8 - 134	30	
Chlorobenzene	4.2	10	ND	50	94.6	86.5	8.99	57.4 - 134	30	
(S) Dibromofluoromethane			ND	50	94.7	79.6		59.8 - 148		
(S) Toluene-d8			ND	50	95.0	77.2		55.2 - 133		
(S) 4-Bromofluorobenzene			ND	50	94.0	77.8		55.8 - 141		

Laboratory Qualifiers and Definitions

DEFINITIONS:

Accuracy/Bias (% Recovery) - The closeness of agreement between an observed value and an accepted reference value.
Blank (Method/Preparation Blank) -MB/PB - An analyte-free matrix to which all reagents are added in the same volumes/proportions as used in sample processing. The method blank is used to document contamination resulting from the analytical process.
Duplicate - a field sample and/or laboratory QC sample prepared in duplicate following all of the same processes and procedures used on the original sample (sample duplicate, LCSD, MSD)
Laboratory Control Sample (LCS ad LCSD) - A known matrix spiked with compounds representative of the target analyte(s). This is used to document laboratory performance.
Matrix - the component or substrate that contains the analyte of interest (e.g., - groundwater, sediment, soil, waste water, etc)
Matrix Spike (MS/MSD) - Client sample spiked with identical concentrations of target analyte (s). The spiking occurs prior to the sample preparation and analysis. They are used to document the precision and bias of a method in a given sample matrix.
Method Detection Limit (MDL) - the minimum concentration of a substance that can be measured and reported with a 99% confidence that the analyte concentration is greater than zero
Practical Quantitation Limit (PQL) - a laboratory determined value at 2 to 5 times above the MDL that can be reproduced in a manner that results in a 99% confidence level that the result is both accurate and precise. PQLs reflect all preparation factors and/or dilution factors that have been applied to the sample during the preparation and/or analytical processes.
Precision (%RPD) - The agreement among a set of replicate/duplicate measurements without regard to known value of the replicates
Surrogate (S) or (Surr) - An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. Surrogates are used in most organic analysis to demonstrate matrix compatibility with the chosen method of analysis
Tentatively Identified Compound (TIC) - A compound not contained within the analytical calibration standards but present in the GCMS library of defined compounds. When the library is searched for an unknown compound, it can frequently give a tentative identification to the compound based on retention time and primary and secondary ion match. TICs are reported as estimates and are candidates for further investigation.
Units: the unit of measure used to express the reported result - **mg/L** and ***mg/Kg*** (equivalent to PPM - parts per million in **liquid** and ***solid***), **ug/L** and ***ug/Kg*** (equivalent to PPB - parts per billion in **liquid** and ***solid***), **ug/m3**, ***mg.m3***, **ppbv** and ***ppmv*** (all units of measure for reporting concentrations in air), **%** (equivalent to 10000 ppm or 1,000,000 ppb), **ug/Wipe** (concentration found on the surface of a single Wipe usually taken over a 100cm2 surface)

LABORATORY QUALIFIERS:

B - Indicates when the anlayte is found in the associated method or preparation blank
D - Surrogate is not recoverable due to the necessary dilution of the sample
E - Indicates the reportable value is outside of the calibration range of the instrument but within the linear range of the instrument (unless otherwise noted) Values reported with an E qualifier should be considered as estimated.
H- Indicates that the recommended holding time for the analyte or compound has been exceeded
J- Indicates a value between the method MDL and PQL and that the reported concentration should be considered as estimated rather the quantitative
NA - Not Analyzed
N/A - Not Applicable
NR - Not recoverable - a matrix spike concentration is not recoverable due to a concentration within the original sample that is greater than four times the spike concentration added
R- The % RPD between a duplicate set of samples is outside of the absolute values established by laboratory control charts
S- Spike recovery is outside of established method and/or laboratory control limits. Further explanation of the use of this qualifier should be included within a case narrative
X -Used to indicate that a value based on pattern identification is within the pattern range but not typical of the pattern found in standards. Further explanation may or may not be provided within the sample footnote and/or the case narrative.

Sample Receipt Checklist

Client Name: Engeo (San Ramon)

Project Name: Jordan Ranch

Work Order No.: 1408181

Date and Time Received: 8/29/2014 14:05

Received By: ng

Physically Logged By: ldi

Checklist Completed By: ldi

Carrier Name: Client Drop Off

Chain of Custody (COC) Information

Chain of custody present?	Yes
Chain of custody signed when relinquished and received?	Yes
Chain of custody agrees with sample labels?	Yes
Custody seals intact on sample bottles?	Not Present

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Not Present
Shipping Container/Cooler In Good Condition?	Yes
Samples in proper container/bottle?	Yes
Samples containers intact?	Yes
Sufficient sample volume for indicated test?	Yes

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes			
Container/Temp Blank temperature in compliance?	Yes	Temperature:	6	°C
Water-VOA vials have zero headspace?	No VOA vials submitted			
Water-pH acceptable upon receipt?	N/A			

pH Checked by: n/a

pH Adjusted by: n/a

Login Summary Report

Client ID: TL5123 Engeo (San Ramon)
Project Name: Jordan Ranch
Project # : 7828.000.001
Report Due Date: 9/4/2014

QC Level:
TAT Requested: 3 day:25
Date Received: 8/29/2014
Time Received: 14:05

Comments:

Work Order # : ***1408181***

WO Sample ID	Client Sample ID	Collection Date/Time	Matrix	Scheduled Disposal	Sample On Hold	Test On Hold	Requested Tests	Subbed
1408181-001A	B1	08/29/14 10:20	Soil	02/25/15			S_TPHDOSG S_8081AOCP	
1408181-002A	B2	08/29/14 10:30	Soil	02/25/15			S_TPHDOSG S_8081AOCP	
1408181-003A	B3	08/29/14 10:35	Soil	02/25/15			S_TPHDOSG S_8081AOCP	
1408181-004A	B4	08/29/14 10:40	Soil	02/25/15			S_TPHDOSG S_8081AOCP	
1408181-005A	SP1	08/29/14 9:45	Soil	02/25/15			Composite	
1408181-006A	SP2	08/29/14 9:50	Soil	02/25/15			Composite	
1408181-007A	SP3	08/29/14 10:43	Soil	02/25/15			Composite	
1408181-008A	SP4	08/29/14 10:45	Soil	02/25/15			Composite	
1408181-009A	Comp SP (1-4)	08/29/14	Soil	02/25/15			S_6010BCAM17 S_7471BHG S_TPHDOSG S_8081AOCP S_GCMS-GRO S_8260Full	

CHAIN OF CUSTODY RECORD

1408181

PROJECT NUMBER: 7828 000 001
PROJECT NAME: Jordan Ranch
SAMPLED BY: (SIGNATURE/PRINT) / Robert Peck
PROJECT MANAGER: (SIGNATURE/PRINT) Shawn Munger
ROUTING: E-MAIL rpeck@engeo.com HARD COPY

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	OCP	CAM 17	TPH-g	TPH-d/mo w/silica gel cleanup	VOCs			REMARKS REQUIRED DETECTION LIMITS
B1	8/29/14	10:20	SOIL	1	2" x 6" SS Liner	ICE	X			X		-001A		
B2		10:30	SOIL	1	2" x 6" SS Liner	ICE	X			X		-002A		
B3		10:35	SOIL	1	2" x 6" SS Liner	ICE	X			X		-003A		
B4		10:40	SOIL	1	2" x 6" SS Liner	ICE	X			X		-004A		
SP1		9:45	SOIL	1	2" x 6" SS Liner	ICE	X	X	X	X	X	-005A		
SP2		9:50	SOIL	1	2" x 6" SS Liner	ICE	X	X	X	X	X	-006A	-009A	
SP3		10:43	SOIL	1	2" x 6" SS Liner	ICE	X	X	X	X	X	-007A		
SP4		10:45	SOIL	1	2" x 6" SS Liner	ICE	X	X	X	X	X	-008A		
			SOIL	1	2" x 6" SS Liner	ICE								
			SOIL	1	2" x 6" SS Liner	ICE								
			SOIL	1	2" x 6" SS Liner	ICE								
			SOIL	1	2" x 6" SS Liner	ICE								
			SOIL	1	2" x 6" SS Liner	ICE								
			SOIL	1	2" x 6" SS Liner	ICE								
			SOIL	1	2" x 6" SS Liner	ICE								
			SOIL	1	2" x 6" SS Liner	ICE								
			SOIL	1	2" x 6" SS Liner	ICE								
			SOIL	1	2" x 6" SS Liner	ICE								
			SOIL	1	2" x 6" SS Liner	ICE								

RELINQUISHED BY: (SIGNATURE)	DATE/TIME 8/29/14 14:05	RECEIVED BY: (SIGNATURE) NAVIN G N.G. Ghodasara	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS B1-B4: Discrete SP1-SP4: 4-Point composite 3 Day TAT	

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CALIFORNIA LABORATORY SERVICES

3249 Fitzgerald Road Rancho Cordova, CA 95742

September 17, 2014

CLS Work Order #: CXI0522
COC #:

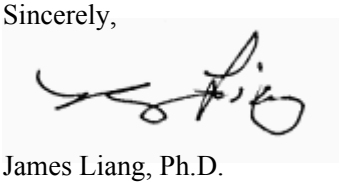
Shawn Munger
ENGEO
2213 Plaza Drive
Rocklin, CA 95765

Project Name: Jordan Ranch

Enclosed are the results of analyses for samples received by the laboratory on 09/10/14 17:30. 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

ENGEO
2213 Plaza Drive
Rocklin, CA 95765

Project: Jordan Ranch
Project Number: 7828.000.001
Project Manager: Shawn Munger

CLS Work Order #: CXI0522
COC #:

CHAIN OF CUSTODY RECORD

CXI0522

PROJECT NUMBER: 7828.000.001
PROJECT NAME: Jordan Ranch
SAMPLED BY: (SIGNATURE/PRINT) Robert Peck
PROJECT MANAGER: (SIGNATURE/PRINT) Shawn Munger
ROUTING: E-MAIL rpeck@engeo.com HARD COPY

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	TPH-gasoline	TPH-d/mo(silica gel C10or up)	CAM 17	VOCs	OCPs	PCBs	REMARKS REQUIRED DETECTION LIMITS
C-1	9/9/2014	14:05	Soil	1	2"x6" SS Liner	Ice	X	X					
C-2	9/9/2014	14:15	Soil	1	2"x6" SS Liner	Ice	X	X					
C-3	9/9/2014	14:30	Soil	1	2"x6" SS Liner	Ice	X	X					
C-4	9/9/2014	14:40	Soil	1	2"x6" SS Liner	Ice	X	X					

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
	9-9-14 17:00	Jackie Schuyler	Jackie Schuyler	9/10/14 11:50	N. OKENAWA
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	
N. OKENAWA	9/10/14 17:30			Standard TAT 4-Point composite Homogenize	

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Rocklin, CA 95765

Project: Jordan Ranch
Project Number: 7828.000.001
Project Manager: Shawn Munger

CLS Work Order #: CXI0522
COC #:

CAM 17 Metals

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C - (1-4) Composite (CXI0522-05) Soil Sampled: 09/09/14 14:05 Received: 09/10/14 17:30									
Antimony	ND	2.5	mg/kg	1	CX06469	09/15/14	09/15/14	EPA 6010B	
Barium	**200**	1.0	"	"	"	"	"	"	
Beryllium	ND	1.0	"	"	"	"	"	"	
Cadmium	ND	1.0	"	"	"	"	"	"	
Cobalt	**9.4**	1.0	"	"	"	"	"	"	
Chromium	**25**	1.0	"	"	"	"	"	"	
Copper	**9.9**	1.0	"	"	"	"	"	"	
Lead	**22**	2.5	"	"	"	"	"	"	
Molybdenum	ND	1.0	"	"	"	"	"	"	
Nickel	**33**	1.0	"	"	"	"	"	"	
Silver	ND	1.0	"	"	"	"	"	"	
Vanadium	**26**	1.0	"	"	"	"	"	"	
Zinc	**110**	1.0	"	"	"	"	"	"	
Arsenic	**1.8**	1.0	"	"	"	"	"	"	
Selenium	ND	2.5	"	"	"	"	"	"	
Thallium	ND	4.0	"	"	"	"	"	"	
Mercury	**0.15**	0.10	"	"	CX06447	09/12/14	09/12/14	EPA 7471A	

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2213 Plaza Drive
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Project: Jordan Ranch
Project Number: 7828.000.001
Project Manager: Shawn Munger

CLS Work Order #: CXI0522
COC #:

Extractable Petroleum Hydrocarbons by EPA Method 8015M

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C - (1-4) Composite (CXI0522-05) Soil	**Sampled: 09/09/14 14:05**	**Received: 09/10/14 17:30**							**EXT-3**
Diesel	ND	1.0	mg/kg	1	CX06407	09/11/14	09/12/14	EPA 8015M	
Motor Oil	**120**	1.0	"	"	"	"	"	"	
Surrogate: o-Terphenyl		*74 %*	*65-135*		*"*	*"*	*"*	*"*	

ENGEO
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Project: Jordan Ranch
Project Number: 7828.000.001
Project Manager: Shawn Munger

CLS Work Order #: CXI0522
COC #:

Organochlorine Pesticides by EPA Method 8081A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C - (1-4) Composite (CXI0522-05) Soil Sampled: 09/09/14 14:05 Received: 09/10/14 17:30									
Aldrin	ND	10	µg/kg	10	CX06477	09/15/14	09/17/14	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	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	**14000**	400	"	20	"	"	"	"	
Surrogate: Tetrachloro-meta-xylene		*64 %*		*46-139*		*"*	*"*	*"*	*"*
Surrogate: Decachlorobiphenyl		*70 %*		*52-141*		*"*	*"*	*"*	*"*

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Project: Jordan Ranch
Project Number: 7828.000.001
Project Manager: Shawn Munger

CLS Work Order #: CXI0522
COC #:

Polychlorinated Biphenyls by EPA Method 8082A

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C - (1-4) Composite (CXI0522-05) Soil Sampled: 09/09/14 14:05 Received: 09/10/14 17:30									
Aroclor 1016	ND	20	µg/kg	1	CX06478	"	09/17/14	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		*138 %*		*50-150*	"	"	"	"	

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Project: Jordan Ranch
Project Number: 7828.000.001
Project Manager: Shawn Munger

CLS Work Order #: CXI0522
COC #:

TPH-Gasoline by GC/MS

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C - (1-4) Composite (CXI0522-05) Soil Sampled: 09/09/14 14:05 Received: 09/10/14 17:30									
Gasoline	ND	0.20	mg/kg	1	CX06422	09/11/14	09/11/14	EPA 8260M	
Surrogate: Toluene-d8		*95 %*		*65-135*	"	"	"	"	

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Project: Jordan Ranch
Project Number: 7828.000.001
Project Manager: Shawn Munger

CLS Work Order #: CXI0522
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C - (1-4) Composite (CXI0522-05) Soil Sampled: 09/09/14 14:05 Received: 09/10/14 17:30									
Acetone	ND	100	µg/kg	1	CX06422	"	09/11/14	EPA 8260B	
Benzene	ND	5.0	"	"	"	"	"	"	
Bromobenzene	ND	5.0	"	"	"	"	"	"	
Bromochloromethane	ND	5.0	"	"	"	"	"	"	
Bromodichloromethane	ND	5.0	"	"	"	"	"	"	
Bromoform	ND	5.0	"	"	"	"	"	"	
Bromomethane	ND	10	"	"	"	"	"	"	
2-Butanone	ND	100	"	"	"	"	"	"	
n-Butylbenzene	ND	5.0	"	"	"	"	"	"	
sec-Butylbenzene	ND	5.0	"	"	"	"	"	"	
tert-Butylbenzene	ND	5.0	"	"	"	"	"	"	
Carbon tetrachloride	ND	5.0	"	"	"	"	"	"	
Chlorobenzene	ND	5.0	"	"	"	"	"	"	
Chloroethane	ND	5.0	"	"	"	"	"	"	
Chloroform	ND	5.0	"	"	"	"	"	"	
Chloromethane	ND	10	"	"	"	"	"	"	
o-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
p-Chlorotoluene	ND	5.0	"	"	"	"	"	"	
Dibromochloromethane	ND	5.0	"	"	"	"	"	"	
1,2-Dibromo-3-chloropropane	ND	10	"	"	"	"	"	"	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	"	"	"	"	
Dibromomethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,3-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,4-Dichlorobenzene	ND	5.0	"	"	"	"	"	"	
Dichlorodifluoromethane (Freon 12)	ND	10	"	"	"	"	"	"	
1,1-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,2-Dichloroethane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloroethene	ND	5.0	"	"	"	"	"	"	
cis-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	
trans-1,2-Dichloroethene	ND	5.0	"	"	"	"	"	"	

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Project: Jordan Ranch
Project Number: 7828.000.001
Project Manager: Shawn Munger

CLS Work Order #: CXI0522
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C - (1-4) Composite (CXI0522-05) Soil Sampled: 09/09/14 14:05 Received: 09/10/14 17:30									
1,2-Dichloropropane	ND	5.0	µg/kg	1	CX06422	"	09/11/14	EPA 8260B	
1,3-Dichloropropane	ND	5.0	"	"	"	"	"	"	
2,2-Dichloropropane	ND	5.0	"	"	"	"	"	"	
1,1-Dichloropropene	ND	5.0	"	"	"	"	"	"	
cis-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
trans-1,3-Dichloropropene	ND	5.0	"	"	"	"	"	"	
Ethylbenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"	"	"	"	"	"	
Hexachlorobutadiene	ND	5.0	"	"	"	"	"	"	
2-Hexanone	ND	50	"	"	"	"	"	"	
Isopropylbenzene	ND	5.0	"	"	"	"	"	"	
p-Isopropyltoluene	ND	5.0	"	"	"	"	"	"	
Methylene chloride	ND	5.0	"	"	"	"	"	"	
4-Methyl-2-pentanone	ND	50	"	"	"	"	"	"	
Methyl tert-butyl ether	ND	5.0	"	"	"	"	"	"	
Naphthalene	ND	5.0	"	"	"	"	"	"	
n-Propylbenzene	ND	5.0	"	"	"	"	"	"	
Styrene	ND	5.0	"	"	"	"	"	"	
1,1,2,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1,2-Tetrachloroethane	ND	5.0	"	"	"	"	"	"	
Tetrachloroethene	ND	5.0	"	"	"	"	"	"	
Toluene	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,2,4-Trichlorobenzene	ND	5.0	"	"	"	"	"	"	
1,1,2-Trichloroethane	ND	5.0	"	"	"	"	"	"	
1,1,1-Trichloroethane	ND	5.0	"	"	"	"	"	"	
Trichloroethene	ND	5.0	"	"	"	"	"	"	
Trichlorofluoromethane	ND	5.0	"	"	"	"	"	"	
1,2,3-Trichloropropane	ND	5.0	"	"	"	"	"	"	
1,3,5-Trimethylbenzene	ND	5.0	"	"	"	"	"	"	

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Rocklin, CA 95765

Project: Jordan Ranch
Project Number: 7828.000.001
Project Manager: Shawn Munger

CLS Work Order #: CXI0522
COC #:

Volatile Organic Compounds by EPA Method 8260B

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
C - (1-4) Composite (CXI0522-05) Soil Sampled: 09/09/14 14:05 Received: 09/10/14 17:30									
1,2,4-Trimethylbenzene	ND	5.0	µg/kg	1	CX06422	"	09/11/14	EPA 8260B	
Vinyl chloride	ND	10	"	"	"	"	"	"	
Xylenes (total)	ND	10	"	"	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		*101 %*		*50-125*	"	"	"	"	
Surrogate: Toluene-d8		*95 %*		*62-125*	"	"	"	"	
Surrogate: 4-Bromofluorobenzene		*102 %*		*50-128*	"	"	"	"	

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2213 Plaza Drive
Rocklin, CA 95765

Project: Jordan Ranch
Project Number: 7828.000.001
Project Manager: Shawn Munger

CLS Work Order #: CXI0522
COC #:

CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CX06447 - EPA 7471A										
Blank (CX06447-BLK1)				Prepared & Analyzed: 09/12/14						
Mercury	ND	0.10	mg/kg							
LCS (CX06447-BS1)				Prepared & Analyzed: 09/12/14						
Mercury	0.250	0.10	mg/kg	0.250		100	75-125			
Matrix Spike (CX06447-MS1)		**Source: CXI0557-01**		Prepared & Analyzed: 09/12/14						
Mercury	0.281	0.10	mg/kg	0.250	0.0275	101	75-125			
Matrix Spike Dup (CX06447-MSD1)		**Source: CXI0557-01**		Prepared & Analyzed: 09/12/14						
Mercury	0.301	0.10	mg/kg	0.250	0.0275	109	75-125	7	25	
Batch CX06469 - EPA 3050B										
Blank (CX06469-BLK1)				Prepared & Analyzed: 09/15/14						
Antimony	ND	2.5	mg/kg							
Barium	ND	1.0	"							
Beryllium	ND	1.0	"							
Cadmium	ND	1.0	"							
Cobalt	ND	1.0	"							
Chromium	ND	1.0	"							
Copper	1.05	1.0	"							QB-1
Lead	ND	2.5	"							
Molybdenum	ND	1.0	"							
Nickel	ND	1.0	"							
Silver	ND	1.0	"							
Vanadium	ND	1.0	"							
Zinc	ND	1.0	"							
Arsenic	ND	1.0	"							
Selenium	ND	2.5	"							
Thallium	ND	4.0	"							

ENGEO
2213 Plaza Drive
Rocklin, CA 95765

Project: Jordan Ranch
Project Number: 7828.000.001
Project Manager: Shawn Munger

CLS Work Order #: CXI0522
COC #:

CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CX06469 - EPA 3050B										
LCS (CX06469-BS1)				Prepared & Analyzed: 09/15/14						
Antimony	92.8	2.5	mg/kg	100		93	75-125			
Barium	91.8	1.0	"	100		92	75-125			
Beryllium	95.5	1.0	"	100		96	75-125			
Cadmium	93.7	1.0	"	100		94	75-125			
Cobalt	93.6	1.0	"	100		94	75-125			
Chromium	89.2	1.0	"	100		89	75-125			
Copper	102	1.0	"	100		102	75-125			
Lead	96.2	2.5	"	100		96	75-125			
Molybdenum	93.0	1.0	"	100		93	75-125			
Nickel	92.2	1.0	"	100		92	75-125			
Silver	98.6	1.0	"	100		99	75-125			
Vanadium	94.5	1.0	"	100		95	75-125			
Zinc	86.9	1.0	"	100		87	75-125			
Arsenic	99.1	1.0	"	100		99	75-125			
Selenium	82.5	2.5	"	100		83	75-125			
Thallium	99.5	4.0	"	100		99	75-125			
Matrix Spike (CX06469-MS1)	**Source: CXI0557-01**			Prepared & Analyzed: 09/15/14						
Antimony	46.9	2.5	mg/kg	100	ND	47	75-125			QM-5
Barium	146	1.0	"	100	69.7	77	75-125			
Beryllium	86.8	1.0	"	100	ND	87	75-125			
Cadmium	84.2	1.0	"	100	0.347	84	75-125			
Cobalt	88.7	1.0	"	100	6.12	83	75-125			
Chromium	90.0	1.0	"	100	8.74	81	75-125			
Copper	100	1.0	"	100	7.20	93	75-125			
Lead	92.0	2.5	"	100	7.24	85	75-125			
Molybdenum	80.9	1.0	"	100	ND	81	75-125			
Nickel	87.3	1.0	"	100	5.40	82	75-125			
Silver	90.9	1.0	"	100	ND	91	75-125			
Vanadium	105	1.0	"	100	19.7	85	75-125			
Zinc	105	1.0	"	100	26.0	79	75-125			

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Project Number: 7828.000.001
Project Manager: Shawn Munger

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COC #:

CAM 17 Metals - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch CX06469 - EPA 3050B										
Matrix Spike (CX06469-MS1)	**Source: CXI0557-01**			Prepared & Analyzed: 09/15/14						
Arsenic	89.6	1.0	mg/kg	100	1.59	88	75-125			
Selenium	81.1	2.5	"	100	ND	81	75-125			
Thallium	83.5	4.0	"	100	ND	84	75-125			
Matrix Spike Dup (CX06469-MSD1)	**Source: CXI0557-01**			Prepared & Analyzed: 09/15/14						
Antimony	48.2	2.5	mg/kg	100	ND	48	75-125	3	30	QM-5
Barium	160	1.0	"	100	69.7	90	75-125	9	30	
Beryllium	93.8	1.0	"	100	ND	94	75-125	8	30	
Cadmium	89.5	1.0	"	100	0.347	89	75-125	6	30	
Cobalt	93.2	1.0	"	100	6.12	87	75-125	5	30	
Chromium	101	1.0	"	100	8.74	92	75-125	11	30	
Copper	105	1.0	"	100	7.20	98	75-125	5	30	
Lead	97.8	2.5	"	100	7.24	91	75-125	6	30	
Molybdenum	86.6	1.0	"	100	ND	87	75-125	7	30	
Nickel	95.0	1.0	"	100	5.40	90	75-125	8	30	
Silver	97.6	1.0	"	100	ND	98	75-125	7	30	
Vanadium	115	1.0	"	100	19.7	95	75-125	9	30	
Zinc	114	1.0	"	100	26.0	88	75-125	8	30	
Arsenic	95.8	1.0	"	100	1.59	94	75-125	7	30	
Selenium	85.7	2.5	"	100	ND	86	75-125	5	30	
Thallium	88.2	4.0	"	100	ND	88	75-125	5	30	

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Project Manager: Shawn Munger

CLS Work Order #: CXI0522
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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 CX06407 - CA LUFT - orb shaker										
Blank (CX06407-BLK1)				Prepared: 09/11/14 Analyzed: 09/12/14						
Diesel	ND	1.0	mg/kg							
Motor Oil	ND	1.0	"							
Surrogate: o-Terphenyl	*0.550*		*"*	*0.500*		*110*	*65-135*			
LCS (CX06407-BS1)				Prepared: 09/11/14 Analyzed: 09/12/14						
Diesel	50.4	1.0	mg/kg	50.0		101	65-135			
Surrogate: o-Terphenyl	*0.481*		*"*	*0.500*		*96*	*65-135*			
LCS Dup (CX06407-BSD1)				Prepared: 09/11/14 Analyzed: 09/12/14						
Diesel	52.2	1.0	mg/kg	50.0		104	65-135	3	30	
Surrogate: o-Terphenyl	*0.489*		*"*	*0.500*		*98*	*65-135*			
Matrix Spike (CX06407-MS1)	**Source: CXI0493-01**			Prepared: 09/11/14 Analyzed: 09/12/14						
Diesel	58.5	1.0	mg/kg	50.0	ND	117	59-138			
Surrogate: o-Terphenyl	*0.552*		*"*	*0.500*		*110*	*65-135*			
Matrix Spike Dup (CX06407-MSD1)	**Source: CXI0493-01**			Prepared: 09/11/14 Analyzed: 09/12/14						
Diesel	57.0	1.0	mg/kg	50.0	ND	114	59-138	3	37	
Surrogate: o-Terphenyl	*0.513*		*"*	*0.500*		*103*	*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 CX06477 - EPA method 3545										
Blank (CX06477-BLK1)				Prepared: 09/15/14 Analyzed: 09/17/14						
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	*21.3*		*"*	*41.7*		*51*	*46-139*			
Surrogate: Decachlorobiphenyl	*26.0*		*"*	*41.7*		*62*	*52-141*			
LCS (CX06477-BS1)				Prepared: 09/15/14 Analyzed: 09/17/14						
Aldrin	29.3	1.0	µg/kg	33.3		88	47-132			
gamma-BHC (Lindane)	28.7	10	"	33.3		86	56-133			
4,4´-DDT	29.9	15	"	33.3		90	46-137			
Dieldrin	31.2	1.0	"	33.3		94	44-143			
Endrin	30.8	15	"	33.3		92	30-147			
Heptachlor	27.7	5.0	"	33.3		83	33-148			
Surrogate: Tetrachloro-meta-xylene	*26.3*		*"*	*41.7*		*63*	*46-139*			

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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 CX06477 - EPA method 3545										
LCS (CX06477-BS1)				Prepared: 09/15/14 Analyzed: 09/17/14						
Surrogate: Decachlorobiphenyl	*30.9*		*µg/kg*	*41.7*		*74*	*52-141*			
LCS Dup (CX06477-BSD1)				Prepared: 09/15/14 Analyzed: 09/17/14						
Aldrin	27.7	1.0	µg/kg	33.3		83	47-132	6	30	
gamma-BHC (Lindane)	27.0	10	"	33.3		81	56-133	6	30	
4,4´-DDT	28.6	15	"	33.3		86	46-137	4	30	
Dieldrin	29.3	1.0	"	33.3		88	44-143	6	30	
Endrin	32.6	15	"	33.3		98	30-147	6	30	
Heptachlor	26.4	5.0	"	33.3		79	33-148	5	30	
Surrogate: Tetrachloro-meta-xylene	*24.2*		*"*	*41.7*		*58*	*46-139*			
Surrogate: Decachlorobiphenyl	*27.6*		*"*	*41.7*		*66*	*52-141*			
Matrix Spike (CX06477-MS1)	**Source: CXI0522-05**			Prepared: 09/15/14 Analyzed: 09/17/14						
Aldrin	66.6	10	µg/kg	33.3	ND	200	47-138			QM-7T
gamma-BHC (Lindane)	128	100	"	33.3	ND	384	38-144			QM-7T
4,4´-DDT	64.0	150	"	33.3	ND	192	41-157			QM-7T
Dieldrin	100	10	"	33.3	ND	301	46-155			QM-7T
Endrin	137	150	"	33.3	ND	410	34-149			QM-7T
Heptachlor	16.7	50	"	33.3	ND	50	36-155			
Surrogate: Tetrachloro-meta-xylene	*23.5*		*"*	*41.7*		*56*	*46-139*			
Surrogate: Decachlorobiphenyl	*23.3*		*"*	*41.7*		*56*	*52-141*			
Matrix Spike Dup (CX06477-MSD1)	**Source: CXI0522-05**			Prepared: 09/15/14 Analyzed: 09/17/14						
Aldrin	301	10	µg/kg	33.3	ND	902	47-138	127	35	QM-7T
gamma-BHC (Lindane)	130	100	"	33.3	ND	389	38-144	1	35	QM-7T
4,4´-DDT	68.4	150	"	33.3	ND	205	41-157	7	35	QM-7T
Dieldrin	196	10	"	33.3	ND	587	46-155	64	35	QM-7T
Endrin	149	150	"	33.3	ND	446	34-149	8	35	QM-7T
Heptachlor	18.0	50	"	33.3	ND	54	36-155	7	35	
Surrogate: Tetrachloro-meta-xylene	*25.4*		*"*	*41.7*		*61*	*46-139*			
Surrogate: Decachlorobiphenyl	*23.8*		*"*	*41.7*		*57*	*52-141*			

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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 CX06478 - EPA method 3545										
Blank (CX06478-BLK1)				Prepared: 09/15/14 Analyzed: 09/17/14						
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	*17.7*		*"*	*16.7*		*106*	*50-150*			
LCS (CX06478-BS1)				Prepared: 09/15/14 Analyzed: 09/17/14						
Aroclor 1260	82.6	20	µg/kg	167		50	29-131			
Surrogate: Decachlorobiphenyl	*17.7*		*"*	*16.7*		*106*	*50-150*			
LCS Dup (CX06478-BSD1)				Prepared: 09/15/14 Analyzed: 09/17/14						
Aroclor 1260	96.6	20	µg/kg	167		58	29-131	16	30	
Surrogate: Decachlorobiphenyl	*18.2*		*"*	*16.7*		*109*	*50-150*			
Matrix Spike (CX06478-MS1)		**Source: CXI0529-01**		Prepared: 09/15/14 Analyzed: 09/17/14						
Aroclor 1260	110	20	µg/kg	167	ND	66	29-131			
Surrogate: Decachlorobiphenyl	*20.7*		*"*	*16.7*		*124*	*50-150*			
Matrix Spike Dup (CX06478-MSD1)		**Source: CXI0529-01**		Prepared: 09/15/14 Analyzed: 09/17/14						
Aroclor 1260	112	20	µg/kg	167	ND	67	29-131	2	30	
Surrogate: Decachlorobiphenyl	*23.2*		*"*	*16.7*		*139*	*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 CX06422 - EPA 5030 Soil MS										
Blank (CX06422-BLK1)				Prepared & Analyzed: 09/11/14						
Gasoline	ND	0.20	mg/kg							
Surrogate: Toluene-d8	*0.0284*		*"*	*0.0300*		*94*	*65-135*			
LCS (CX06422-BS1)				Prepared & Analyzed: 09/11/14						
Gasoline	2.10	0.20	mg/kg	2.00		105	65-135			
Surrogate: Toluene-d8	*0.0279*		*"*	*0.0300*		*93*	*65-135*			
LCS Dup (CX06422-BSD1)				Prepared & Analyzed: 09/11/14						
Gasoline	2.03	0.20	mg/kg	2.00		102	65-135	3	30	
Surrogate: Toluene-d8	*0.0265*		*"*	*0.0300*		*88*	*65-135*			
Matrix Spike (CX06422-MS1)	**Source: CXI0505-05**			Prepared: 09/11/14 Analyzed: 09/12/14						
Gasoline	1.70	0.20	mg/kg	2.00	ND	85	63-124			
Surrogate: Toluene-d8	*0.0264*		*"*	*0.0300*		*88*	*65-135*			
Matrix Spike Dup (CX06422-MSD1)	**Source: CXI0505-05**			Prepared: 09/11/14 Analyzed: 09/12/14						
Gasoline	1.90	0.20	mg/kg	2.00	ND	95	63-124	11	35	
Surrogate: Toluene-d8	*0.0252*		*"*	*0.0300*		*84*	*65-135*			

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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 CX06422 - EPA 5030 Soil MS										
Blank (CX06422-BLK1)				Prepared & Analyzed: 09/11/14						
Acetone	ND	100	µg/kg							
Benzene	ND	5.0	"							
Bromobenzene	ND	5.0	"							
Bromochloromethane	ND	5.0	"							
Bromodichloromethane	ND	5.0	"							
Bromoform	ND	5.0	"							
Bromomethane	ND	10	"							
2-Butanone	ND	100	"							
n-Butylbenzene	ND	5.0	"							
sec-Butylbenzene	ND	5.0	"							
tert-Butylbenzene	ND	5.0	"							
Carbon tetrachloride	ND	5.0	"							
Chlorobenzene	ND	5.0	"							
Chloroethane	ND	5.0	"							
Chloroform	ND	5.0	"							
Chloromethane	ND	10	"							
o-Chlorotoluene	ND	5.0	"							
p-Chlorotoluene	ND	5.0	"							
Dibromochloromethane	ND	5.0	"							
1,2-Dibromo-3-chloropropane	ND	10	"							
1,2-Dibromoethane (EDB)	ND	5.0	"							
Dibromomethane	ND	5.0	"							
1,2-Dichlorobenzene	ND	5.0	"							
1,3-Dichlorobenzene	ND	5.0	"							
1,4-Dichlorobenzene	ND	5.0	"							
Dichlorodifluoromethane (Freon 12)	ND	10	"							
1,1-Dichloroethane	ND	5.0	"							
1,2-Dichloroethane	ND	5.0	"							
1,1-Dichloroethene	ND	5.0	"							
cis-1,2-Dichloroethene	ND	5.0	"							
trans-1,2-Dichloroethene	ND	5.0	"							

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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 CX06422 - EPA 5030 Soil MS										
Blank (CX06422-BLK1)				Prepared & Analyzed: 09/11/14						
1,2-Dichloropropane	ND	5.0	µg/kg							
1,3-Dichloropropane	ND	5.0	"							
2,2-Dichloropropane	ND	5.0	"							
1,1-Dichloropropene	ND	5.0	"							
cis-1,3-Dichloropropene	ND	5.0	"							
trans-1,3-Dichloropropene	ND	5.0	"							
Ethylbenzene	ND	5.0	"							
1,1,2-Trichloro-1,2,2-trifluoroethane (Freon 113)	ND	5.0	"							
Hexachlorobutadiene	ND	5.0	"							
2-Hexanone	ND	50	"							
Isopropylbenzene	ND	5.0	"							
p-Isopropyltoluene	ND	5.0	"							
Methylene chloride	ND	5.0	"							
4-Methyl-2-pentanone	ND	50	"							
Methyl tert-butyl ether	ND	5.0	"							
Naphthalene	ND	5.0	"							
n-Propylbenzene	ND	5.0	"							
Styrene	ND	5.0	"							
1,1,2,2-Tetrachloroethane	ND	5.0	"							
1,1,1,2-Tetrachloroethane	ND	5.0	"							
Tetrachloroethene	ND	5.0	"							
Toluene	ND	5.0	"							
1,2,3-Trichlorobenzene	ND	5.0	"							
1,2,4-Trichlorobenzene	ND	5.0	"							
1,1,2-Trichloroethane	ND	5.0	"							
1,1,1-Trichloroethane	ND	5.0	"							
Trichloroethene	ND	5.0	"							
Trichlorofluoromethane	ND	5.0	"							
1,2,3-Trichloropropane	ND	5.0	"							
1,3,5-Trimethylbenzene	ND	5.0	"							

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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 CX06422 - EPA 5030 Soil MS										
Blank (CX06422-BLK1)				Prepared & Analyzed: 09/11/14						
1,2,4-Trimethylbenzene	ND	5.0	µg/kg							
Vinyl chloride	ND	10	"							
Xylenes (total)	ND	10	"							
Surrogate: 1,2-Dichloroethane-d4	*29.7*		*"*	*30.0*		*99*	*50-125*			
Surrogate: Toluene-d8	*28.4*		*"*	*30.0*		*94*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*29.0*		*"*	*30.0*		*97*	*50-128*			
LCS (CX06422-BS1)				Prepared & Analyzed: 09/11/14						
Benzene	22.1	5.0	µg/kg	20.0		111	64-135			
Chlorobenzene	21.6	5.0	"	20.0		108	67-133			
1,1-Dichloroethene	19.7	5.0	"	20.0		98	53-137			
Toluene	22.1	5.0	"	20.0		111	61-138			
Trichloroethene	20.2	5.0	"	20.0		101	64-130			
Surrogate: 1,2-Dichloroethane-d4	*26.1*		*"*	*30.0*		*87*	*50-125*			
Surrogate: Toluene-d8	*33.1*		*"*	*30.0*		*110*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*28.4*		*"*	*30.0*		*95*	*50-128*			
LCS Dup (CX06422-BSD1)				Prepared & Analyzed: 09/11/14						
Benzene	21.4	5.0	µg/kg	20.0		107	64-135	3	30	
Chlorobenzene	22.3	5.0	"	20.0		112	67-133	4	30	
1,1-Dichloroethene	17.7	5.0	"	20.0		88	53-137	11	30	
Toluene	21.4	5.0	"	20.0		107	61-138	4	30	
Trichloroethene	20.0	5.0	"	20.0		100	64-130	0.8	30	
Surrogate: 1,2-Dichloroethane-d4	*25.3*		*"*	*30.0*		*84*	*50-125*			
Surrogate: Toluene-d8	*32.7*		*"*	*30.0*		*109*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*29.1*		*"*	*30.0*		*97*	*50-128*			
Matrix Spike (CX06422-MS1)	**Source: CXI0505-05**			Prepared: 09/11/14 Analyzed: 09/12/14						
Benzene	12.2	5.0	µg/kg	20.0	ND	61	58-139			
Chlorobenzene	9.38	5.0	"	20.0	ND	47	62-134			QM-5
1,1-Dichloroethene	12.2	5.0	"	20.0	ND	61	53-152			
Toluene	8.87	5.0	"	20.0	ND	44	58-139			QM-5

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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 CX06422 - EPA 5030 Soil MS										
Matrix Spike (CX06422-MS1)	**Source: CXI0505-05**			Prepared: 09/11/14 Analyzed: 09/12/14						
Trichloroethene	9.25	5.0	µg/kg	20.0	ND	46	55-138			QM-5
Surrogate: 1,2-Dichloroethane-d4	*31.1*		*"*	*30.0*		*104*	*50-125*			
Surrogate: Toluene-d8	*27.3*		*"*	*30.0*		*91*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*32.6*		*"*	*30.0*		*109*	*50-128*			
Matrix Spike Dup (CX06422-MSD1)	**Source: CXI0505-05**			Prepared: 09/11/14 Analyzed: 09/12/14						
Benzene	17.6	5.0	µg/kg	20.0	ND	88	58-139	36	30	QR-1
Chlorobenzene	15.5	5.0	"	20.0	ND	78	62-134	49	30	QR-1
1,1-Dichloroethene	16.3	5.0	"	20.0	ND	81	53-152	29	30	
Toluene	16.6	5.0	"	20.0	ND	83	58-139	61	30	QR-1
Trichloroethene	15.5	5.0	"	20.0	ND	78	55-138	51	30	QR-1
Surrogate: 1,2-Dichloroethane-d4	*30.4*		*"*	*30.0*		*101*	*50-125*			
Surrogate: Toluene-d8	*33.7*		*"*	*30.0*		*112*	*62-125*			
Surrogate: 4-Bromofluorobenzene	*33.9*		*"*	*30.0*		*113*	*50-128*			

ENGEO	Project: Jordan Ranch	
2213 Plaza Drive	Project Number: 7828.000.001	**CLS Work Order #: CXI0522**
Rocklin, CA 95765	Project Manager: Shawn Munger	COC #:

Notes and Definitions

QR-1	The RPD value for the sample duplicate or MS/MSD was outside of the QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery.
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.
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.
QB-1	The method blank or calibration verfication blank contains analyte at a concentration above the MRL; however, concentration is less than 10% of the sample result, which is negligible according to method criteria.
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

LANDFILL SCALE RECEIPTS

10072.000.000
October 30, 2014

NO. 297363

CLEANHARBORS BUTTONWILLOW, LLC
WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster whose signature is on this certificate, who is a recognized authority of accuracy, as prescribed in Chapter 7 (commencing with Section12700) of Division 5 of the California Business and Professions Code, administered by the Division of Measurement Standards of the California Department of Food and Agiculture.

WEIGHMASTER CLEANHARBORS BUTTONWILLOW, LLC

3:06 PM 10/03/14
REG. (71)
INBOUND 87000 lb

1:16 PM 10/03/14

REG. (71)
87000 lb GROSS
29640 lb TARE
57360 lb NET
28.68

☐ END DUMP ☐ TRANSFER ☐ VACUUM ☐ VAN

☐ ROLL OFF - _____ ☐ FLAT BED ☐ _____

PROFILE NO.	1CLI880353	GROSS WT. BY: / DEPUTY	DATE 10/03/14
DISPOSAL LOCATION	~~25-4~~ 24-4-13	TARE WT. BY: / DEPUTY	DATE 10/03/14
DRIVER'S NAME PRINTED	Gonzalo Sanche	WEIGHING LOCATION:	2500 W. LOKERN ROAD BUTTONWILLOW, CA 93206
DRIVER'S NAME SIGNATURE	Gonzalo Sanch	GENERATOR	E.I.P. RO F Jordan Ranch
TRACTOR NO.	02	TRANSPORTER	Sanche Transport
TRACTOR LIC. NO.	WP18986	MANIFEST NO.	013797100JJK
TRAILER LIC. NO.	4HB5804	SERVICE ORDER NO.	140242916O
BIN NUMBERS:		BIN TRACKING	

VIS	pH	SUL	CYA	OX	FL	FLASH	20%	
+	6.96	—	—	—	C			
OTHER:								

IC	CR	PR	B.W. W.B.	LAB	SOLID BULK	WORK SHEET	LAND TRACK	W.T. SCAN	MAN-SCAN	RE-SCAN

DRUM NUMBER:

COMMENTS:

BIN DROP FULL:

MOVE BIN TO: DATE: BY:

REVISED (3/10)

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
[illegible]	1	[illegible]	013797100 JJK

5. Generator's Name and Mailing Address
DJP-HOF JORDAN RANCH LLC
[illegible] HOPYARD RD, SUITE [illegible]
PLEASANTON, CA [illegible]
Generator's Phone: [illegible]

Generator's Site Address (if different than mailing address)
DJP-HOF JORDAN RANCH LLC
[illegible] FALLON RD
LIVERMORE, CA [illegible]
[illegible]

6. Transporter 1 Company Name: Sanchez Transport Inc
U.S. EPA ID Number: [illegible]

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

8. Designated Facility Name and Site Address
CLEAN HARBORS BUTTONWILLOW
[illegible] WEST LOKERN ROAD
BUTTONWILLOW, CA [illegible]
Facility's Phone: [illegible]
U.S. EPA ID Number: [illegible]

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. NON-RCRA HAZARDOUS WASTE, SOLID (SOIL)	1	DT	18	Y	[illegible]
	2.					
	3.					
	4.					

14. Special Handling Instructions and Additional Information
[illegible]
PO#: [illegible]
WO#: [illegible]
[illegible]

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	Signature	Month	Day	Year
[illegible]	[signature]	10	3	14

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

17. Transporter Acknowledgment of Receipt of Materials

	Printed/Typed Name	Signature	Month	Day	Year
Transporter 1	Gonzalo Sanchez	[signature]	10	3	14
Transporter 2					

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.
[illegible]			

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	Signature	Month	Day	Year
[illegible]	[signature]	[illegible]	[illegible]	[illegible]

October 28, 2014

Subject: Jordan Ranch Property – Former Leaking Underground Storage Tank
Dublin, California

PERJURY STATEMENT

"I declare, that to the best of my knowledge at the present time, the information and/or recommendations contained in the attached document are true and correct."

Submitted by Responsible Party:

ROBERT RADANOVICH
BJP-ROF Jordan Ranch, LLC
5000 Hopyard Road, #170
Pleasanton, CA 94588