APPENDIX D

Preliminary Soil and Soil Gas Sampling Report and Phase II Environmental Site Assessment

Woo, Casey

From: Lew, Kelvin
Sent: Friday, June 14, 2013 4:21 PM
To: Wong, Gary
Cc: Sedlacek, Mark; Faeustle, George; Ledesma, Reynan; Woo, Casey
Subject: FW: Tyrone Property - Shallow Soil and Soil Gas Investigation Executive Summary
Attachments: Tables_prelim.pdf; Figures_prelim.pdf; Tyrone EXECSummary_Prelim.pdf

Gary:

Here is the Executive Summary (along with tables and figures). Preliminary conclusions and recommendations are provided.

We are still waiting for analytical results from sampling completed two days ago (June 12) in the former septic tank area. We do not anticipate the pending results to change the conclusions or recommendations.

We should be able to have the completed final report a week or so after the final lab results are in.

Kelvin.

EXECUTIVE SUMMARY

Alta Environmental (Alta) conducted a Surface Soil and Soil Gas Investigation for the Los Angeles Department of Water and Power (LADWP) on the former Quest Diagnostics property located at 7600 Tyrone Avenue, Van Nuys, California (the "Site). The Site is unoccupied and is listed for sale as a commercial/industrial property. The purpose of the investigation was to assess potential hazardous substance contamination at the Site prior to site acquisition. A Site Location Map is provided as Figure 1.

Site Description

The Site was an unoccupied bioscience laboratory prior to the investigation and consisted of nine buildings, parking areas, facility equipment, and chemical and hazardous material storage areas on the western and central section of the Site, and a vacant field containing an abandoned residential dwelling, bunny house, construction equipment, and construction material storage areas on the eastern portion of the Site. During field implementation of the investigation, the building structures on the Site were under active asbestos and lead-based paint abatement and demolition. Historical uses at the Site included agricultural activities up to 1965, when the initial building construction began at the Site. A Site Layout is provided as Figure 2.

Previous Investigations

Past environmental investigations at the Site included a Phase I Environmental Site Assessment (ESA) prepared for Quest Diagnostics, Inc. (ODIC, October 22, 2010), a Phase I ESA prepared for Shubin-Nadal Realty Investors (AMEC, October 22, 2012a), and a Screening Level Phase II Investigation prepared for Shubin-Nadal Realty Investors (AMEC, September 28, 2012b).

Based on the results of the Phase I ESAs (ODIC, 2010 and AMEC, 2012a) and Screening Level Phase II Investigation (AMEC, 2012b) the following conclusions were made:

The soil vapor data do not suggest a significant release has occurred at the site that would require mitigation for commercial development. Soil sample data suggest metals are not present at concentrations indicative of environmental impact and generally are consistent with typical background concentrations. The few low concentrations of volatile organic compounds (VOCs) and relatively low and heavier end hydrocarbons detected in shallow soil do not suggest significant impacts are present in the areas investigated (AMEC, 2012).

Based on information obtained from other properties in the general site vicinity of the Site, the anticipated depth to groundwater beneath the site is assumed to be between 200 and 250 feet bgs (RWQCB's online Geotracker database).

Environmental Concerns and Investigation Objectives

The primary objective of this investigation was to assess any subsurface impacts to the soil and soil gas at the Site from former use as a bioscience laboratory, historical structures, and former agricultural use.

Shallow Soil Matrix and Soil Gas Sampling

On May 28 and 29, 2013, a total of 30 shallow borings (B1 – B30) were drilled at the Site. All soil borings were continuously cored from surface to the terminus depth of 3 feet bgs using a direct-push drill rig. Soil matrix samples were collected from each boring at 1, 2, and 3 feet bgs using a core sampler lined with acetate sleeves. Soil boring locations are presented in Figure 3.

Following sample collection, the sample containers were properly capped, sealed, labeled, and stored in a chilled ice chest for transport under chain-of-custody documentation for analysis or archiving to LADWP's State of California-certified laboratory (Certificate No. 1207) located in Los Angeles, California. All soil samples designated for volatile analysis were preserved using in-field preservation kits in accordance with EPA Method 5035. The 1 and 3 foot samples from each boring were variously analyzed for Title 22 Metals by EPA Method 6010B, organochlorine pesticides (OCPs) by EPA Method 8081A, polychlorinated biphenyls (PCBs) by EPA Method 8082, total petroleum hydrocarbons (TPH) by EPA Method 8015M, semivolatile organic compounds (SVOCs) by EPA Method 8270C, and VOCs by EPA Method 8260B. The 2 foot samples collected from each boring were archived at the laboratory. The shallow soil sampling and analysis plan is presented as Table 1.

On May 30 and 31, 2013 soil vapor probes were installed at 15 boring locations (VP1 through VP15) at 5 and 15 feet bgs. On June 4 and 5, 2013, the soil vapor probes were sampled and analyzed by Jones Environmental, Inc.'s on-site mobile laboratory. Samples were not collected from vapor probes at VP4 and VP5 due to inaccessibility from stockpiled demolition debris. On June 12, 2013, soil vapor probes were installed in boring location VP16 in the vicinity of the former septic tank/cesspool at 5 and 15 feet bgs. Following probe installation and a minimum 2 hours of equilibration time, the vapor probes at VP16 were sampled using SUMMA® canisters and analyzed by the Jones Environmental fixed laboratory.

All soil vapor samples collected for this investigation were analyzed for VOCs by EPA Method 8260B by Jones Environmental Laboratory. The soil vapor samples included 28 primary samples, two (2) purge volume samples, and three (3) field replicates for a total of 33 soil vapor samples. The soil gas sampling and analysis plan is presented as Table 2. Soil Gas boring locations are presented in Figure 3.

Preliminary Findings

The following surface soil sample results are presented in milligrams per kilogram (mg/kg) and micrograms per kilogram (ug/kg) as identified in Tables 3 through 8. The following soil gas sample results are presented in micrograms per liter (ug/L) as identified in Table 9. All soil gas sample results were available and reviewed for the preparation of the following summary with the exception of sample results for VP16 (collected and submitted June 12, 2013), which are still pending.

- No VOCs or PCBs were detected in any of the surface soil samples submitted for analysis.
- Surface soil samples variously exhibited detected concentrations of:
  - Title 22 Metals including antimony (not detected above the laboratory reporting limit [ND] to 4.2J mg/kg), barium (99 to 300 mg/kg), cadmium (1.8J to 4.1 mg/kg), chromium (10 to 23 mg/kg), cobalt (7.8 to 21 mg/kg), copper (7.7J to 22 mg/kg), lead (6.7 to 42 mg/kg), molybdenum (ND to 0.5J), nickel (12.3 to 24 mg/kg), vanadium (19 to 38 mg/kg), zinc (36 to 124 mg/kg), and mercury (ND to 0.048 mg/kg). In addition, silver was detected in one sample (B22-1') at 7.4J mg/kg;
  - SVOCs including benzo(g,h,i)perylene (ND to 0.11J mg/kg), butyl benzyl phthalate (ND to 0.29J mg/kg), and indeno(1,2,3-cd)pyrene (ND to 0.17J mg/kg). In addition, dibenzo(a,h)antrhacene and pentachlorophenol were detected in one sample (B21-1') at 0.099J mg/kg and 0.39J mg/kg, respectively;
  - OCPs including 2,4-DDD (ND to 36 ug/kg), 2,4-DDT (ND to 190 ug/kg), 4,4-DDE (ND to 740 ug/kg), 4,4-DDT (ND to 270 ug/kg), beta-hexachlorocyclohexane (beta-BHC; ND to 42 ug/kg), and toxaphene (ND to 2,400 ug/kg); and
  - TPH as total extractable petroleum hydrocarbons (TEPH; ND to 60.6 mg/kg [as motor oil]);
- Soil gas samples exhibited detected concentrations of VOCs including carbon tetrachloride (ND to 0.035 ug/L), chloroform (ND to 0.896 ug/L), Freon 113 (ND to 2.82 ug/L), tetrachloroethylene (PCE; ND

to 0.059 ug/L), and trichloroethylene (TCE; ND to 2.89 ug/L). In addition, 1,1-dichloroethene (1,1-DCE) was detected in one sample (VP13-15') at a concentration of 0.118 ug/L.

Preliminary Conclusions

Based on the shallow soil sample results and the *available* soil gas sample results at the time of this summary:

- Concentrations of Title 22 Metals and SVOCs in soil are below the Environmental Protection Agency's (EPA, Region 9) Regional Screening Levels (RSLs) developed for a commercial/industrial scenario.
- Concentrations of OCPs in soil are below the Office of Environmental Health Hazard Assessment (OEHHA) and the CalEPA (OEHHA/CalEPA, 2010) residential and commercial/industrial California Human Health Screening Levels (CHHSLs), with the exception of toxaphene detected in one sample (B16-3'; 2,400 ug/kg), which exceeded the commercial/industrial CHHSL of 1,800 ug/kg.
- Concentrations of TPH detected in soil are below the Los Angeles California Regional Water Quality Control Board's (LARWQCB) maximum soil screening levels above drinking water aquifers greater than 150 feet bgs (LARWQCB, Table 4-1, May 1996) for TPH as gasoline (1,000 mg/kg), TPH as diesel (10,000 mg/kg), and TPH as motor oil (50,000 mg/kg).
- Concentrations of VOCs detected in soil gas are below the OEHHA/EPA (2010) CHHSLs for shallow soil gas (engineered fill) in a commercial/industrial land use scenario, for carbon tetrachloride (0.21 ug/L), PCE (1.6 ug/L), and TCE (4.4 ug/L). No CHHSLs are documented by Cal/EPA, OEHHA for the VOCs 1,1-DCE, Freon 113, and chloroform in soil gas.

It should be noted that the RSLs, CHHSLs, and Maximum Soil Screening Levels have been used as a general comparison, and are not regulatory standards and/or acceptable concentrations. These levels are used as benchmark values to determine whether further assessment and evaluation of the constituents detected in soil and soil gas, are required for the Site.

Preliminary Recommendations

Based on available analytical data, and the findings of this investigation, additional assessment work is not warranted at this time. However, any unknown subsurface structures or potentially contaminated soil encountered during site demolition and construction should be investigated for potential hazardous substances impacts to the property.

Additional assessment around sample location B16 at 3 feet bgs (B16-3') may be warranted in order to define the lateral and vertical extent of OCP (toxaphene) impacts in the area as necessary, and where disturbance of shallow soil in that area is anticipated during any site redevelopment activities.

These recommendations are preliminary. Updated or supplemental recommendations may be given, based on any additional information that becomes available (pending soil gas data). Once all the data has been reviewed by Alta Environmental, the LADWP will be provided with the final investigation report, which will include a finalized executive summary and recommendations.

TABLE 1
Surface Soil Sample and Analysis Plan
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Boring Nos.	Sample Rationale	Analytical Program
B1 – B12	Lead based paint from existing and historic structures.	Lead (6010B)
B13 – B20	Former agriculture activities.	Arsenic (6010B)
		OCPs (8081A)
B21 – B24	Various surface soil stains, equipment storage, and hazardous waste storage.	Metals (6010B/7471A)
		TPH Full Scan (8015M)
		SVOCs (8270C)
		PCBs (8082)
B25 – B28	Import soil	Metals (6010B/7471A)
		TPH Full Scan (8015M)
		VOCs (8260B)
		SVOCs (8270C)
		PCBs (8082)
B29 – B30	Railroad ties and saw dust piles.	TPH diesel/oil (8015M)
		SVOCs (8270C)

NOTES:
OCPs – Organochlorine Pesticides by EPA Method 8081A
PCBs – Polychlorinated Biphenyls by EPA Method 8082
VOCs – Volatile Organic Compounds by EPA Method 8260B
SVOCs – Semi Volatile Organic Compounds by EPA Method 8270C
Metals – Title 22 Metals by EPA Method 6010B/7471A
TPH Full Scan – Total Petroleum Hydrocarbons as gasoline, diesel, and oil by EPA Method 8015M
TPH diesel/oil – Total Petroleum Hydrocarbons as diesel and oil by EPA Method 8015M
Lead – Lead by EPA Method 6010B
Arsenic – Arsenic by EPA Method 6010B
bgs – below ground surface

TABLE 2
Soil Vapor Sampling and Analysis Plan
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Sample ID	Sample Depth (ft. bgs)	Surface Type	Sampling Method	Sample Rationale	Analytical Program
VP1	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Emergency generator location, east side of Building G	VOCs
	15				
VP2	5	Planter Area - Unpaved	Geoprobe/ Direct Push	Floor drain, along perimeter of Building F	VOCs
	15				
VP3	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Emergency generator, rinsing area, uncovered floor drain, potential location of "floor drain blank"	VOCs
	15				
VP4	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Former diesel generator	VOCs
	15				
VP5	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Miscelaneous storage area, unknown buckets of liquid	VOCs
	15				
VP6	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Former diesel generator and boilers	VOCs
	15				
VP7	5	Planter Area - Unpaved	Geoprobe/ Direct Push	Floor drains, along perimeter of Building C	VOCs
	15				
VP8	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Floor drains, along perimeter of Building C	VOCs
	15				
VP9	5	Planter Area - Unpaved	Geoprobe/ Direct Push	Second boring along perimeter of Building F	VOCs
	15				
VP10	5	Planter Area - Unpaved	Geoprobe/ Direct Push	One of two borings along perimeter of Building A; side of fume hoods	VOCs
	15				
VP11	5	Planter Area - Unpaved	Geoprobe/ Direct Push	Second of two borings along perimeter of Building A; side of fume hoods	VOCs
	15				
VP12	5	Planter Area - Unpaved	Geoprobe/ Direct Push	South side of Building D	VOCs
	15				
VP13	5	Planter Area - Unpaved	Geoprobe/ Direct Push	South side of Building E	VOCs
	15				
VP14	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Perimeter of Building G	VOCs
	15				
VP15	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Perimeter of Building G	VOCs
	15				
VP16	5	Unpaved	Geoprobe/ Direct Push	Vicinity of Former Septic Tank/Cesspool	VOCs
	15				

Notes:

VOCs analysis analyzed by EPA Method 8260B.
bgs – below ground surface

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TABLE 3
Shallow Soil Sample Results - Title 22 Metals
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Sample ID	Sample Date	Title 22 Metals by EPA Method 6010B/7471A (mg/kg)																
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
	MDL (mg/kg):	5.0	5.0	5.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.00002
	RL (mg/kg):	5.0	5.0	5.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.0001
RSLs* (mg/kg)	Resident	310	0.39	15,000	160	70	180,000**	23	3,100	400	390	1,500	390	390	1.6	390	23,000	10
	Comm./Indust	4,100	1.60	190,000	2,000	800	180,000**	300	41,000	800	5,100	20,000	5,100	5,100	20	5,200	310,000	43
B1-1'	5/28/2013	•	•	•	•	•	•	•	•	9.8	•	•	•	•	•	•	•	•
B1-3'	5/28/2013	•	•	•	•	•	•	•	•	12	•	•	•	•	•	•	•	•
B2-1'	5/28/2013	•	•	•	•	•	•	•	•	11	•	•	•	•	•	•	•	•
B2-3'	5/28/2013	•	•	•	•	•	•	•	•	15	•	•	•	•	•	•	•	•
B3-1'	5/28/2013	•	•	•	•	•	•	•	•	12	•	•	•	•	•	•	•	•
B3-3'	5/28/2013	•	•	•	•	•	•	•	•	12	•	•	•	•	•	•	•	•
B4-1'	5/28/2013	•	•	•	•	•	•	•	•	11	•	•	•	•	•	•	•	•
B4-3'	5/28/2013	•	•	•	•	•	•	•	•	12	•	•	•	•	•	•	•	•
B5-1'	5/28/2013	•	•	•	•	•	•	•	•	52	•	•	•	•	•	•	•	•
B5-3'	5/28/2013	•	•	•	•	•	•	•	•	11	•	•	•	•	•	•	•	•
B6-1'	5/28/2013	•	•	•	•	•	•	•	•	5.7	•	•	•	•	•	•	•	•
B6-3'	5/28/2013	•	•	•	•	•	•	•	•	10	•	•	•	•	•	•	•	•
B7-1'	5/28/2013	•	•	•	•	•	•	•	•	50	•	•	•	•	•	•	•	•
B7-3'	5/28/2013	•	•	•	•	•	•	•	•	15	•	•	•	•	•	•	•	•
B8-1'	5/28/2013	•	•	•	•	•	•	•	•	24	•	•	•	•	•	•	•	•
B8-3'	5/28/2013	•	•	•	•	•	•	•	•	72	•	•	•	•	•	•	•	•
B9-1'	5/28/2013	•	•	•	•	•	•	•	•	22	•	•	•	•	•	•	•	•
B9-3'	5/28/2013	•	•	•	•	•	•	•	•	14	•	•	•	•	•	•	•	•
B10-1'	5/28/2013	•	•	•	•	•	•	•	•	15	•	•	•	•	•	•	•	•
B10-3'	5/28/2013	•	•	•	•	•	•	•	•	15	•	•	•	•	•	•	•	•
B11-1'	5/28/2013	•	•	•	•	•	•	•	•	13	•	•	•	•	•	•	•	•
B11-3'	5/28/2013	•	•	•	•	•	•	•	•	17	•	•	•	•	•	•	•	•
B12-1'	5/28/2013	•	•	•	•	•	•	•	•	27	•	•	•	•	•	•	•	•
B12-3'	5/28/2013	•	•	•	•	•	•	•	•	15	•	•	•	•	•	•	•	•
B13-1'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B13-3'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B14-1'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B14-3'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B15-1'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B15-3'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B16-1'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B16-3'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B17-1'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B17-3'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B18-1'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B18-3'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B19-1'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B19-3'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B20-1'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B20-3'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B21-1'	5/28/2013	4.6J	ND	263	ND	3.4	22.5	17	22	18	ND	22	ND	ND	ND	42	77	0.024
B21-3'	5/28/2013	3.7J	ND	254	ND	3.0J	20	16	18	14	ND	24	ND	ND	ND	34	61	0.015
B22-1'	5/28/2013	2.9J	ND	170	ND	2.6J	18	10	15	48	ND	16	ND	7.4J	ND	26	191	0.042
B22-3'	5/28/2013	3.6J	ND	301	ND	2.4J	16.4	14	15	11	ND	18	ND	ND	ND	28	48	0.013

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TABLE 3
Shallow Soil Sample Results - Title 22 Metals
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Sample ID	Sample Date	Title 22 Metals by EPA Method 6010B/7471A (mg/kg)																
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
	MDL (mg/kg):	5.0	5.0	5.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.00002
	RL (mg/kg):	5.0	5.0	5.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.0001
RSLs* (mg/kg):	Resident.	310	0.39	15,000	160	70	180,000**	23	3,100	400	390	1,500	390	390	1.6	390	23,000	10
	Comm./Indust.	4,100	1.60	190,000	2,000	800	180,000**	300	41,000	800	5,100	20,000	5,100	5,100	20	5,200	310,000	43
B23-1'	5/29/2013	3.3J	ND	218	ND	3.3	20	15	21	39	ND	20	ND	ND	ND	31	124	0.048
B23-3'	5/29/2013	4.0J	ND	300	ND	4	23	20	22	15	ND	24	ND	ND	ND	38	79	0.021
B24-1'	5/29/2013	3.3J	ND	205	ND	3.2	19	16	18	42	ND	20	ND	ND	ND	30	93	0.024
B24-3'	5/29/2013	4.2J	ND	296	ND	4.1	23	21	22	15	ND	24	ND	ND	ND	37	78	0.023
B25-1'	5/28/2013	3.3J	ND	194	ND	2.42J	16.4	13.5	13.5	10.5	ND	16.6	ND	ND	ND	28	48	0.009
B25-3'	5/28/2013	4.2J	ND	281	ND	3.0J	23	16	19	13	ND	24	ND	ND	ND	37	60	0.013
B26-1'	5/28/2013	1.3J	ND	61	ND	1.1J	7.8	5.5	11.6	6	ND	9.3	ND	ND	ND	18	26	0.021
B26-3'	5/28/2013	3.1J	ND	195	ND	2.9J	18	15	13	11	ND	20	ND	ND	ND	31	56	0.0.12
B27-1'	5/29/2013	2.7J	ND	190	ND	3.1	18	14	14	12	0.50J	20	ND	ND	ND	30	59	0.020
B27-3'	5/29/2013	3.8J	ND	256	ND	3.6	23	18	20	14	ND	23	ND	ND	ND	35	74	0.020
B28-1'	5/29/2013	2.0J	ND	99	ND	1.8J	10	7.8	7.7J	6.7	0.44J	12.3	ND	ND	ND	19	36	0.0093
B28-3'	5/29/2013	4.0J	ND	263	ND	3.7	22	19	21	18	ND	22	ND	ND	ND	35	78	0.019

NOTES:
mg/kg = milligrams per kilogram
ND = Not Detected; below MDL
MDL = Method Detection Limit
RL = Reporting Limit
J = Concentration above the MDL and below the RL
- = Not Analyzed
*EPA Region 9 Regioanl Screenig Levels (RSLs) for residential and commercial settings
**No RSL information available; Protection of groundwater Soil Screening Level (SSL) based on maxiumum contaminant level (MCL) provided for reference

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TABLE 4
Shallow Soil Sample Results - OCPs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

OCPs by EPA Method 8081A	CHHSLs* (µg/kg)				Sample ID:	B13-1'	B13-3'	B14-1'	B14-3'	B15-1'	B15-3'	B16-1'	B16-3'
					Date:	5/29/2013	5/29/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013
	Resident.	Comm./ Indust.	MDL	MRL	OCP Concentraiton (µg/kg)								
2,4'-DDD	2,300	9,000	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
2,4'-DDE	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
2,4'-DDT	1,600	6,300	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	**190**
4,4'-DDD	—	—	4.0 - 4.8	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	1,600	6,300	6.3 - 7.7	21 - 25	**40**	ND	ND	ND	ND	**15**	ND	**740**
4,4'-DDT	1,600	6,300	4.5 - 5.5	21 - 25	**10**	ND	ND	ND	ND	**7.8**	ND	**270**
Aldrin	—	—	9.5 - 12	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	—	—	11 - 15	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	NA	NA	6.5 - 7.9	21 - 25	ND	ND	ND	ND	ND	ND	ND	**37**
Chlordane (tech)	—	—	84 - 100	410 - 500	ND	ND	ND	ND	ND	ND	ND	ND
cis-Nonachlor	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
DCPA	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	—	—	4.7 - 5.7	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	—	—	6.2 - 7.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	—	—	4.7 - 5.7	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	—	—	2.6 - 3.2	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	—	—	4.4 - 5.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	—	—	5.8 - 7.0	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	—	—	3.8 - 4.6	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	—	—	8.2 - 10	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	—	—	11 - 14	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	—	—	7.5 - 9.1	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Kepone	—	—	180 - 220	410 - 500	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	—	—	4.5 - 5.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	—	—	6.4 - 7.8	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Oxychlordane	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	460	1,800	71 - 85	620 - 750	ND	ND	ND	ND	ND	ND	ND	**2,400**
trans-Nonachlor	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
OCPs = Organochlorine Pesticides
MDL = Method Detection Limit
MRL = Method Reporting Limit
µg/kg = micrograms per kilogram
ND = Not detected at or above the MDL
NA = Information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of OCPs

**Indicates concentration exeeds the commercial/industrial CHHSL

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ALTA ENVIRONMENTAL

TABLE 4
Shallow Soil Sample Results - OCPs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

OCPs by EPA Method 8081A	CHHSLs* (µg/kg)				Sample ID:	B18-1'	B18-3'	B19-1'	B19-3'	B20-1'	B20-3'	B23-1'	B23-3'
					Date:	5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013
	Resident.	Comm./ Indust.	MDL	MRL	OCP Concentraiton (µg/kg)								
2,4'-DDD	**2,300**	**9,000**	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	**36**
2,4'-DDE	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
2,4'-DDT	**1,600**	**6,300**	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	**94**
4,4'-DDD	—	—	4.0 - 4.8	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	**1,600**	**6,300**	6.3 - 7.7	21 - 25	ND	ND	ND	ND	ND	ND	ND	**440**
4,4'-DDT	**1,600**	**6,300**	4.5 - 5.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	**260**
Aldrin	—	—	9.5 - 12	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	—	—	11 - 15	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	**NA**	**NA**	6.5 - 7.9	21 - 25	ND	ND	ND	ND	ND	ND	ND	**42**
Chlordane (tech)	—	—	84 - 100	410 - 500	ND	ND	ND	ND	ND	ND	ND	ND
cis-Nonachlor	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
DCPA	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	—	—	4.7 - 5.7	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	—	—	6.2 - 7.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	—	—	4.7 - 5.7	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	—	—	2.6 - 3.2	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	—	—	4.4 - 5.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	—	—	5.8 - 7.0	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	—	—	3.8 - 4.6	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	—	—	8.2 - 10	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	—	—	11 - 14	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	—	—	7.5 - 9.1	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Kepone	—	—	180 - 220	410 - 500	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	—	—	4.5 - 5.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	—	—	6.4 - 7.8	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Oxychlordane	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	**460**	**1,800**	71 - 85	620 - 750	ND	ND	ND	ND	ND	ND	ND	**1,500**
trans-Nonachlor	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
OCPs = Organochlorine Pesticides
MDL = Method Detection Limit
MRL = Method Reporting Limit
µg/kg = micrograms per kilogram
ND = Not detected at or above the MDL
NA = Information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of OCPs

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TABLE 5
Shallow Soil Sample Results - PCBs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Sample ID	Sample Date	PCBs by EPA Method 8082 (mg/kg)					
		PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260
	MDL (mg/kg):	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**	**0.07**
	PQL (mg/kg):	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**	**0.2**
B23-1'	5/29/2013	ND	ND	ND	ND	ND	ND
B23-3'	5/29/2013	ND	ND	ND	ND	ND	ND
B24-1'	5/28/2013	ND	ND	ND	ND	ND	ND
B24-3'	5/28/2013	ND	ND	ND	ND	ND	ND
B25-1'	5/28/2013	ND	ND	ND	ND	ND	ND
B25-3'	5/28/2013	ND	ND	ND	ND	ND	ND
B26-1'	5/28/2013	ND	ND	ND	ND	ND	ND
B26-3'	5/28/2013	ND	ND	ND	ND	ND	ND
B27-1'	5/29/2013	ND	ND	ND	ND	ND	ND
B27-3'	5/29/2013	ND	ND	ND	ND	ND	ND
B28-1'	5/29/2013	ND	ND	ND	ND	ND	ND
B28-3'	5/29/2013	ND	ND	ND	ND	ND	ND

NOTES:
PCB = Polychlorinated Biphenyls
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
mg/kg = milligrams per kilogram
ND = Indicates constituents not detected; below MDL

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TABLE 6
Shallow Soil Sample Results - TPH
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Sample ID	Sample Date	TPH by EPA Method 8015M (mg/kg)			
		TEPH (C9-C36)	GRO (C4-C12)	DRO (C10-28)	Motor Oil (C29-C36)
MDL (mg/kg):		**4**	**1.1**	**29**	**35**
PQL (mg/kg):		**20**	**5.5**	**145**	**175**
B21-1'	05/28/13	**12.6J**	ND	ND	ND
B21-3'	05/28/13	ND	ND	ND	ND
B22-1'	05/28/13	**12.6J**	ND	ND	ND
B22-3'	05/28/13	ND	ND	ND	ND
B23-1'	05/29/13	ND	ND	ND	ND
B23-3'	05/29/13	**4.2J**	ND	ND	ND
B24-1'	05/29/13	**60.6**	ND	ND	**60.6J**
B24-3'	05/29/13	**4.4J**	ND	ND	ND
B25-1'	05/28/13	**12.5J**	ND	ND	ND
B25-3'	05/28/13	ND	ND	ND	ND
B26-1'	05/28/13	**4.4J**	ND	ND	ND
B26-3'	05/28/13	ND	ND	ND	ND
B27-1'	05/29/13	**4.0J**	ND	ND	ND
B27-3'	05/29/13	**13.1J**	ND	ND	ND
B28-1'	05/29/13	ND	ND	ND	ND
B28-3'	05/29/13	ND	ND	ND	ND
B29-1'	05/28/13	**12.6J**	ND	ND	ND
B29-3'	05/28/13	**4.1J**	ND	ND	ND
B30-1'	05/28/13	**12.7J**	ND	ND	ND
B30-3'	05/28/13	**12.4J**	ND	ND	ND
Maximum Soil Screening Levels* (mg/kg):		**—**	**1,000**	**10,000**	**50,000**

NOTES:
ND = Indicates constituents not detected; below MDL
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Concentration above the MDL but below the PQL
TEPH = total extractable petroleum hydrocarbons
TPH = total petroleum hydrocarbons
GRO = gasoline range organics
DRO = diesel range organics
mg/kg = milligrams per kilogram
— = information not available
* The LARWQCB Maximum Soil Screening Levels are are provided for TPH in soil above drinking water aquifers greater than 150 bgs (LARWQCB Table 4-1, May 1996)

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TABLE 7
Shallow Soil Sample Results - SVOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

SVOCs by EPA Method 8270C	RSLs Soil (mg/kg)		Sample ID		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Comm./	Date		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Residential	Indust.	MDL	MRL	SVOC Concentration (mg/kg)				
1,2,4-Trichlorobenzene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
1,3-Dichforobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,6-Trichloropheno/	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dichlorophenol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dimethylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dinitrophenol	—	—	3.4 - 3.8	22 - 25	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chloronaphthalene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chlorophenol	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylnaphthalene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitrophenol	—	—	0.19 - 0.22	0.44 - 0.50	ND	ND	ND	ND	ND
3 & 4Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	—	—	1.3 - 1.5	2.2 - 2.5	ND	ND	ND	ND	ND
3-Nitroaniline	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	—	—	1.4 - 1.5	4.4 - 5.0	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitrophenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthylene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Aniline	—	—	0.2 - 0.23	0.44 - 0.50	ND	ND	ND	ND	ND
Anthracene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Azobenzene/1,2-Diphenylhydrazine	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Benzidine	—	—	1.1 - 1.3	4.4 - 5.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(a)pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	NA	0.053 - 0.060	0.88 - 1.0	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Benzoic acid	—	—	1.7 - 1.9	22 - 25	ND	ND	ND	ND	ND
Benzyl alcohol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Butyl benzyl phthalate	260	910	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Carbazole	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Chrysene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.015	0.21	0.044 - 0.050	0.88 - 1.0	0.099J	ND	ND	ND	ND
Dibenzofuran	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Diethyl phthalate	—	—	0.053 - 0.060	0.44 - 0.50	ND	ND	ND	ND	ND
Dimethyl phthalate	—	—	0.78 - 0.88	2.2 - 2.5	ND	ND	ND	ND	ND
Di-n-butyl phthalate	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Di-n-octyl phthalate	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Fluoranthene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Fluorene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorocydopentadiene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachloroethane	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.15	2.1	0.080 - 0.090	0.88 - 1.0	0.15J	ND	ND	ND	ND
Isophorone	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Naphthalene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Nitrobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Pentachlorophenol	0.89	2.7	0.14 - 0.16	0.44 - 0.50	0.39J	ND	ND	ND	ND
Phenanthrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Phenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Pyridine	—	—	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND

NOTES:
SVOC = Semivolatile Organic Compound
MDL = Method Detection Limit
MRL = Method Reporting Limit
ND = indicated constituents not detected; below method detection limit
mg/kg = milligrams per kilogram
J = Analyte detected. However, concentration is an estimated value, between the MDL and the MRL.
RSLs = Regional Screening Levels
NA = Information not available
— = Not applicable
*EPA Region 9 Regioanl Screenig Levels (RSLs) for residential and commercial settings, information provided for detected concentrations of SVOCs

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TABLE 7
Shallow Soil Sample Results - SVOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

SVOCs by EPA Method 8270C	RSLs Soil* (mg/kg)		Sample ID		[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Comm./		Date	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Resident.	Indust.	MDL	MRL	SVOC Concentration (mg/kg)				
1,2,4-Trichlorobenzene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
1,3-Dichforobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dichlorophenol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dimethylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dinitrophenol	—	—	3.4 - 3.8	22 - 25	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chloronaphthalene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chlorophenol	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylnaphthalene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitrophenol	—	—	0.19 - 0.22	0.44 - 0.50	ND	ND	ND	ND	ND
3 & 4Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	—	—	1.3 - 1.5	2.2 - 2.5	ND	ND	ND	ND	ND
3-Nitroaniline	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	—	—	1.4 - 1.5	4.4 - 5.0	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitrophenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthylene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Aniline	—	—	0.2 - 0.23	0.44 - 0.50	ND	ND	ND	ND	ND
Anthracene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Azobenzene/1,2-Diphenylhydrazine	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Benzidine	—	—	1.1 - 1.3	4.4 - 5.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(a)pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	NA	0.053 - 0.060	0.88 - 1.0	ND	ND	ND	0.11J	ND
Benzo(k)fluoranthene	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Benzoic acid	—	—	1.7 - 1.9	22 - 25	ND	ND	ND	ND	ND
Benzyl alcohol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Butyl benzyl phthalate	260	910	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	0.28J	ND
Carbazole	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Chrysene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.015	0.21	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND
Dibenzofuran	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Diethyl phthalate	—	—	0.053 - 0.060	0.44 - 0.50	ND	ND	ND	ND	ND
Dimethyl phthalate	—	—	0.78 - 0.88	2.2 - 2.5	ND	ND	ND	ND	ND
Di-n-butyl phthalate	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Di-n-octyl phthalate	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Fluoranthene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Fluorene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorocydopentadiene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachloroethane	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.15	2.1	0.080 - 0.090	0.88 - 1.0	ND	ND	ND	0.15J	ND
Isophorone	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Naphthalene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Nitrobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Pentachlorophenol	0.89	2.7	0.14 - 0.16	0.44 - 0.50	ND	ND	ND	ND	ND
Phenanthrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Phenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Pyridine	—	—	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND

NOTES:

SVOC = Semivolatile Organic Compound

MDL = Method Detection Limit

MRL = Method Reporting Limit

ND = Indicated constituents not detected; below method detection limit

mg/kg = milligrams per kilogram

J = Analyte detected. However, concentration is an estimated value, between the MDL and the MRL

RSLs = Regional Screening Levels

NA = Information not available

— = Not applicable

*EPA Region 9 Regioanl Screenig Levels (RSLs) for residential and commercial settings, information provided for detected concentrations of SVOCs

PRELIMINARY

ALTA ENVIRONMENTAL

TABLE 7
Shallow Soil Sample Results - SVOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

SVOCs by EPA Method 8270C	RSLs Soil* (mg/kg) Residential	RSLs Soil* (mg/kg) Comm/Indust.	Sample ID / Date: MDL	MRL	B26-1 5/28/2010	B26-3 5/28/2010	B27-1 5/28/2010	B27-3 5/28/2010	B28-1 5/28/2010
					SVOC Concentration (mg/kg)				
1,2,4-Trichlorobenzene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
1,3-Dichforobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,6-Trichloropheno/	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dichlorophenol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dimethylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dinitrophenol	—	—	3.4 - 3.8	22 - 25	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chloronaphthalene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chlorophenol	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylnaphthalene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitrophenol	—	—	0.19 - 0.22	0.44 - 0.50	ND	ND	ND	ND	ND
3 & 4Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	—	—	1.3 - 1.5	2.2 - 2.5	ND	ND	ND	ND	ND
3-Nitroaniline	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	—	—	1.4 - 1.5	4.4 - 5.0	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitrophenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthylene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Aniline	—	—	0.2 - 0.23	0.44 - 0.50	ND	ND	ND	ND	ND
Anthracene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Azobenzene/1,2-Diphenylhydrazine	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Benzidine	—	—	1.1 - 1.3	4.4 - 5.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(a)pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	NA	0.053 - 0.060	0.88 - 1.0	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Benzoic acid	—	—	1.7 - 1.9	22 - 25	ND	ND	ND	ND	ND
Benzyl alcohol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Butyl benzyl phthalate	260	910	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Carbazole	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Chrysene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.015	0.21	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND
Dibenzofuran	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Diethyl phthalate	—	—	0.053 - 0.060	0.44 - 0.50	ND	ND	ND	ND	ND
Dimethyl phthalate	—	—	0.78 - 0.88	2.2 - 2.5	ND	ND	ND	ND	ND
Di-n-butyl phthalate	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Di-n-octyl phthalate	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Fluoranthene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Fluorene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorocydopentadiene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachloroethane	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.15	2.1	0.080 - 0.090	0.88 - 1.0	ND	ND	ND	ND	ND
Isophorone	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Naphthalene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Nitrobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Pentachlorophenol	0.89	2.7	0.14 - 0.16	0.44 - 0.50	ND	ND	ND	ND	ND
Phenanthrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Phenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Pyridine	—	—	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND

NOTES:
SVOC = Semivolatile Organic Compound
MDL = Method Detection Limit
MRL = Method Reporting Limit
ND = Indicated constituents not detected; below method detection limit
mg/kg = milligrams per kilogram
J = Analyte detected, However, concentration is an estimated value, between the MDL and the MRL
RSLs = Regional Screening Levels
NA = Information not available
— = Not applicable
*EPA Region 9 Regioanl Screenig Levels (RSLs) for residential and commercial settings, information provided for detected concentrations of SVOCs

PRELIMINARY

ALTA ENVIRONMENTAL

TABLE 7
Shallow Soil Sample Results - SVOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

SVOCs by EPA Method 8270C	RSLs - Soil (mg/kg) Residential	Commercial Industrial	Sample ID# Date MDL	MRL	SVOC Concentration (mg/kg)				
1,2,4-Trichlorobenzene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
1,3-Dichforobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dichlorophenol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dimethylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dinitrophenol	—	—	3.4 - 3.8	22 - 25	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chloronaphthalene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chlorophenol	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylnaphthalene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitrophenol	—	—	0.19 - 0.22	0.44 - 0.50	ND	ND	ND	ND	ND
3 & 4Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	—	—	1.3 - 1.5	2.2 - 2.5	ND	ND	ND	ND	ND
3-Nitroaniline	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	—	—	1.4 - 1.5	4.4 - 5.0	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitrophenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthylene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Aniline	—	—	0.2 - 0.23	0.44 - 0.50	ND	ND	ND	ND	ND
Anthracene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Azobenzene/1,2-Diphenylhydrazine	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Benzidine	—	—	1.1 - 1.3	4.4 - 5.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(a)pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	NA	0.053 - 0.060	0.88 - 1.0	ND	0.12J	ND	ND	ND
Benzo(k)fluoranthene	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Benzoic acid	—	—	1.7 - 1.9	22 - 25	ND	ND	ND	ND	ND
Benzyl alcohol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Butyl benzyl phthalate	260	910	0.13 - 0.15	0.44 - 0.50	0.29J	ND	ND	ND	ND
Carbazole	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Chrysene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.015	0.21	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND
Dibenzofuran	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Diethyl phthalate	—	—	0.053 - 0.060	0.44 - 0.50	ND	ND	ND	ND	ND
Dimethyl phthalate	—	—	0.78 - 0.88	2.2 - 2.5	ND	ND	ND	ND	ND
Di-n-butyl phthalate	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Di-n-octyl phthalate	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Fluoranthene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Fluorene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorocydopentadiene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachloroethane	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.15	2.1	0.080 - 0.090	0.88 - 1.0	ND	0.17J	ND	ND	ND
Isophorone	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Naphthalene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Nitrobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Pentachlorophenol	0.89	2.7	0.14 - 0.16	0.44 - 0.50	ND	ND	ND	ND	ND
Phenanthrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Phenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Pyridine	—	—	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND

NOTES:
SVOC = Semivolatile Organic Compound
MDL = Method Detection Limit
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ND = Indicated constituents not detected; below method detection limit
mg/kg = milligrams per kilogram
J = Analyte detected. However, concentration is an estimated value, between the MDL and the MRL
RSLs = Regional Screening Levels
NA = Information not available
— = Not applicable
*EPA Region 9 Regional Screenig Levels (RSLs) for residential and commercial settings, information provided for detected concentrations of SVOCs

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TABLE 6
Shallow Soil Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs per EPA Method 8260B	Sample ID		SB-1	SB-2	SB-3	SB-4
	Date		4/24/2018	4/24/2018	4/24/2018	4/24/2018
	MDL	PQL	VOC Concentration (µg/kg)			
Acetone	32	160	ND	ND	ND	ND
tert-Amyl methyl ether (TAME)	23	115	ND	ND	ND	ND
Benzene	26	130	ND	ND	ND	ND
Bromobenzene	26	130	ND	ND	ND	ND
Bromochloromethane	24	120	ND	ND	ND	ND
Bromodichloramethane	22	110	ND	ND	ND	ND
Bromoform	23	115	ND	ND	ND	ND
Bromomethane	20	100	ND	ND	ND	ND
Methyl ethyl ketone (MEK)	26	130	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	373	1865	ND	ND	ND	ND
Butylbenzene	29	145	ND	ND	ND	ND
sec-Butylbenzene	27	135	ND	ND	ND	ND
tert-Butylbenzene	29	145	ND	ND	ND	ND
tert-Butyl ethyl ether (ETBE)	20	100	ND	ND	ND	ND
Carbon disulfide	116	580	ND	ND	ND	ND
Carbon Tetrachloride	32	160	ND	ND	ND	ND
Chlorobenzene	28	140	ND	ND	ND	ND
Chloroethane	42	210	ND	ND	ND	ND
2-Chloroethyl vinyl ether	23	115	ND	ND	ND	ND
Chloroform	30	150	ND	ND	ND	ND
Chloromethane	70	350	ND	ND	ND	ND
2-Chlorotoluene	27	135	ND	ND	ND	ND
4-ChlorotoJuene	28	140	ND	ND	ND	ND
Dibromochloromethane	25	125	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	31	155	ND	ND	ND	ND
1,2-Dibromoethane	23	115	ND	ND	ND	ND
Dibromomethane	33	165	ND	ND	ND	ND
1,2-Dichlorobenzene	27	135	ND	ND	ND	ND
1,3-Dichlorobenzene	27	135	ND	ND	ND	ND
1,4-Dichlorobenzene	33	165	ND	ND	ND	ND
Dichlorodifluoromethane	37	185	ND	ND	ND	ND
1,1-Dichloroethane	29	145	ND	ND	ND	ND
1,2-Dichloroethane	22	110	ND	ND	ND	ND
1,1-Dichloroethene	28	140	ND	ND	ND	ND
cis-1,2-Dichloroethene	26	130	ND	ND	ND	ND
trans-1,2-Dichloroethene	32	160	ND	ND	ND	ND
1,2-Dichloropropane	22	110	ND	ND	ND	ND
1,3-Dichloropropane	21	105	ND	ND	ND	ND
2,2-Dichloropropane	38	190	ND	ND	ND	ND
1,1-Dichloropropene	27	135	ND	ND	ND	ND
cis-1,3-Dichloropropene	26	130	ND	ND	ND	ND
trans-1,3-Dichloropropene	29	145	ND	ND	ND	ND
Diisopropyl ether (DIPE)	26	130	ND	ND	ND	ND
Ethylbenzene	30	150	ND	ND	ND	ND
Hexachlorobutadiene	44	220	ND	ND	ND	ND
2-Hexanone	21	105	ND	ND	ND	ND
Isopropylbenzene	33	165	ND	ND	ND	ND
p-Isopropyltoluene	28	140	ND	ND	ND	ND
Methyl-t-butyl ether (MTBE)	23	115	ND	ND	ND	ND
Methylene chloride	31	155	ND	ND	ND	ND
Iodomethane	20	100	ND	ND	ND	ND
Methyl isobutyl ketone (MIBK)	19	95	ND	ND	ND	ND
Naphthalene	30	150	ND	ND	ND	ND
Propylbenzene	30	150	ND	ND	ND	ND
Styrene	33	165	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	23	115	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	40	200	ND	ND	ND	ND
Tetrachloroethylene (PCE)	27	135	ND	ND	ND	ND
Toluene	25	125	ND	ND	ND	ND
1,2,3-Trichlorobenzene	29	145	ND	ND	ND	ND
1,2,4-Trichlorobenzene	31	155	ND	ND	ND	ND
1,1,1-Trichloroethane	26	130	ND	ND	ND	ND
1,1,2-Trichloroethane	23	115	ND	ND	ND	ND
Trichloroethylene (TCE)	24	120	ND	ND	ND	ND
Trichlorofluoromethane	35	175	ND	ND	ND	ND
1,2,3-Trichloropropane	22	110	ND	ND	ND	ND
1,2,4-Trimethylbenzene	25	125	ND	ND	ND	ND
1,3,5-Trimethylbenzene	28	140	ND	ND	ND	ND
Vinyl acetate	52	260	ND	ND	ND	ND
Vinyl Chloride (Chloroethene)	36	180	ND	ND	ND	ND
m & p-Xylene	75	375	ND	ND	ND	ND
o-Xylene	28	140	ND	ND	ND	ND

NOTES:
VOC = Volatile Organic Compound
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
ND = Indicated constituents not detected; below method detection limit
µg/kg = micrograms per kilogram

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TABLE 6
Shallow Soil Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs by EPA Method 8260B		Sample ID	[illegible]	[illegible]	[illegible]	[illegible]
		Date	[illegible]	[illegible]	[illegible]	[illegible]
	MDL	PQL	VOC Concentration (µg/kg)			
Acetone	32	160	ND	ND	ND	ND
tert-Amyl methyl ether (TAME)	23	115	ND	ND	ND	ND
Benzene	26	130	ND	ND	ND	ND
Bromobenzene	26	130	ND	ND	ND	ND
Bromochloromethane	24	120	ND	ND	ND	ND
Bromodichloramethane	22	110	ND	ND	ND	ND
Bromoform	23	115	ND	ND	ND	ND
Bromomethane	20	100	ND	ND	ND	ND
Methyl ethyl ketone (MEK)	26	130	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	373	1865	ND	ND	ND	ND
Butylbenzene	29	145	ND	ND	ND	ND
sec-Butylbenzene	27	135	ND	ND	ND	ND
tert-Butylbenzene	29	145	ND	ND	ND	ND
tert-Butyl ethyl ether (ETBE)	20	100	ND	ND	ND	ND
Carbon disulfide	116	580	ND	ND	ND	ND
Carbon Tetrachloride	32	160	ND	ND	ND	ND
Chlorobenzene	28	140	ND	ND	ND	ND
Chloroethane	42	210	ND	ND	ND	ND
2-Chloroethyl vinyl ether	23	115	ND	ND	ND	ND
Chloroform	30	150	ND	ND	ND	ND
Chloromethane	70	350	ND	ND	ND	ND
2-Chlorotoluene	27	135	ND	ND	ND	ND
4-ChlorotoJuene	28	140	ND	ND	ND	ND
Dibromochloromethane	25	125	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	31	155	ND	ND	ND	ND
1,2-Dibromoethane	23	115	ND	ND	ND	ND
Dibromomethane	33	165	ND	ND	ND	ND
1,2-Dichlorobenzene	27	135	ND	ND	ND	ND
1,3-Dichlorobenzene	27	135	ND	ND	ND	ND
1 A-Dichlorobenzene	33	165	ND	ND	ND	ND
Dichlorodifluoromethane	37	185	ND	ND	ND	ND
1,1-Dichloroethane	29	145	ND	ND	ND	ND
1,2-Dichloroethane	22	110	ND	ND	ND	ND
1,1-Dichloroethene	28	140	ND	ND	ND	ND
cis-1,2-Dichloroethene	26	130	ND	ND	ND	ND
trans-1,2-Dichloroethene	32	160	ND	ND	ND	ND
1,2-Dichloropropane	22	110	ND	ND	ND	ND
1,3-Dichloropropane	21	105	ND	ND	ND	ND
2,2-Dichloropropane	38	190	ND	ND	ND	ND
1,1-Dichloropropene	27	135	ND	ND	ND	ND
cis-1,3-Dichloropropene	26	130	ND	ND	ND	ND
trans-1,3-Dichloropropene	29	145	ND	ND	ND	ND
Diisopropyl ether (DIPE)	26	130	ND	ND	ND	ND
Ethylbenzene	30	150	ND	ND	ND	ND
Hexachlorobutadiene	44	220	ND	ND	ND	ND
2-Hexanone	21	105	ND	ND	ND	ND
Isopropylbenzene	33	165	ND	ND	ND	ND
p-Isopropyltoluene	28	140	ND	ND	ND	ND
Methyl-t-butyl ether (MTBE)	23	115	ND	ND	ND	ND
Methylene chloride	31	155	ND	ND	ND	ND
Iodomethane	20	100	ND	ND	ND	ND
Methyl isobutyl ketone (MIBK)	19	95	ND	ND	ND	ND
Naphthalene	30	150	ND	ND	ND	ND
Propylbenzene	30	150	ND	ND	ND	ND
Styrene	33	165	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	23	115	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	40	200	ND	ND	ND	ND
Tetrachloroethylene (PCE)	27	135	ND	ND	ND	ND
Toluene	25	125	ND	ND	ND	ND
1,2,3-Trichlorobenzene	29	145	ND	ND	ND	ND
1,2,4-Trichlorobenzene	31	155	ND	ND	ND	ND
1,1,1-Trichloroethane	26	130	ND	ND	ND	ND
1,1,2-Trichloroethane	23	115	ND	ND	ND	ND
Trichloroethylene (TCE)	24	120	ND	ND	ND	ND
Trichlorofluoromethane	35	175	ND	ND	ND	ND
1,2,3-Trichloropropane	22	110	ND	ND	ND	ND
1,2,4-Trimethylbenzene	25	125	ND	ND	ND	ND
1,3,5-Trimethylbenzene	28	140	ND	ND	ND	ND
Vinyl acetate	52	260	ND	ND	ND	ND
Vinyl Chloride (Chloroethene)	36	180	ND	ND	ND	ND
m & p-Xylene	75	375	ND	ND	ND	ND
o-Xylene	28	140	ND	ND	ND	ND

NOTES:
VOC = Volatile Organic Compound
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
ND = Indicated constituents not detected; below method detection limit
µg/kg = micrograms per kilogram

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TABLE 9
Soil Vapor Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Volatile Organic Compounds (VOCs) EPA Method 8260B	CHHSLs* (µg/L)		Sample ID:	VP1-5	VP1-5_	VP2-5	VP2-10	VP3-5	VP3-10	VP3-10	VP3-10
	Residential	Comm/ Indust.	Date:	5/7/2018	5/7/2018	5/7/2018	5/7/2018	5/4/2018	5/4/2018	5/4/2018	5/4/2018
			PQL	VOC Concentrations (µg/L)							
Benzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.063	0.21	0.008	ND	ND	ND	ND	ND	0.033	0.014	0.029
Chlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	NA	NA	0.008	ND	ND	ND	ND	0.316	0.896	0.81	0.872
Chloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2- Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	NA	NA	0.008	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NA	NA	0.008	2.82	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.47	1.6	0.008	ND	ND	ND	ND	0.059	0.057	0.048	0.054
Toluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	1.3	4.4	0.008	ND	ND	ND	ND	2.26	2.83	2.55	2.89
Trichlorofluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tert-butylether	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropylether	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-amylmethylether	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylalcohol	—	—	0.040	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
VOC = Volatile Organic Compound
PQLs = Practical Quantitation Limits
ND = Not Detected Above the PQL
P = Purge Volume
REP = replicate
µg/L = micrograms per liter
NA = information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of VOCs

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ALTA ENVIRONMENTAL

TABLE 9
Soil Vapor Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs by EPA Method 8260B	CHHSLs* (µg/L)		Sample ID	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			Date	(NA)	(NA)	(NA)	(NA)	[illegible]	[illegible]	[illegible]	[illegible]
	Residential	Commercial/ Industrial	PQL	VOC Concentrations (µg/L)							
Benzene	—	—	0.008	NO SAMPLE COLLECTED - PROBE LOCATION INACCESSIBLE	NO SAMPLE COLLECTED - PROBE LOCATION INACCESSIBLE	NO SAMPLE COLLECTED - PROBE LOCATION INACCESSIBLE	NO SAMPLE COLLECTED - PROBE LOCATION INACCESSIBLE	ND	ND	ND	ND
Bromobenzene	—	—	0.008					ND	ND	ND	ND
Bromodichloromethane	—	—	0.008					ND	ND	ND	ND
Bromoform	—	—	0.008					ND	ND	ND	ND
n-Butylbenzene	—	—	0.008					ND	ND	ND	ND
sec-Butylbenzene	—	—	0.008					ND	ND	ND	ND
tert-Butylbenzene	—	—	0.008					ND	ND	ND	ND
Carbon tetrachloride	**0.063**	**0.21**	0.008					ND	ND	ND	**0.035**
Chlorobenzene	—	—	0.008					ND	ND	ND	ND
Chloroethane	—	—	0.008					ND	ND	ND	ND
Chloroform	**NA**	**NA**	0.008					ND	**0.046**	**0.022**	**0.363**
Chloromethane	—	—	0.008					ND	ND	ND	ND
2-Chlorotoluene	—	—	0.008					ND	ND	ND	ND
4-Chlorotoluene	—	—	0.008					ND	ND	ND	ND
Dibromochloromethane	—	—	0.008					ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	—	—	0.008					ND	ND	ND	ND
1,2-Dibromoethane (EDB)	—	—	0.008					ND	ND	ND	ND
Dibromomethane	—	—	0.008					ND	ND	ND	ND
1,2- Dichlorobenzene	—	—	0.008					ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.008					ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.008					ND	ND	ND	ND
Dichlorodifluoromethane	—	—	0.008					ND	ND	ND	ND
1,1-Dichloroethane	—	—	0.008					ND	ND	ND	ND
1,2-Dichloroethane	—	—	0.008					ND	ND	ND	ND
1,1-Dichloroethene	**NA**	**NA**	0.008					ND	ND	ND	ND
cis-1,2-Dichloroethene	—	—	0.008					ND	ND	ND	ND
trans-1,2-Dichloroethene	—	—	0.008					ND	ND	ND	ND
1,2-Dichloropropane	—	—	0.008					ND	ND	ND	ND
1,3-Dichloropropane	—	—	0.008					ND	ND	ND	ND
2,2-Dichloropropane	—	—	0.008					ND	ND	ND	ND
1,1-Dichloropropene	—	—	0.008					ND	ND	ND	ND
cis-1,3-Dichloropropene	—	—	0.008					ND	ND	ND	ND
trans-1,3-Dichloropropene	—	—	0.008					ND	ND	ND	ND
Ethylbenzene	—	—	0.008					ND	ND	ND	ND
Freon 113	**NA**	**NA**	0.008					**0.651**	**0.964**	ND	**0.057**
Hexachlorobutadiene	—	—	0.008					ND	ND	ND	ND
Isopropylbenzene	—	—	0.008					ND	ND	ND	ND
4-Isopropyltoluene	—	—	0.008					ND	ND	ND	ND
Methylene chloride	—	—	0.008					ND	ND	ND	ND
Naphthalene	—	—	0.008					ND	ND	ND	ND
n-Propylbenzene	—	—	0.008					ND	ND	ND	ND
Styrene	—	—	0.008					ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	—	—	0.008					ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	—	—	0.008					ND	ND	ND	ND
Tetrachloroethylene (PCE)	**0.47**	**1.6**	0.008					ND	ND	ND	ND
Toluene	—	—	0.008					ND	ND	ND	ND
1,2,3-Trichlorobenzene	—	—	0.008					ND	ND	ND	ND
1,2,4-Trichlorobenzene	—	—	0.008					ND	ND	ND	ND
1,1,1-Trichloroethane	—	—	0.008					ND	ND	ND	ND
1,1,2-Trichloroethane	—	—	0.008					ND	ND	ND	ND
Trichloroethylene (TCE)	**1.3**	**4.4**	0.008					ND	ND	ND	ND
Trichlorofluoromethane	—	—	0.008					ND	ND	ND	ND
1,2,3-Trichloropropane	—	—	0.008					ND	ND	ND	ND
1,2,4-Trimethylbenzene	—	—	0.008					ND	ND	ND	ND
1,3,5-Trimethylbenzene	—	—	0.008					ND	ND	ND	ND
Vinyl chloride	—	—	0.008					ND	ND	ND	ND
Xylenes	—	—	0.008					ND	ND	ND	ND
MTBE	—	—	0.008					ND	ND	ND	ND
Ethyl-tert-butylether	—	—	0.008					ND	ND	ND	ND
Di-isopropylether	—	—	0.008					ND	ND	ND	ND
tert-amylmethylether	—	—	0.008					ND	ND	ND	ND
tert-Butylalcohol	—	—	0.040					ND	ND	ND	ND

NOTES:
VOC = Volatile Organic Compound
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ND = Not Detected Above the PQL
P = Purge Volume
REP = replicate
µg/L = micrograms per liter
NA = Information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of VOCs

PRELIMINARY

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TABLE 9
Soil Vapor Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs by EPA Method 8260B	CHHSLs* (µg/L)		Sample ID	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
		Comm/ Indust.	Date	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Residential		PQL	VOC Concentrations (µg/L)							
Benzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	**0.063**	**0.21**	0.008	ND	**0.017**	ND	ND	ND	ND	ND	ND
Chlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	**NA**	**NA**	0.008	**0.153**	**0.454**	ND	ND	ND	ND	ND	ND
Chloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2- Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	**NA**	**NA**	0.008	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	**NA**	**NA**	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	**0.47**	**1.6**	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	**1.3**	**4.4**	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tert-butylether	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropylether	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-amylmethylether	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylalcohol	—	—	0.040	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
VOC = Volatile Organic Compound
PQLs = Practical Quantitation Limits
ND = Not Detected Above the PQL
P = Purge Volume
REP = replicate
µg/L = micrograms per liter
NA = Information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of VOCs

PRELIMINARY

ALTA ENVIRONMENTAL

TABLE 9
Soil Vapor Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs by EPA Method 8260B	CHHSLs* (µg/L)		Sample ID	VP1-5	VP1-5 REP	VP2-5	VP3-5	VP4-5	VP5-5	VP6-5	VP7-5
	Resident.	Comm./ Indust.	Date	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/5/2015	5/4/2015	5/4/2015
			PQL	VOC Concentrations (µg/L)							
Benzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.053	0.21	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	NA	NA	0.008	ND	ND	**0.039**	ND	ND	ND	ND	ND
Chloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2- Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	NA	NA	0.008	ND	ND	ND	ND	ND	**0.118**	ND	ND
cis-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NA	NA	0.008	**0.068**	ND	**0.184**	**0.529**	**0.203**	**1.13**	ND	ND
Hexachlorobutadiene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.47	1.6	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	1.3	4.4	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tert-butylether	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Di-isopropylether	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-amylmethylether	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylalcohol	—	—	0.040	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
VOC = Volatile Organic Compound
PQLs = Practical Quantitation Limits
ND = Not Detected Above the PQL
P = Purge Volume
REP = replicate
µg/L = micrograms per liter
NA = Information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of VOCs

TABLE 9
Soil Vapor Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

[illegible]	CHHSLs* (µg/L)		Sample ID	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
			Date	[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
	Residential	Comm/ Indust	PQL	VOC Concentrations (µg/L)				
Benzene	—	—	0.008	ND	ND	SAMPLE RESULTS NOT YET AVAIALABLE	SAMPLE RESULTS NOT YET AVAIALABLE	SAMPLE RESULTS NOT YET AVAIALABLE
Bromobenzene	—	—	0.008	ND	ND			
Bromodichloromethane	—	—	0.008	ND	ND			
Bromoform	—	—	0.008	ND	ND			
n-Butylbenzene	—	—	0.008	ND	ND			
sec-Butylbenzene	—	—	0.008	ND	ND			
tert-Butylbenzene	—	—	0.008	ND	ND			
Carbon tetrachloride	0.063	0.21	0.008	ND	ND			
Chlorobenzene	—	—	0.008	ND	ND			
Chloroethane	—	—	0.008	ND	ND			
Chloroform	NA	NA	0.008	ND	ND			
Chloromethane	—	—	0.008	ND	ND			
2-Chlorotoluene	—	—	0.008	ND	ND			
4-Chlorotoluene	—	—	0.008	ND	ND			
Dibromochloromethane	—	—	0.008	ND	ND			
1,2-Dibromo-3-chloropropane	—	—	0.008	ND	ND			
1,2-Dibromoethane (EDB)	—	—	0.008	ND	ND			
Dibromomethane	—	—	0.008	ND	ND			
1,2- Dichlorobenzene	—	—	0.008	ND	ND			
1,3-Dichlorobenzene	—	—	0.008	ND	ND			
1,4-Dichlorobenzene	—	—	0.008	ND	ND			
Dichlorodifluoromethane	—	—	0.008	ND	ND			
1,1-Dichloroethane	—	—	0.008	ND	ND			
1,2-Dichloroethane	—	—	0.008	ND	ND			
1,1-Dichloroethene	NA	NA	0.008	ND	ND			
cis-1,2-Dichloroethene	—	—	0.008	ND	ND			
trans-1,2-Dichloroethene	—	—	0.008	ND	ND			
1,2-Dichloropropane	—	—	0.008	ND	ND			
1,3-Dichloropropane	—	—	0.008	ND	ND			
2,2-Dichloropropane	—	—	0.008	ND	ND			
1,1-Dichloropropene	—	—	0.008	ND	ND			
cis-1,3-Dichloropropene	—	—	0.008	ND	ND			
trans-1,3-Dichloropropene	—	—	0.008	ND	ND			
Ethylbenzene	—	—	0.008	ND	ND			
Freon 113	NA	NA	0.008	ND	ND			
Hexachlorobutadiene	—	—	0.008	ND	ND			
Isopropylbenzene	—	—	0.008	ND	ND			
4-Isopropyltoluene	—	—	0.008	ND	ND			
Methylene chloride	—	—	0.008	ND	ND			
Naphthalene	—	—	0.008	ND	ND			
n-Propylbenzene	—	—	0.008	ND	ND			
Styrene	—	—	0.008	ND	ND			
1,1,1,2-Tetrachloroethane	—	—	0.008	ND	ND			
1,1,2,2-Tetrachloroethane	—	—	0.008	ND	ND			
Tetrachloroethylene (PCE)	0.47	1.6	0.008	ND	ND			
Toluene	—	—	0.008	ND	ND			
1,2,3-Trichlorobenzene	—	—	0.008	ND	ND			
1,2,4-Trichlorobenzene	—	—	0.008	ND	ND			
1,1,1-Trichloroethane	—	—	0.008	ND	ND			
1,1,2-Trichloroethane	—	—	0.008	ND	ND			
Trichloroethylene (TCE)	1.3	4.4	0.008	ND	ND			
Trichlorofluoromethane	—	—	0.008	ND	ND			
1,2,3-Trichloropropane	—	—	0.008	ND	ND			
1,2,4-Trimethylbenzene	—	—	0.008	ND	ND			
1,3,5-Trimethylbenzene	—	—	0.008	ND	ND			
Vinyl chloride	—	—	0.008	ND	ND			
Xylenes	—	—	0.008	ND	ND			
MTBE	—	—	0.008	ND	ND			
Ethyl-tert-butylether	—	—	0.008	ND	ND			
Di-isopropylether	—	—	0.008	ND	ND			
tert-amylmethylether	—	—	0.008	ND	ND			
tert-Butylalcohol	—	—	0.040	ND	ND			

NOTES:
VOC = Volatile Organic Compound
PQLs = Practical Quantitation Limits
ND = Not Detected Above the PQL
P = Purge Volume
REP = replicate
µg/L = micrograms per liter
NA = Information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of VOCs

PRELIMINARY

ALTA ENVIRONMENTAL

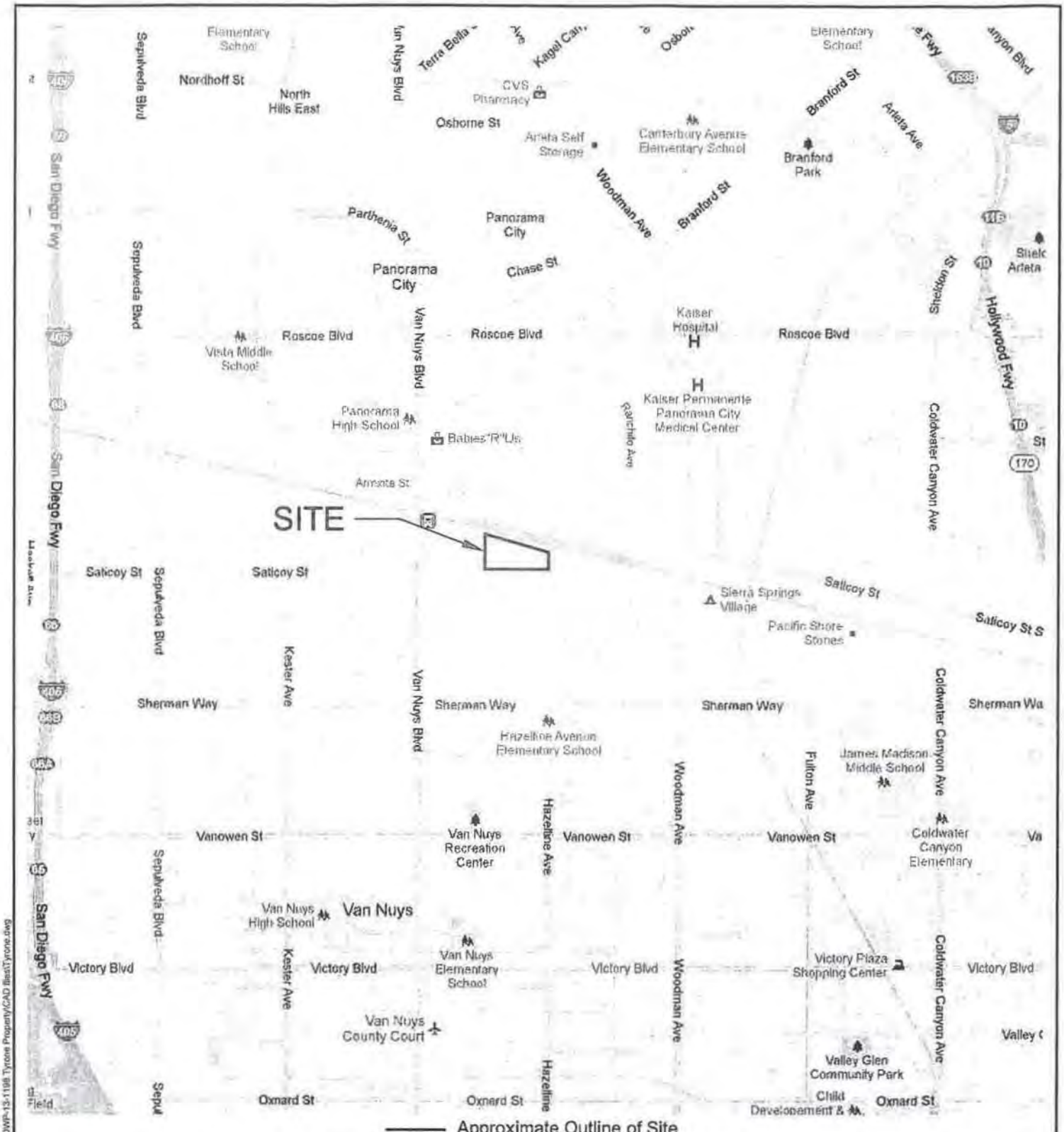


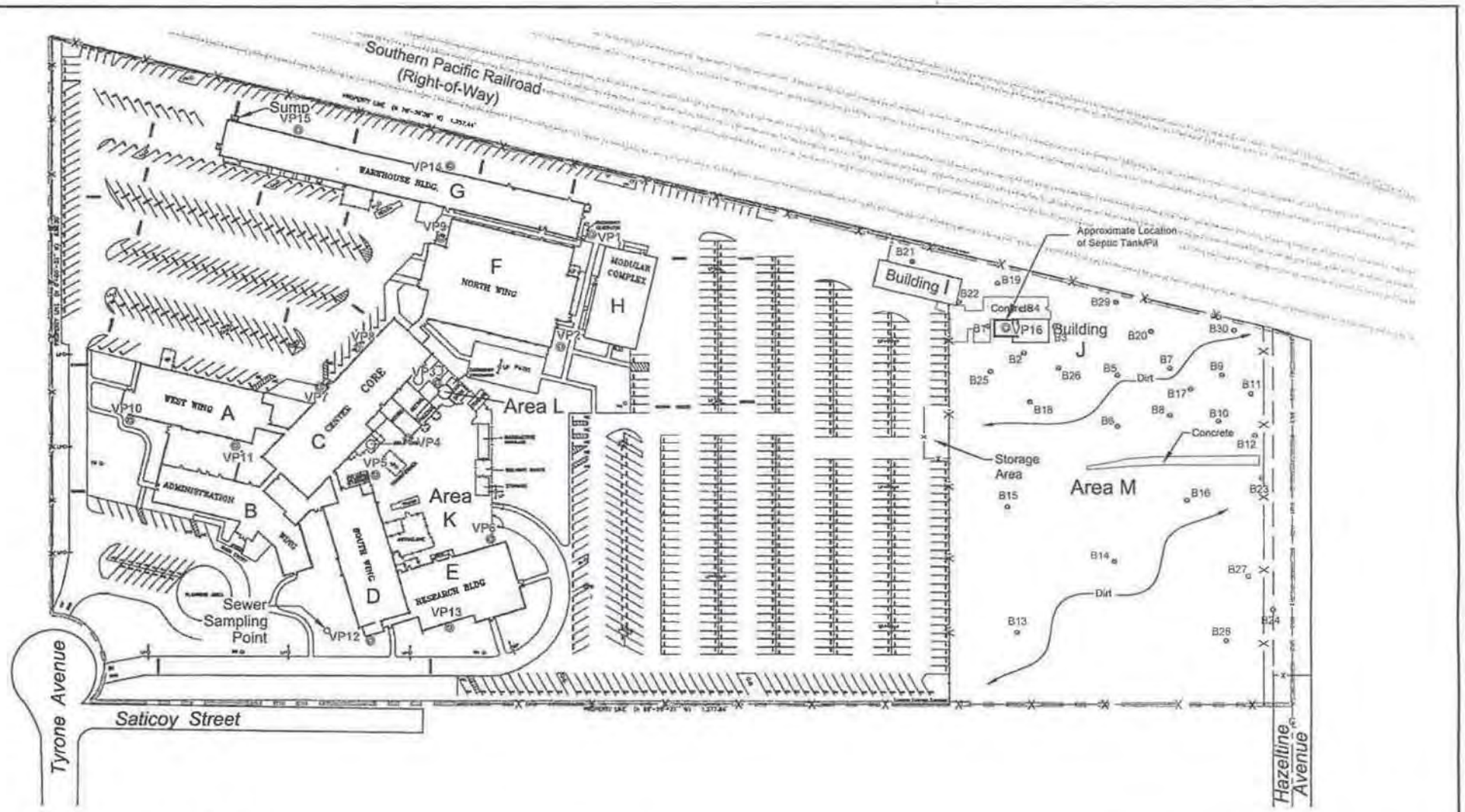
FIGURE 1: Site Location Map

CLIENT: Los Angeles Department of Water and Power	SITE LOCATION: 7600 Tyrone Avenue Van Nuys, California
PROJECT #: LDWP-13-1198	

ALTA ENVIRONMENTAL
3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.altaenviron.com

DRAWN: KD	APPROVED: SM	NORTH
SCALE: NONE	DATE: 6/13/13	

W:\Clients H-M\LA City Dept of Water & Power (LDWP)\LDWP-13-1198 Tyrone Property\CAD files\Tyrone.dwg



Explanation

- Site boundary
- Fence
- Fire hydrant
- Gas pad
- Light poles
- Telephone pole
- Speed bump
- Handicap
- VP8 Soil Vapor Boring Location
- Shallow Soil Boring Location

Note:

All locations are approximate.

NORTH

1" = 100'

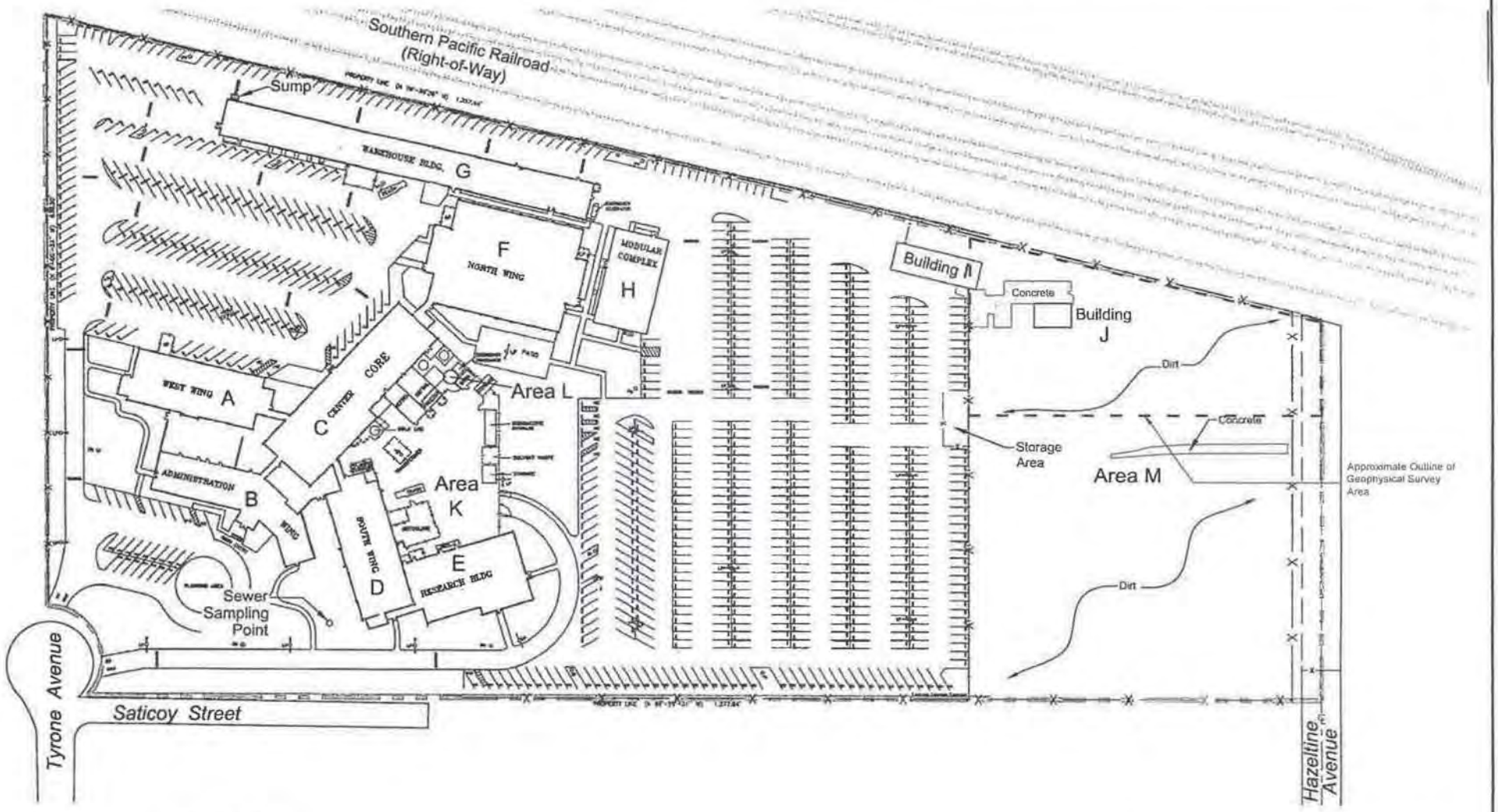
Approx. Scale: 1" = 100'

FIGURE 3: Boring Location Map

CLIENT: Los Angeles Department of Water and Power	DRAWN: KAD	DATE: 6/2013
	APPRV.: SM	Appx. Scale: 1" = 100'
SITE: 7600 Tyrone Avenue Van Nuys, California		
PROJ. NO.: LDWP-13-1198		

ALTA ENVIRONMENTAL

3777 Long Beach Blvd, Annex Bldg, Long Beach CA 90807
P: (562) 495-5777 * F: (562) 495-5877 * altaenviron.com



Explanation

- Site boundary
- Fence
- Fire hydrant
- Gas pad
- Light poles
- Telephone pole
- Speed bump
- Handicap
- Approximate Outline of Geophysical Survey Area - Some locations not surveyed due to inaccessiblity

Note:

All locations are approximate.

NORTH

0 100'

Approx. Scale: 1" = 100'

FIGURE 2: Site Layout & Geophysical Survey Area

CLIENT: Los Angeles Department of Water and Power	DRAWN: KAD	DATE: 4/2013
	APPRV.: SM	Appx. Scale: 1" = 100'
SITE: 7600 Tyrone Avenue Van Nuys, California	ALTA ENVIRONMENTAL	
PROJ. NO.: LDWP-13-1198	3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807 P: (562) 495-5777 * F: (562) 495-5877 * altaenviro.com	

NMG
Geotechnical, Inc.

August 10, 2012

Project No. 12069-01

To: Shubin Nadal Realty Investors
901 Dove Street, Suite 225
Newport Beach, California 92660

Attention: Mr. William Shubin

Subject: Preliminary Geotechnical Exploration for Proposed Office-Industrial Project at 7600 Tryone Avenue, Van Nuys, City of Los Angeles, California

At your request and authorization, NMG Geotechnical, Inc. (NMG) has conducted a geotechnical exploration for the proposed development at the subject site located at 7600 Tyrone Avenue, in Van Nuys in the City of Los Angeles, California. The site location is shown on Figure 1. The purpose of this exploration was to assess the onsite geotechnical conditions and provide preliminary geotechnical recommendations for project design, grading and construction.

Our geotechnical exploration was performed June 25 and 26, 2012, which included drilling, sampling and logging of fifteen hollow-stem-auger borings (H-1 through H-15) to depths ranging from 9 to 31.5. Two of the borings were used for onsite percolation testing. Laboratory testing was performed on selected soil samples to determine engineering soil properties.

Other than constraints typical for this area (e.g. seismicity), the primary geotechnical constraint at the site is a potentially collapsible soil layer ranging in thickness from 2 to 4 feet found in the upper 5 to 7.5 feet of Borings H-4 and H-5. However, these soils appear to be limited to a localized area within the vicinity of these borings. The site is not located in potential liquefaction or earthquake-induced landslide hazard zones. Near surface soil has low expansion potential. For typical low-rise commercial/industrial buildings the total post-construction settlement is not anticipated to exceed one-half inch and differential settlement is anticipated to be less than ¼ inch in a 40-foot span, provided recommended remedial grading is performed and existing site grades are not raised significantly. Therefore, conventional shallow foundations and slabs-on-grade will acceptable for the planned construction.

This report presents our findings, conclusions and preliminary recommendations for the proposed project. Upon the completion of grading, additional soil samples may need to be collected and tested to confirm the recommendations provided herein. Also, the future grading and foundation plans should be reviewed by the geotechnical consultant in light of this study to confirm that our recommended design parameters have been used, and to provide further recommendations, as needed.

If you have any questions regarding this report, please contact our office. We appreciate the opportunity to provide our services.

Respectfully submitted,

NMG GEOTECHNICAL, INC.

Ted Miyake

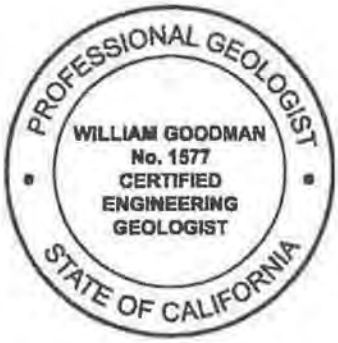
Ted Miyake, RCE 44864
Principal Engineer

William Goodman

William Goodman, CEG 1577
Principal Geologist

CD/PA/TM/WG/je

Distribution: (3) Addressee



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Appendices

1.0 INTRODUCTION

1.1 Site Location and Proposed Development

The site is located in a commercial-industrial district at 7600 Tyrone Avenue, in Van Nuys, within the City of Los Angeles, California. The site bordered by railroad tracks that run along Cabrito Road on the north, by Tyrone Avenue and existing commercial properties on the west, by Hazeltine Avenue on the east, and by the extension of Saticoy Street and commercial properties on the south.

We understand that existing structures and improvements at the site will be demolished. The conceptual site plan shows three proposed new industrial buildings, associated driveways and parking lots, and Saticoy Avenue improvements. The buildings will be single level tilt up construction with some mezzanine space. Access to the site will be off an extension of Saticoy Avenue, which may also be extended further east in the future. We understand that future grades will not be significantly different that existing grades. Therefore, we have assumed that new fill loads will be minor.

1.2 Existing Site Conditions

The subject site is trapezoidal and approximately 16.4 acres with existing buildings having a footprint of over 172,000 square feet. The existing buildings, some of which are multi-story, are surrounded by paved driveways and parking lots; most were constructed in the mid-1960s with one building built in 1988. The eastern end of the site is a predominantly vacant dirt parcel containing three small buildings in the northwest corner. This entire property is relatively flat with local areas of grasses, weeds, and small stockpiles of soil and rubble in the vacant lot area. There are some relatively large trees at the site, especially in the west half around the primary building campus. The existing buildings are currently unoccupied.

1.3 Scope of Services

Our scope of services for this study included the following tasks:

- Review of geotechnical information pertaining to the subject site, including site geology, historic groundwater data, and seismic hazard maps.
- Site reconnaissance to identify the existing site conditions and marking of boring and test-pit locations.
- Coordination with Underground Service Alert and a private utility locating service (Util-locate) to identify and locate any underground utilities.
- Field exploration consisted of drilling, logging and sampling of fifteen hollow-stem-auger borings to depths of 9 to 31.5 feet. The borings were backfilled with cuttings and patched with cold patch asphalt concrete. Soils in the borings were sampled using a Modified California ring sampler (2.5-inch, inside-diameter, split-barrel). The sampler was driven with a 140-pound automatic hammer, free-falling 30 inches. We collected relatively undisturbed

ring samples from the borings at 2.5- to 5-foot intervals. Representative bulk samples of onsite soils were collected from the hollow-stem auger cuttings. The sampling was used to assess the soil beneath the site, as well as to obtain a measure of resistance of the soil to penetration (recorded as blows-per-foot on the geotechnical boring logs). The boring logs are included in Appendix B.

- Percolation testing on two boring locations to measure percolation and infiltration rates based on accepted local percolation test procedures and requirements.
- Laboratory testing of selected samples to classify the onsite soils and evaluate in-situ moisture and density, maximum dry density and optimum moisture content, R-value, grain-size distribution, Atterberg limits, direct shear, consolidation, expansion index, and soil corrosivity. Test results are summarized in Appendix C. A corrosion engineer's report is also attached at the rear of Appendix C.
- Geotechnical evaluation and analysis of the compiled data in light of the planned project.
- Evaluation of faulting and seismicity in accordance with the 2010 California Building Code (CBC).
- Preparation of this report including our findings, conclusions, preliminary recommendations and accompanying illustrations.

NMG's expertise and scope of services did not include assessment of potential subsurface environmental contaminants or environmental health hazards.

2.0 GEOTECHNICAL FINDINGS

2.1 Geologic Setting

The subject site is located in the central San Fernando Valley portion of the Transverse Range province of Southern California. The San Fernando Valley is an east-west trending structural trough bounded to the north and south by active faulting along the southern edge of the San Gabriel and Santa Monica Mountains. The site is mapped by the state as underlain by young alluviul fan deposits (USGS 2005) generated by the Pacoima and Tujunga washes which originate in the adjacent San Gabriel Mountains. The underlying material is described as consisting of unconsolidated gravel, sand, silt and clay. Portions of the valley are also underlain by flood deposits of the Los Angeles River.

2.2 Regional Faulting and Seismicity

Regional Faults: The site is not located within a fault-rupture hazard zone as defined by the Alquist-Priolo Special Studies Zones Act (CDMG, 1999) and no evidence of active faulting was observed during this exploration.

Using the USGS computer program (USGS, 2002, updated 2008) and the site coordinates of 34.209 degrees north latitude and 118.442 degrees west longitude, the closest major active faults to the site are the Northridge Hills Fault (5.3 km), Verdugo Fault (6.1 km), Sierra Madre Fault (9.7 km), Hollywood Fault (12.9 km).

Seismicity: Sites in southern California are subject to seismic hazards of varying degrees depending upon the proximity, degree of activity, and capability of nearby faults. These hazards can be primary (i.e., directly related to the energy release of an earthquake such as surface rupture and ground shaking) or secondary (i.e., related to the effect of earthquake energy on the physical world, which can cause phenomena such as liquefaction and ground lurching). Since there are no active faults at the site, the potential for primary ground rupture is considered low. The primary seismic hazard for this site is ground shaking due to a future earthquake on one of the major regional active faults listed above.

The maximum moment magnitude for the controlling fault is 6.93 M_W, with peak ground accelerations of 0.48g (SDS/2.5) which would be generated from the Northridge Hills fault.

The site is not located within an area of potential liquefaction, as defined by the State's Seismic Hazard Mapping Act. The attached Site Location and Seismic Hazards Map (Figure 1) shows the approximate location of the site relative to seismic hazard zones, as shown on the State of California Seismic Hazard Zones Map for the Van Nuys Quadrangle (CDMG, 1998).

Secondary seismic hazards, such as tsunami and seiche, are considered low as the site is located more than 15 miles away from the ocean and is not located within a mapped Tsunami Inundation Zone, nor is the site located near any confined water storage facilities (e.g., open reservoirs, water tanks, etc.).

2.3 Geotechnical Conditions

NMG's exploration encountered approximately 2.5 to 7.5 feet of undocumented artificial fill overlaying the alluvial deposits of the site. The existing artificial fill generally consisted of yellowish brown to brown silty sand. The artificial fill materials encountered were medium dense to dense with blow-counts in the range of 7 to 34 blows/ft (California Ring Sampler blows). Field moisture content varied from approximately 1.3 percent to 12.6 percent, with an average of about 8 percent. The dry densities of the fill ranged from 105.6 to 126 pounds per cubic foot (pcf).

Most of the alluvium deposits at the site generally consisted of interlayered yellowish brown, olive brown, and brown sandy and clayey silts, and silty sands; with some poorly graded sands in local areas. Sandy and clayey silt soils were predominantly found in our borings, with silty sand layers found at depths of 20 to 25 feet in Borings H-5, H-7 trhough H-9, H-11, and H-12. The sandy and clayey silts were medium stiff to stiff with blow-counts ranging from 6 to 29 blows/ft. Field moisture content for these soils varied from 4.2 to 20.3 percent and the dry density ranged from 95.9 to 116.7 pcf. The silty sand soils were medium dense to dense with blow counts varying from 13 to 32 blows per foot; field moisture content varied from 3 to 19.3 percent, having dry densities ranging from 99.9 to 128.1 pcf. Groundwater was not encountered in our borings.

The engineering properties, based on the laboratory test results, used to characterize the subsfurface soils are presented in Section 2.4.

2.4 Laboratory Test Results

We tested representative samples of onsite soils collected during our field exploration to characterize their engineering properties in general conformance with applicable American Society for Testing and Materials (ASTM) standards. The laboratory test results from this study are provided in Appendix C. In-situ moisture content and dry density data are included on the geotechnical boring logs (Appendix B).

Results of the maximum dry density testing indicates that the silty sandy soils collected at depths of 0 to 5 feet in Borings H-1 and H-12 have maximum dry densities of approximately 122 and 120 pcf at optimum moisture contents of 10.5 and 10 percent, respectively.

Grain-size distribution and plasticity tests (Atterberg Limits) were conducted on samples considered representative of the alluvial and artificial fill soil in the upper 10 feet. The samples tested were generally classified as silty sands and sandy silts, with fine contents ranging from 27 to 70 percent. One sample in Boring H-1 and at depth of 7.5 feet was classified as a poorly graded sand with fine content of 4 percent. A representative artificial fill soil sample at a depth of 2.5 feet was found to be non-plastic. One clayey silt sample collected at a depth ranging from 5 to 10 feet was found to have a liquid limit of 27 percent and a plastic limit of 35 percent.

Based on laboratory testing, the onsite sandy and silty soils in the upper 10 feet have "low" to "very low" expansion potential (Expansion Index in the range of 8 to 22). The R-values of two near surface soil samples were 60 and 70.

Direct shear testing was conducted on two undisturbed alluvial samples and one undisturbed artificial fill sample representative of sandy and silty soils, collected at depths of feet, in order to evaluate the strength properties of the underlying materials. The results of the direct shear test indicate that the alluvial soils have an ultimate internal friction angle of 26 degrees with cohesion of 100 pounds per square foot (psf). The peak internal friction angle was 28 degrees at cohesion of 400 psf. The fill soil sample had an ultimate friction angle of 27 degrees at 175 cohesion; the peak values for friction angle and cohesion were 31 degrees and 350 psf, respectively.

The boring data and consolidation test results show that onsite soils have low to moderate settlement potential with the exception of some soil that may be prone to hydroconsolidation (collapse upon saturation). Soil samples tested from depths of 5 and 7.5 feet at borings H-4 and H-5, respectively showed collapse potentials ranging from from 1.86 to 4.21 percent upon the introduction of water at 3.2 ksf axial load. Two representative samples of the near-surface soils were sent to an outside laboratory for corrosivity testing. This testing included pH, soil resistivity, sulfate content and chloride content.

The electrical resistivity test on the saturated soil sample indicates that onsite soils are corrosive to ferrous metals. Sulfate-content test result indicates that onsite soils have "negligible" sulfate exposure per Table 4.3.1 of ACI-318. The corrosivity test results and the corrosion protection recommendation report prepared by HDR Schiff are presented in Appendix C.

2.5 Groundwater

Groundwater was not encountered in any of our borings to a depth of 31.5 feet. Historic high groundwater at the site is mapped at 70 to 80 feet below ground; however, local groundwater well data indicates it ould be as deep as 200 feet. Groundwater is not anticipated to be encountered during grading operations

2.6 Settlement

With the exception of the potentially collapsible soil discussed in Section 2.4, the soil at the site is has relatively low settlement potential for the anticipated fill and structural loads. Some of the near surface soil in the vacant portion of the site on the east end is looser and dry. Provided the recommended remedial measures herein are implemented the total consolidation (static) settlement for the proposed structures should not exceed 1/2- inch following construction. The differential settlement should not exceed 1/4-inch over a 40-foot span.

If not mitigated, the potential settlement related to the collapsible soil encountered in borings H-4 and H-5 is on the order of 1 to 2 inches. This assumes the collapsible soil layer is 2 to 4 feet thick and would become saturated following project completion (either from natural or man-induced infiltration). Because the limits of the collapsible soil can vary, the entire settlement

potential of 1 to 2 inches may be differential. This differs from differential settlements calculated from normal consolidation settlement which is often estimated as one half of the total settlement.

The soil characteristics at the site are such that the soil should not be prone to significant settlement that can be induced by earthquake related ground shaking.

2.7 Seismic Hazards

The site is not located within any mapped seismic hazard zone. We did not encounter conditions considered significant with respect to other secondary seismic hazards such as liquefaction.

2.8 Percolation Testing

Percolation testing at the site was performed on June 27, 2012. The Boring Percolation Test Procedure was used as described in "Low Impact Development Best Management Practice Guideline For Design, Investigation, And Reporting" by the County of Los Angeles Department of Public Works (LADPW, 2011). Two percolation tests were performed in borings H-3 and H-6 (8-inch diameter) with depths of 12.5 and 7.5 feet, respectively. The borings were presoaked overnight prior to testing. The percolation testing was performed over a six-hour period and the final measurement was used to calculate the preliminary design infiltration rate. Percolation test data sheets are provided in Appendix D.

Measured percolation and infiltration rates were calculated based on the results of the final measurements at each test location. Measured infiltration rates were calculated using the formula given in the Boring Percolation Test Procedure (LADPW, 2011). This equation corrects for vertical flow and removes the affects of lateral flow. Measured percolation rates and measured infiltration rates are given in Table 1, below.

TABLE 1 – PERCOLATION TEST RESULTS

Boring No.	*Measured Percolation Rate (in./hr.)*	*Measured Infiltration Rate (in./hr.)*
H-3	24.0	3.08
H-6	4.80	1.50

3.0 CONCLUSION AND RECOMMENDATIONS

3.1 General Conclusion and Recommendation

Based on our study, the proposed project is considered feasible from a geotechnical standpoint provided the recommendations in this report are implemented during design, grading and construction. The site will require partial removal of existing artificial fill materials, as well as remedial grading to remove anticipated unsuitable soils and provide a compacted fill blanket to support the proposed improvements.

Our recommendations are based on the anticipated geotechnical conditions and should be verified during grading and construction. Additional soil testing and revised recommendations may be necessary if import fill is required and/or exposed geotechnical conditions vary significantly from the findings and interpretations presented in this report. Geotechnical observation and testing should be conducted during grading and construction operations. The recommendations in this report are considered minimum and may be superseded by more stringent requirements of others and/or the future geotechnical consultant of record.

3.2 Site Preparation and Earthwork

Site preparation and grading should be performed in accordance with the recommendations herein and the requirements of the City of Los Angeles. NMG's General Earthwork and Grading Specifications are included in Appendix F.

3.2.1 Site Demolition and Clearing

Prior to remedial grading and after demolition and removal of the existing improvements, deleterious materials and debris should be cleared from the site and disposed of offsite. Excavation for the removal of existing utilities and vegetation should be observed by the geotechnical consultant. Large roots, highly organic soils, existing foundations, pipelines and construction debris should be removed and should not be incorporated into new fills.

Soil that is disturbed as part of large excavations or removal of underground utilities and foundations should be observed and evaluated by the geotechnical consultant who should provide remedial recommendations. Excavations that require backfill should be properly documented and compacted under the observation and testing of the geotechnical consultant.

3.2.2 Protection of Existing Improvements and Utilities

Existing improvements and utilities at or adjacent to the site that are to be protected in place should be located and visually marked prior to demolition and grading operations. Excavations adjacent to improvements to be protected in-place or any utility easement should be performed with care, so as not to undermine existing foundations or destabilize the adjacent ground.

3.2.3 Remedial Grading Measures

Some of the near-surface soils including the existing artificial fill are expected to be disturbed and unsuitable for structural support following site demolition. The upper one to two feet of soil in the vacant areas at the east end of the site is also weathered and loose. These materials should be removed and recompacted (per Section 3.2.4). On average, remedial removals across the site should be on the order of 2 to 3 feet deep, with the exception of the collapsible soil area near borings H-4 and H-5. The existing soil in this area should be removed down to approximately 7.5 feet below existing ground and recompacted. The general area of potentially collapsible soil is show on Figure 3. The extent to which the collapsible soils extends laterally should be determined in the field during removals by the geotechnical consultant. Soil may be deemed to have insignificant collapse potential if it has an in-place soil with dry density near 110 pcf or a degree of saturation over 65 percent. Clayey or very clean sands may also be visually classified as having low collapse potential.

We recommend a minimum new fill blanket of 3 feet within the new building footprints. The removal bottoms should be reviewed and approved by the geotechnical consultant prior to placement of new fill. Because the recommended remedial removal depths are based on limited subsurface data, locally deeper removals may be required to establish competent removal bottoms based on observed field conditions.

Excavations for remedial removals deeper than 4 feet should be laid back at 1.5H:1V inclinations or flatter. Shallower excavations may consist of near vertical sides.

3.2.4 Fill Placement

Upon completion of remedial removals, the approved removal bottoms should be scarified a minimum of 6 inches. The removal bottoms and fill materials should be compacted to at least 90 percent of maximum dry density, as determined by ASTM Test Method D1557. Fill materials should be placed in loose lifts no thicker than 8 inches.

Fill materials should be relatively free of deleterious material. Crushed (recycled) asphalt concrete and PCC concrete may be used as fill materials. The existing fill soil and alluvium at the site should generally be suitable for re-use as compacted fill. The moisture content of new compacted fill soils should be placed at above the optimum moisture content within the compactable moisture range. Appropriate support equipment and other measures (e.g., mixing, stockpiling) may be needed to achieve the uniform and correct moisture content for placement of the fill. If the soils become extremely wet (during wet seasons), special measures for mixing and drying may be required that will need to be determined based on the field conditions.

3.2.5 Earthwork Shrinkage and Bulking

Due to the inherent variability of soil materials, earthwork volume changes are difficult to accurately quantify. Based on the gathered data and our experience with similar materials,

we anticipate the near surface soil that is removed and recompacted will shrink on the order of zero to 5 percent. Since the site has been previously developed, little to no subsidence is anticipated from site earthwork equipment.

3.3 Seismic Design Parameters

The seismic design criteria based on the 2010 California Building Code (CBC) are as follows:

Selected Seismic Design Parameters from 2010 CBC	*Seismic Design Values*	*Reference*
Latitude	34.2094 North	
Longitude	118.4423 West	
Controlling Seismic Source	Northridge Hills Fault	USGS, 2008
Distance to the Controlling Seismic Source	3.2 Miles (5.2 km)	USGS, 2008
Site Class per Table 1613.5.2	D	USGS, 2011
Spectral Acceleration for Short Periods (Ss)	1.754 g	USGS, 2011
Spectral Accelerations for 1-Second Periods (S1)	0.612 g	USGS, 2011
Five-Percent Damped Design Spectral Response Acceleration at Short Periods (S_{DS}) from Equation 16-38 (Site Class D)	1.169 g	USGS, 2011
Five-Percent Damped Design Spectral Response Acceleration at 1-Second Period (S_{D1}) from Equation 16-39 (Site Class D)	0.612 g	USGS, 2011

3.4 Foundation Design

Shallow foundations and slab-on-grade floors should be feasible for the proposed structurers. Our exploration and laboratory testing suggests that expansive soil will not a significant issue for foundations and slabs-on-grade. Although one of two expansion index (EI) tests had an EI of just over 20, we anticipate that following site demolition and grading, the general EI for the site may be classified as less than 20. (Foundation and slabs on soil with EI's greater than 20 should be designed per the requirements of Section 1808.6 of the 2010 CBC.) The preliminary design parameters for wire-reinforced slabs are provided below; however, these parameters may need to be revised if different conditions are encountered during the grading.

The design of slabs and foundations is the purview of the project structural engineer based on the anticipated dead and live loads. The design of foundations should also consider the settlement as discussed in Section 3.6.

For preliminary design purposes, the net allowable bearing capacity for footings may be calculated based on the following equation:

$$q_{all} = 1{,}000\ D + 500\ B + 500$$

where:
D = embedment depth of footing, in feet
B = width of footing, in feet
q_{all} = maximum allowable bearing pressure, not to exceed 3,000 psf.

If applicable, an effective plasticity index of 10 may be used for design of wire-reinforced slabs. Also, a soil subgrade reaction, k_s, of 150 pounds per cubic inch (pci) and soil modulus of elasticity, E_s, of 1,500 psi are recommended for design of foundations and slabs. The allowable bearing pressure may be increased by one-third for wind and seismic loading. The coefficient of resistance of 0.35 against sliding is considered appropriate. For isolated footings, we recommend minimum embedment of 18 inches below lowest adjacent grade.

3.5 Interior Slab Moisture Mitigation

In addition to geotechnical and structural considerations, the project owner should also consider moisture mitigation when designing and constructing slabs-on-grade. The intended use of the interior space, type of flooring, and the type of goods in contact with the floor may dictate the need for, and design of, measures to mitigate potential effects of moisture emission from and/or moisture vapor transmission through the slab. A vapor retarder or barrier is typical under the slab to help mitigate moisture transmission through slabs.

Guidelines by the American Concrete Institute (ACI) (302.1R-96) recommend that the vapor retarder be placed directly under the slab (sand layer not required). However, the location of the vapor retarder and the use of sand above it may also be subject to the owner's/builder's past successful practice. A minimum 10-mil thick vapor retarder is recommended where flooring and/or interior use requires floor slab water vapor control.

Concrete mix design and curing are also significant factors in mitigating slab moisture problems. Concrete with lower water/cement ratios results in denser, less permeable slabs. They also "dry" faster with regard to when flooring can be installed (reduced moisture emissions quantities and rates). Rewetting of the slab following curing should be avoided since this can result in additional drying time required prior to flooring installation. Proper concrete slab testing prior to flooring installation is also important.

The concrete mix design and the type and location of the vapor retarder should be determined in coordination with all parties involved in the finished product, including the project owner, architect, structural engineer, geotechnical consultant, concrete subcontractors, and flooring subcontractors.

3.6 Settlement Potential

Static and seismic settlements for the proposed structures are not expected to exceed ½-inch total and ¼-inch differential following completion of construction, provided the recommendations in this report are implemented for design, grading, and construction.

3.7 Lateral Earth Pressures

The recommended lateral earth pressures based on our limited subsurface exploration and for approved compacted soils in drained conditions are as follows:

Conditions	*Level (pcf)*	*2:1 Slope (pcf)*
Active	40	65
At-Rest	60	85
Passive	360	135 (sloping down)

In addition to the above lateral forces due to retained earth, the influence of surcharge due to other loads such as adjacent footings, vehicular traffic or lateral loads acting on the retaining wall, if any, should be considered during the design of retaining walls. Recommendations for drainage behind retaining walls are provided in the attached detail (Figure 3, rear of text).

To design an unrestrained retaining structure, such as a cantilever wall, the active earth pressure may be used. For a restrained retaining structure, such as a basement wall, loading docks or at restrained-wall corners, the at-rest pressure should be used. Passive pressure is used to compute lateral soil resistance developed against lateral structural movement. Further, for sliding resistance, the friction coefficient of 0.35 may be used at the concrete and soil interface. In addition, the passive resistance is taken into account only if it is ensured that the soil against embedded structures will remain intact with time. Drainage behind retaining walls should also be provided, unless hydrostatic forces are incorporated in wall design.

The seismic lateral earth pressure for level backfill may be estimated to be an additional 14 pcf for active and at-rest conditions. The earthquake soil pressure distribution is similar to active and at-rest pressure distributions and is added to the static pressures. For the active and at-rest conditions, the additional earthquake loading is zero at the top and maximum at the bottom.

3.8 Cement Type

Concrete mix design for structural concrete elements may be based on the "negligible" soluble sulfate category of Table 4.3.1 in ACI-318-318R-43. Other ACI guidelines for structural concrete are recommended. Additional sampling and testing at or near the completion of grading may be recommended if soil conditions are encountered that are significantly different than anticipated.

3.9 Soil Corrosivity

The corrosion protection recommendation report prepared by HDR Schiff is included in Appendix C of this report.

3.10 Vehicular Pavement

As discussed previously, the R-value of the near surface soil samples collected in our geotechnical study at the site were in the range of 60 to 70. For preliminary purposes using a traffic index (TI) of 5.0 for parking stalls, TI of 5.5 for drive areas, and TI of 6.0 for drive entries; and a design R-value of 50, we recommend the following pavement sections in accordance with the California Highway Design Manual. Because of the high R-value, a minimum section of 3 inches asphalt concrete (AC) over 6 inches of aggregate base (AB) applies for all cases. In addition, pavement sections for concrete unit pavers are provided in the event they are specified.

	T.I.= 5.0 Primarily Passenger and Light Duty Vehicles	***T.I.= 5.5 Drive Aisles***	***T.I.= 6.0 Truck Traffic Areas***
Pavement Section Alternatives	3-inch AC/6-inch AB	3-inch AC/6inches AB	3-inch AC/6-inch AB
	5-inch Full Depth AC/ Compacted Subgrade	5.5-inch Full Depth AC/ Compacted Subgrade	6-inch Full Depth AC/ Compacted Subgrade
	80mm (3.15") PAVERS/6-inch AB	80mm PAVERS/8-inch AB	80mm PAVERS/8-inch AB

If higher traffic indices are determined when project plans are more complete, the above pavement sections should be reviewed and adjusted as necessary.

Pavement sections should be constructed in accordance with the requirements of Section 301 and 302 of the Standard Specifications of Public Works Construction (The Green Book). Prior to construction of pavement sections, the subgrade soils should be scarified to a minimum depth of 6 inches, moisture-conditioned as needed, and recompacted in place to a minimum of 90 percent relative compaction per ASTM D1557. If AC is placed directly over the subgrade soil, then the subgrade soil should be compacted to a minimum relative compaction of 95 percent. Subgrade should be firm and unyielding.

AB materials should be crushed aggregate or crushed miscellaneous base in accordance with The Green Book. AB should be free of deleterious materials, placed in 6- to 8-inch loose lifts, moisture-conditioned as necessary, and compacted to a minimum of 95 percent relative compaction per ASTM D1557. AC should also be compacted to 95 percent relative compaction.

PCC Section for Truck Loading Docks and Trash Bin Areas: We recommend that the truck loading dock and trash bin area pavements be a minimum of 6-inch-thick PCC slab over compacted subgrade. Reinforcement with No. 3 rebars, at least 18 inches on center, both ways,

is recommended. The soil subgrade should be compacted to a minimum 95 percent relative compaction per ASTM D1557.

Moisture and root barriers should be considered along the street pavements that are adjacent to unpaved medians and parkways with landscape and irrigation in order to minimize the potential for wetting of the street subgrade soils and pavement distress.

3.11 Other Site Concrete

We recommend that the "**low**" category be used during the preliminary design of the project site. Additional laboratory testing or field evaluation following the completion of grading operations should be performed to verify our preliminary recommendations.

TYPICAL RECOMMENDATIONS FOR NON-STRUCTURAL CONCRETE FLATWORK/HARDSCAPE

Recommendations	Expansion Potential (Index)				
	Very Low (< 20)	***Low (20 – 50)***	*Medium (51 – 90)*	*High (91 – 130)*	*Very High (> 130)*
Slab Thickness (Min.): Nominal thickness except where noted.	4"	**4"**	4"	4"	4" Full
Subbase: Thickness of sand or gravel layer below concrete	N/A	**N/A**	Optional	2" – 4"	2" – 4"
Presaturation: Degree of optimum moisture content (opt.) and depth of saturation	Pre-wet Only	**1.1 x opt. to 6"**	1.2 x opt. to 12"	1.3 x opt. to 18"	1.4 x opt. to 24"
Joints: Maximum spacing of control joints. Joint should be ¼ of total thickness	10'	**10'**	8'	6'	6'
Reinforcement: Rebar or equivalent welded wire mesh placed near mid-height of slab	N/A	**N/A**	Optional (WWF 6 x 6 – W1.4xW1.4)	No. 3 rebar, 24" O.C. both ways or equivalent wire mesh	No. 3 rebar, 24" O.C. both ways
Restraint: Slip dowels across cold joints; between sidewalk and curb	N/A	**N/A**	Optional	Across cold joints	Across cold joints (and into curb)

3.12 Storm Water Treatment

No plans are currently available showing potential stormwater infiltration locations, or a proposed stormwater infiltration system; therefore the recommendations given in this section are preliminary and are based on limited percolation testing performed at two boring locations (see Figure 1). Additional percolation testing and analyses may be required at specific locations once plans showing proposed infiltration devices and locations are available.

The measured infiltration rate of 1.5 inches per hour represents the underlying soil in this area. A factor of safety of 2.0 should be used for design. Thus, a preliminary design infiltration rate of 0.75 inches per hour is recommended for the preliminary design of a stormwater treatment system.

The infiltration system should be sized and designed by a qualified engineer and adhere to local guidelines and regulations pertaining to treatment and infiltration of onsite stormwater. Special care should be taken so as to limit damage or disturbance to onsite soils in a manner that may affect infiltration in the area of the proposed infiltration system.

3.13 Trench Excavation and Backfill

Excavations should be performed in accordance with the requirements set forth by Cal/OSHA Excavation Safety Regulations (Construction Safety Orders, Section 1504, 1539 through 1547, Title 8, California Code of Regulations). In general, onsite soils are anticipated to be classified as Type "C" due to the low cohesion and sandy character. Cal/OSHA regulations apply to excavations that are up to 20 feet deep.

Trenches, including interior utility, should be either backfilled with native soil and compacted to 90 percent relative compaction, or backfilled with clean sand (SE 30 or better), which can be densified with water jetting and flooding (except for sewer and water lines under the jurisdiction of IRWD, which does not typically allow jetting of sands).

Trenches excavated on a graded slope-face, if any, for utility or irrigation lines and/or for any purpose should be properly backfilled and compacted in order to obtain a minimum 90 percent relative compaction to the slope face. Trenches excavated next to structures and foundations should also be properly backfilled and compacted to provide full lateral support and reduce settlement potential.

3.14 Drainage and Irrigation

Inadequate control of run-off water, heavy irrigation after development of the site, or regional groundwater level changes may result in shallow groundwater conditions where previously none existed. Maintaining adequate surface drainage, proper disposal of run-off water, and control of irrigation will help reduce the potential for future moisture-related problems and differential movements from soil heave/settlement.

Surface drainage should be carefully taken into consideration during grading, landscaping, and building construction. Positive surface drainage should be provided to direct surface water away from structures and slopes and toward the street or suitable drainage devices. Ponding of water adjacent to the structures should not be allowed. Paved areas should be provided with adequate drainage devices, gradients, and curbing to prevent run-off flowing from paved areas onto adjacent unpaved areas.

The performance of foundations is also dependent upon maintaining adequate surface drainage away from structures. The minimum gradient within 5 feet of the buildings will depend upon surface landscaping. In general, we suggest that unpaved turf and landscape areas have a minimum gradient of 2 percent away from structures.

Construction of planter areas immediately adjacent to structures should be avoided. If planter boxes are constructed adjacent to or near buildings, the sides and bottoms of the planter should be provided with a moisture barrier to prevent penetration of the irrigation water into the subgrade. Provisions should be made to drain excess irrigation water from the planters without saturating the subgrade below or adjacent to the planters. Raised planter boxes may be drained with weepholes. Deep planters (such as palm tree planters) should be drained with below-ground, water-tight drainage lines connected to a suitable outlet.

3.15 Future Geotechnical Plan Reviews

Future plans for the proposed project and the grading plan should be reviewed and accepted by the geotechnical consultant. Additional exploration, recommendations or modifications to the recommendations herein may be necessary at that time depending on the final plans. The geotechnical consultant should also review the foundation plans for conformance with the geotechnical design parameters and evaluate the foundation design impacts on total and differential settlement for the structures at the site.

3.16 Observation and Testing during Grading and Construction

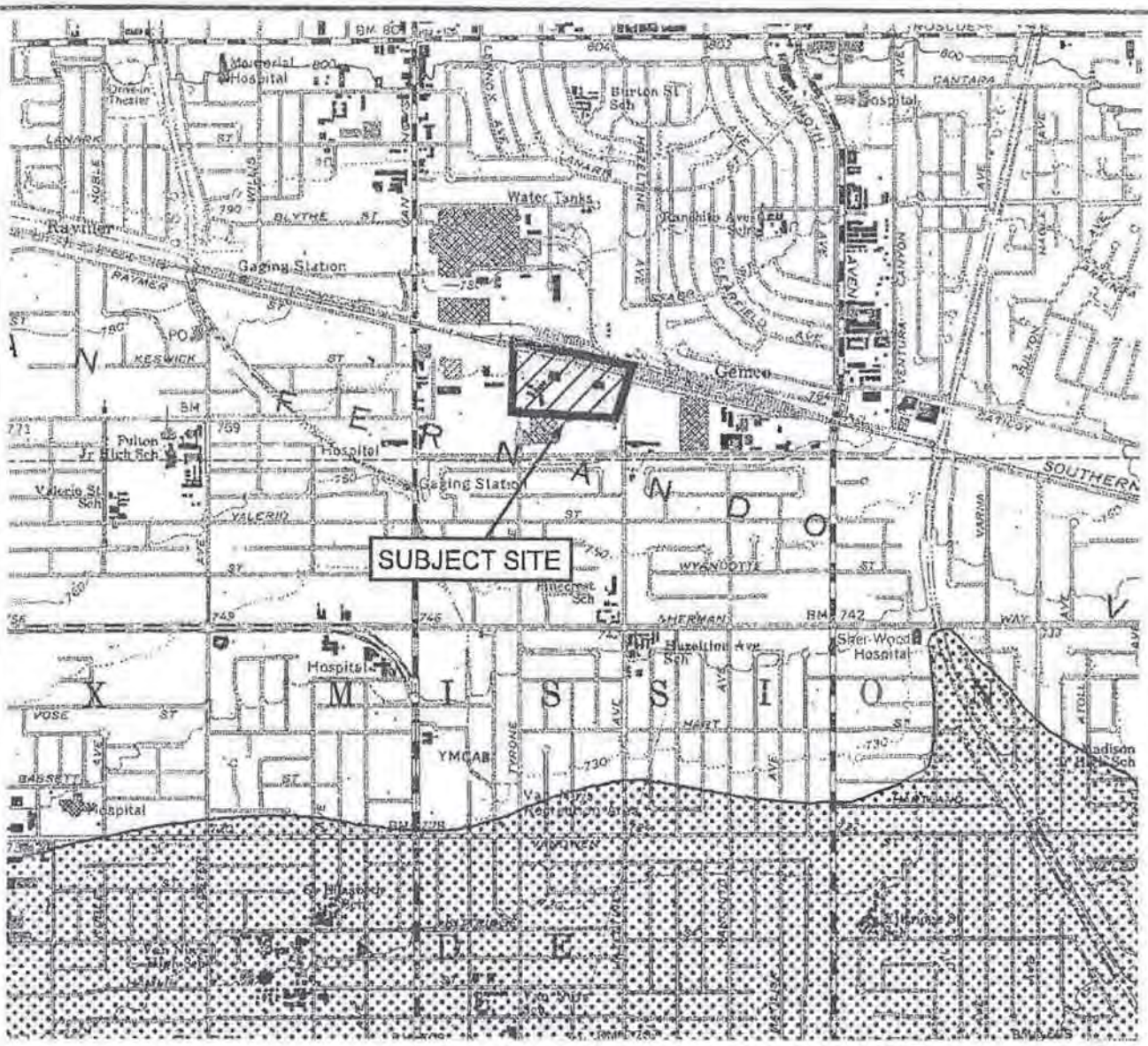
Geotechnical observation and testing should be performed by the geotechnical consultant of record during the following phases of grading and construction:

- During site preparation and clearing,
- During excavations to remove existing foundations and underground improvements;
- During earthwork, including observation and acceptance of remedial removal bottoms and fill placement;
- Following the completion of grading, in order to verify soil properties for foundations, slab-on-grade and pavements;
- Upon completion of any foundation or structural excavation, prior to pouring concrete;
- During slab and flatwork subgrade preparation prior to pouring of concrete;
- During placement of backfill for utility trenches;
- During placement of backfill for retaining structures;
- During installation and backfill of subdrainage systems (if any);
- During subgrade preparation and placement of aggregate base and asphaltic concrete; and
- When any unusual soil conditions are encountered.

3.17 Limitations

This report has been prepared for the exclusive use of our client, Shubin Nadal Realty Investors, within the scope of services requested by our client for the specific project in Van Nuys described herein. This report or its contents should not be used or relied upon for other projects or purposes, or by other parties without the acknowledgement of NMG and the consultation of a geotechnical professional. The means and methods used by NMG for this study are based on local geotechnical standards of practice, care, and requirements of governing agencies. No warranty or guarantee, expressed or implied, is given.

Our findings, conclusions, and recommendations are professional opinions based on interpretations and inferences made from geologic and engineering data from specific locations and depths, observed or collected at a given time. By nature, geologic conditions can vary from point to point, can be very different in-between exploration points, and can also change over time. Our conclusions and recommendations are, by nature, preliminary and subject to verification and/or modification by NMG during grading and construction when more subsurface data is exposed.



Liquefaction

Areas where historic occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

Earthquake-Induced Landslides

Areas where previous occurance of landslide movement, or local topographic, geological, geotechnical and subsurface water conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required.

SITE LOCATION AND SEISMIC HAZARDS MAP

BASE: U.S.G.S. SEISMIC HAZARDS MAP,
VAN NUYS QUADRANGLE
Dated: February 1, 1998

N

Scale 1:24,000

7600 TYRONE AVENUE, VAN NUYS
CITY OF LOS ANGELES, CALIFORNIA

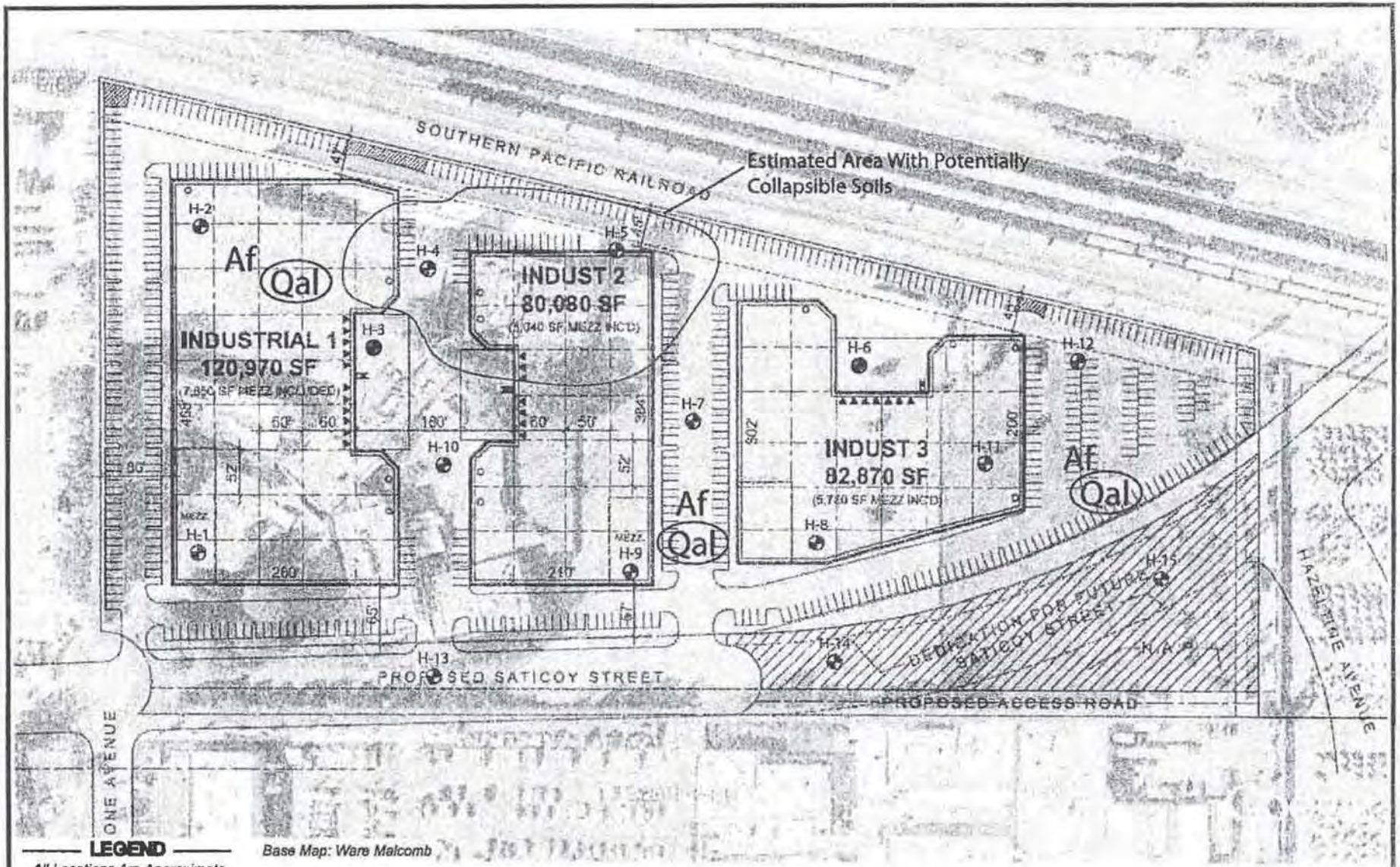
Project Number: 12069-01

Project Name: Shubin Nadal/Van Nuys

Date: 8-10-12 Figure No. 1

NMG Geotechnical, Inc.

12069-01\Drafting\Graphics\Illustrator\Seismic Site\loc.ai



LEGEND

All Locations Are Approximate

H-15 Hollow-Stem Auger Boring

H-6 Infiltration Test Location

Geologic Units - Circled Where Buried

Af Artificial Fill

Qal Alluvium

Base Map: Ware Malcomb

N

GEOTECHNICAL AND BORING LOCATION MAP
7600 Tyrone Ave
Van Nuys, California

Project Number: 12069-01

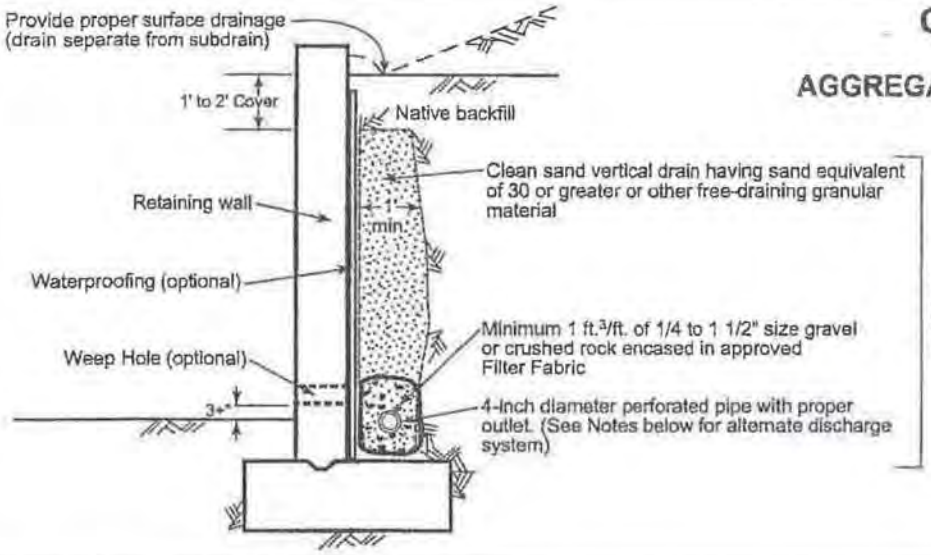
Project Name: Shubin Nadal / Van Nuys

Date: 8/10/12 Figure No. 2

NMG Geotechnical, Inc.

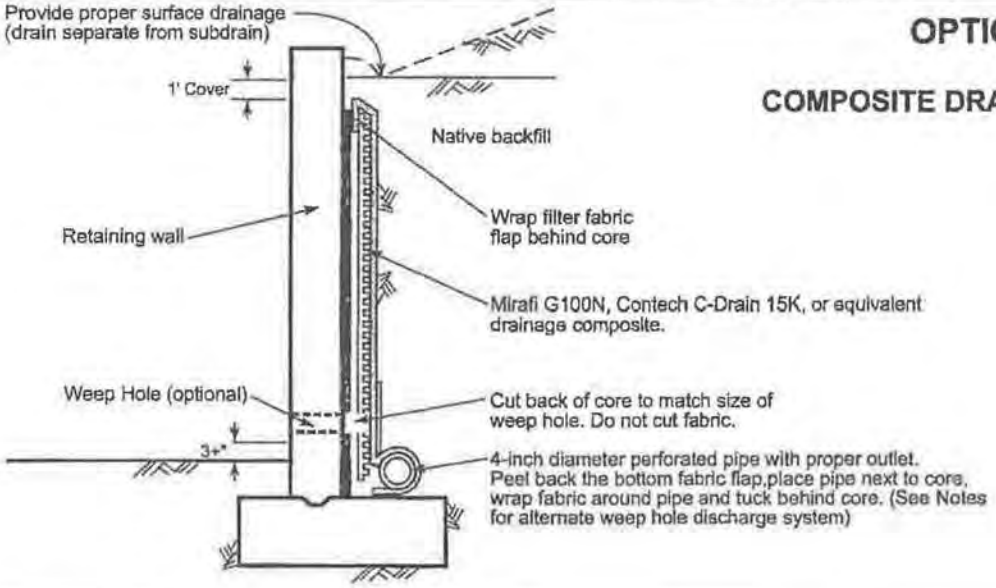
OPTION 1:

AGGREGATE SYSTEM DRAIN



OPTION 2:

COMPOSITE DRAINAGE SYSTEM



NOTES:

1. PIPE TYPE SHOULD BE PVC OR ABS, SCHEDULE 40 OR SDR35 SATISFYING THE REQUIREMENTS OF ASTM TEST STANDARD D1527, D1785, D2751 , OR D3034.
2. FILTER FABRIC SHALL BE APPROVED PERMEABLE NON-WOVEN POLYESTER, NYLON, OR POLYPROPYLENE MATERIAL.
3. DRAIN PIPE SHOULD HAVE A GRADIENT OF 1 PERCENT MINIMUM.
4. WATERPROOFING MEMBRANE MAY BE REQUIRED FOR A SPECIFIC RETAINING WALL (SUCH AS A STUCCO OR BASEMENT WALL).
5. WEEP HOLES MAY BE PROVIDED FOR LOW RETAINING WALLS (LESS THAN 3 FEET IN HEIGHT) IN LIEU OF A VERTICAL DRAIN AND PIPE AND WHERE POTENTIAL WATER FROM BEHIND THE RETAINING WALL WILL NOT CREATE A NUISANCE WATER CONDITION. IF EXPOSURE IS NOT PERMITTED, A PROPER SUBDRAIN OUTLET SYSTEM SHOULD BE PROVIDED.
6. IF EXPOSURE IS PERMITTED, WEEP HOLES SHOULD BE 2-INCH MINIMUM DIAMETER AND PROVIDED AT 25-FOOT MAXIMUM SPACING ALONG WALL. WEEP HOLES SHOULD BE LOCATED 3+ INCHES ABOVE FINISHED GRADE.
7. SCREENING SUCH AS WITH A FILTER FABRIC SHOULD BE PROVIDED FOR WEEP HOLES/OPEN JOINTS TO PREVENT EARTH MATERIALS FROM ENTERING THE HOLES/JOINTS.
8. OPEN VERTICAL MASONRY JOINTS (I.E., OMIT MORTAR FROM JOINTS OF FIRST COURSE ABOVE FINISHED GRADE) AT 32-INCH MAXIMUM INTERVALS MAY BE SUBSTITUTED FOR WEEP HOLES.
9. THE GEOTECHNICAL CONSULTANT MAY PROVIDE ADDITIONAL RECOMMENDATIONS FOR RETAINING WALLS DESIGNED FOR SELECT SAND BACKFILL.

RETAINING WALL DRAINAGE DETAIL

NMG Geotechnical, Inc.

APPENDIX A

APPENDIX A

REFERENCES

California Division of Mines and Geology, 1997 and updated 2008, Guidelines for Evaluation and Mitigating Seismic Hazards in California, Special Publications 117 and 117A.

California Division of Mines and Geology, 1999, Fault-Rupture Hazard Zones in California, Special Publication 42, Revised 1997, 1 and 2 added 1999.

California Division of Mines and Geology, 1997, Seismic Hazard Zone Report for the Van Nuys 7.5-Minute Quadrangle, Los Angeles County, California, SHZR 08

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California Division of Mines and Geology, 2003, Fault-Rupture Hazard Zones in California, Special Publication 42, Revised 1997, Supplement 3 added 2003, Authored by Hart, E. W. and Bryant, W. A.

Jennings, C. W., 1994 (Revised 2010), Fault Activity Map of California and Adjacent Areas, with Locations and Ages of Recent Volcanic Eruptions, California Department of Conservation, Division of Mines and Geology, Geologic Data Map No. 6.

County of Los Angeles Administrative Manual, 2011, Low Impact Development Best Management Practice Guideline For Design, Investigation, And Reporting, Department of Public Works, Geotechnical and Materials Engineering Division, dated June 1, 2011.

U.S. Geological Survey, 2005, Preliminary Digital Geologic Map of the Los Angeles 30' X 60' Quadrangle, Southern California, dated 2005, CGS Open File Report 2005-1019.

U. S. Geological Survey, 2008, 2002 Interactive Deaggregations Program, Updated August 19, 2008; web site address: http://eqint.cr.usgs.gov/deaggint/2002/.

U.S. Geological Survey, 2011, Seismic Hazards Curves, Response Parameters and Design Parameters, Version 5.1.0, dated February 10, 2011; web site address: http://earthquake.usgs.gov/research/hazmaps/design

APPENDIX B

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS		TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
				GP	POORLY GRADED GRAVELS, GRAVEL - SAND MIXTURES, LITTLE OR NO FINES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
				SP	POORLY GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SANDY OR SILTY SOILS, ELASTIC SILTS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Dual symbols are used to indicate gravels or sand with 5-12% fines and soils with fines classifying as CL-ML. Symbols separated by a slash indicate borderline soil classifications.

Sampler and Symbol Descriptions

- Modified California sample (63.5 mm diameter)
- Standard Penetration Test
- Undisturbed pushed tube sample
- Large bulk sample
- Small bulk sample
- Approximate depth of perched water or groundwater

Note: Number of blows required to advance driven sample 300 mm (or length noted) is recorded; blow count recorded for seating interval (initial 150 mm of drive) is indicated by an asterisk.

Laboratory and Field Test Abbreviations

MD	Laboratory compaction test
CN	Laboratory consolidation test
DS	Laboratory direct shear test
AL	Atterberg limits
SE	Sand Equivalent
GS	Grain Size Analysis (Sieve and/or Hydro.)
RV	R-Value
CC	Chemical Testing incl. Soluble Sulfate
EI	Expansion Index
UU	Unconsolidated Shear Strength

GENERAL NOTES

1. Station location is indicated with offset to right (R) or left (L) of centerline (CL).
2. Soil classifications are based on the Unified Soil System and include color, moisture, and relative density or consistency. Field descriptions have been modified to reflect results of laboratory tests where deemed appropriate. Bedrock descriptions are based on visual classification and include rock type, moisture, color, grain size, strength, and weathering.
3. Descriptions on these boring logs apply only at the specific boring locations and at the time the borings were made. They are not warranted to be representative of subsurface conditions at other locations or times.

KEY TO LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.

Report: HOLLOW STEM; Project: P:\2012\12069-01\GINT\12069-01.GPJ; Data Template: NMGNOV98.GDT; Printed: 11/13/12

Date(s) Drilled	6/25/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Bulk, Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

H-1

Sheet 1 of 2

Total Depth Drilled (ft)	31.5
Approximate Ground Surface Elevation (ft)	770.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
770	0						Surface: 3 inches of Asphaltic Concrete (AC).			
						SM	4 inches of Aggregate Base (AB).			
							Artificial Fill (Af)			
			D-1	13			@ 2.5' Yellowish brown fine-grained silty SAND, damp, medium dense, micaceous.	1.8	107.5	B-1 @ 0'-5', RV, MD, GS
	5		D-2	13			@ 5' Yellowish brown fine-grained silty SAND, damp, medium dense, micaceous.	1.3	105.6	
			D-3	25		SP	**Alluvium (Qal)** @ 7.5' Yellowish brown gravelly SAND, damp, dense, friable, 0.25 inch gravel.	1.0		Sample Disturbed, GS
760	10		D-4	44			@ 10' Yellowish brown gravelly SAND, damp, very dense, friable.	1.3		Sample Disturbed
	15		D-5	18		ML	@ 15' Light yellowish brown fine-grained sandy SILT, moist, medium stiff, slightly plastic, slightly porous, massive, micaceous.	10.9	95.9	
750	20		D-6	26			@ 20' Light yellowish brown fine-grained sandy SILT, moist, medium stiff, slightly plastic, slightly porous, massive, micaceous.	7.8	108.6	
	25		D-7	23			@ 25' Light yellowish brown fine-grained sandy SILT, moist, medium stiff, slightly plastic, slightly porous, massive, micaceous, slight $CaCO_3$ stringers, slightly laminated.	11.4	104.8	
740	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
740	30		D-8	26			@ 30' Light yellowish brown fine-grained sandy SILT, moist, medium stiff, slightly plastic, slightly porous, massive, micaceous, slight $CaCO_3$ stringers, slightly laminated.	9.1	105.3	
							Notes: Total Depth: 31.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings. AC Patched.			
	35									
730	40									
	45									
720	50									
	55									
710	60									
	65									

LOG OF BORING
Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Date(s) Drilled	8/25/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

H-10

Sheet 1 of 2

Total Depth Drilled (ft)	31.5
Approximate Ground Surface Elevation (ft)	771.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0						Surface: 4 inches of Asphaltic Concrete (AC).			
770							5 inches of Aggregate Base (AB).			
						SM	**Artificial Fill**			
			D-1	7			@ 2.5' Yellowish brown fine-grained silty SAND, moist, medium dense, micaceous, massive.	7.3	113.9	
	5		D-2	11		ML	**Alluvium (Qal)** @ 5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, massive, slightly plastic.	13.5	90.3	CN
			D-3	10			@ 7.5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, massive, slightly plastic.	14.9	111.6	
760	10		D-4	11			@ 10' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, massive, slightly plastic.	15.1	115.1	
	15		D-5	13			@ 15' Yellowish brown clayey SILT, moist, medium stiff, micaceous, massive, plastic, slightly laminated.	18.0	102.1	
750	20		D-6	17			@ 20' Yellowish brown clayey SILT, moist, medium stiff, micaceous, massive, plastic, slightly laminated.	14.5	112.5	
	25		D-7	14			@ 25' Yellowish brown clayey SILT, moist, medium stiff, micaceous, massive, plastic, laminated.	16.9	107.2	
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	30	D	8	20			@ 30' Yellowish brown clayey SILT, moist, medium stiff, micaceous, massive, plastic, porous, slightly laminated.	13.9	112.5	
-740										
							Notes: Total Depth: 31.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings. AC Patched.			
	35									
	40									
-730										
	45									
	50									
-720										
	55									
	60									
-710										
	65									

LOG OF BORING
Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Date(s) Drilled	6/26/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

H-11

Sheet 1 of 2

Total Depth Drilled (ft)	31.5
Approximate Ground Surface Elevation (ft)	772.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0					SM	**Artificial Fill (Af)** Surface: Yellowish brown silty SAND, dry, grass, weeds.			
-770			D-1	16			@ 2.5' Yellowish brown fine-grained silty SAND, moist, medium dense, micaceous, massive, trace gravel.	5.9	119.1	
	5		D-2	8		ML	**Alluvium (Qal)** @ 5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, massive.	10.6	107.7	CN
			D-3	12			@ 7.5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, massive.	12.4	108.2	
	10		D-4	10			@ 10' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, massive.	15.7	109.0	
-760										
	15		D-5	11			@ 15' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, massive, trace gravel, trace root-hairs.	16.9	105.1	
	20		D-6	32		SP-SM	@ 20' Light yellowish brown medium-grained SAND/ silty SAND, moist, dense, micaceous, trace gravel.	2.7	112.6	
-750										
	25		D-7	12				11.2	98.1	
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	30	D	8	14		SP	@ 30' Light olive brown silty gravelly SAND, moist, medium dense, 3/4" gravel.	8.9	119.7	
-740							Notes: Total Depth: 31.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings.			
	35									
	40									
-730										
	45									
	50									
-720										
	55									
	60									
-710										
	65									

LOG OF BORING
Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Date(s) Drilled	6/26/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Bulk, Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

H-12

Sheet 1 of 2

Total Depth Drilled (ft)	31.5
Approximate Ground Surface Elevation (ft)	774.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0					SM	**Artifcial Fill (Af)** Surface: Yellowish brown silty SAND, dry, weeds, roots.			
			D-1	14			@ 2.5' Yellowish brown fine-grained silty SAND, moist, medium dense, micaceous, rock fragments, roots, massive.	5.8	106.8	B-1 @ 0'-5', CC, RV, MD, AL, GS, EI
770	5		D-2	14		ML	**Alluvium (Qal)** @ 5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, trace gravel, trace root-hairs, massive.	9.3	109.5	
			D-3	14			@ 7.5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, trace gravel, massive.	6.7	116.7	
	10		D-4	12			@ 10' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, trace gravel, massive.	12.6	109.0	
760	15		D-5	18			@ 15' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, trace gravel, massive, slightly plastic.	14.4	107.1	
	20		D-6	17		SP-SM	@ 20' Light yellowish brown fine-grained SAND/ silty SAND, moist, dense, micaceous, trace gravel.	3.0	104.0	
750	25		D-7	20		ML	@ 25' Light yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, slightly laminated, non-plastic.	4.8	99.4	
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	30	D	8	15			@ 30' Reddish brown fine-grained sandy SILT, moist, stiff, micaceous, massive.	7.0	117.8	
-740	35						Notes: Total Depth: 31.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings.			
	40									
-730	45									
	50									
-720	55									
	60									
-710	65									

LOG OF BORING
Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Date(s) Drilled	6/26/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

H-13

Sheet 1 of 1

Total Depth Drilled (ft)	11.5
Approximate Ground Surface Elevation (ft)	769.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0						Surface: 4 inches of Asphaltic Concrete (AC).			
							7 inches of Aggregate Base (AB).			
						SM	**Alluvium (Qal)**			
			D-1	24			@ 2.5' Yellowish brown fine-grained silty SAND, moist, dense, micaceous, thin root-hairs, trace gravel, massive.	3.2	120.1	
	5		D-2	27			@ 5' Yellowish brown fine-grained silty SAND, moist, dense, micaceous, thin root-hairs, trace gravel, massive.	4.4	116.5	
			D-3	21			@ 7.5' Yellowish brown fine-grained silty SAND, moist, dense, micaceous, thin root-hairs, trace gravel, massive.	2.6	116.0	
760	10		D-4	23		SM-ML	@ 2.5' Yellowish brown fine-grained silty SAND/ sandy SILT, moist, stiff to dense, micaceous, thin root-hairs, trace gravel, massive, slightly porous.	5.5	112.3	
							Notes: Total Depth: 11.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings. AC Patched.			
	15									
750	20									
	25									
740	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Report: HOLLOW STEM; Project: P:\2012\12069-01\GINT\12069-01.GPJ; Data Template: NMGNOV98.GDT; Printed: 11/13/12

Date(s) Drilled	6/26/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Bulk, Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

H-14

Sheet 1 of 1

Total Depth Drilled (ft)	11.5
Approximate Ground Surface Elevation (ft)	771.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0						Surface: 3.5 inches of Asphaltic Concrete (AC).			
770						SM	4 Inches of Aggregate Base (AB).			
							Artificial Fill (Af)			
			D-1	27			@ 2.5 Yellowish brown fine-grained silty SAND, moist, dense, micaceous, trace gravel, massive.	10.4	120.1	B-1 @ 0'-5'
	5		D-2	7		ML	**Alluvium (Qal)** @ 5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, non-plastic, thin root-hairs, slightly porous, massive.	10.9	116.5	
			D-3	13		SM-ML	@ 7.5' Yellowish brown fine-grained sandy SILT/ silty SAND, moist, medium stiff to medium dense, micaceous, non-plastic, massive.	12.3	116.0	
760	10		D-4	11		ML	@ 10' Yellowish brown fine-grained sandy SILT, moist, medium stiff, non-plastic, slight $CaCO_3$.	12.2	112.3	
							Notes: Total Depth: 11.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings. AC Patched.			
	15									
750	20									
	25									
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Date(s) Drilled	6/26/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Bulk, Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

H-15

Sheet 1 of 1

Total Depth Drilled (ft)	11.5
Approximate Ground Surface Elevation (ft)	771.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
770	0					SM	**Artificial Fill (Af)** Surface: Yellowish brown silty SAND, dry, grass.			
			D-1	17			@ 2.5' Yellowish brown fine-grained silty SAND, moist, medium dense, micaceous, massive, trace gravel.	8.7	116.1	B-1 @ 0'-5'
	5		D-2	8		ML	**Alluvium (Qal)** @ 5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, non-plastic.	12.8	104.0	
			D-3	14			@ 7.5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, non-plastic.	12.0	109.3	
760	10		D-4	12			@ 10' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, non-plastic.	11.1	101.9	
							Notes: Total Depth: 11.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings.			
	15									
750	20									
	25									
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Date(s) Drilled	6/25/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

H-2

Sheet 1 of 2

Total Depth Drilled (ft)	31.5
Approximate Ground Surface Elevation (ft)	772.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0					SM	Surface: 2 inches of Asphaltic Concrete (AC), No Base.			
							Artificial Fill (Af) Yellowish brown fine-grained silty SAND, moist.			
770						ML	**Alluvium (Qal)**			
			D-1	7			@ 2.5' Yellowish brown fine-grained sandy SILT, moist, soft, micacious, slightly plastic.	12.6	101.6	
	5		D-2	10			@ 5' Yellowish brown fine-grained sandy SILT, moist, soft, micacious, slightly plastic, slightly porous, massive.	12.6	112.8	DS
			D-3	15			@ 7.5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micacious, slightly plastic, slightly porous, massive.	8.1	115.1	
	10		D-4	15			@ 10' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micacious, slightly plastic, massive, trace gravel.	7.0	109.0	
760										
	15		D-5	15			@ 15' Yellowish brown fine-grained sandy clayey SILT, moist, medium stiff, micacious, plastic, slightly porous, laminated.	14.1	100.4	
	20		D-6	18			@ 20' Yellowish brown fine-grained sandy SILT, moist, stiff, slight $CaCO_3$ stringers, slightly plastic, micaceous.	16.1	111.0	
750										
	25		D-7	20		ML-CL	@ 25' Yellowish brown fine-grained sandy SILT, moist, stiff, slight $CaCO_3$ stringers, slightly plastic, micaceous. Tip: Reddish brown clayey SILT/ silty CLAY, moist, stiff, plastic, micaceous, porous.	14.5	110.5	
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
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NMG

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	30	D	8	27			@ 30' Reddish brown clayey SILT/ silty CLAY, moist, stiff, plastic, porous, micaceous.	20.0	106.7	
740							Notes: Total Depth: 31.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings. AC Patched.			
	35									
	40									
730										
	45									
	50									
720										
	55									
	60									
710										
	65									

LOG OF BORING
Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Date(s) Drilled	6/26/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Bulk, Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

H-3

Sheet 1 of 1

Total Depth Drilled (ft)	14.0
Approximate Ground Surface Elevation (ft)	772.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0					SM-ML	Surface: 3 inches of Asphaltic Concrete (AC), No Base.			
							Artificial Fill (Af)			
770			D-1	9			@ 2.5' Yellowish brown fine-grained sandy SILT/ silty SAND, moist, medium stiff to medium dense, micaceous, massive, slightly plastic.	5.9	113.6	
	5		D-2	9		ML	**Alluvium (Qal)** @ 5' Yellowish brown fine-grained sandy SILT/ silty SAND, moist, medium stiff to medium dense, micaceous, massive, slightly plastic.	12.1	109.6	
			D-3	10			@ 7.5' Yellowish brown fine-grained sandy SILT/ silty SAND, moist, medium stiff to medium dense, micaceous, massive, non-plastic.	13.0	106.6	B-1 @ 5'-10', CC, AL, GS, EI
	10		D-4	9			@ 10' Yellowish brown fine-grained sandy SILT/ silty SAND, moist, medium stiff to medium dense, micaceous, massive, non-plastic, slight $CaCO_3$.	10.5	110.8	
760			D-5	10			@ 12.5' Yellowish brown fine-grained sandy SILT/ silty SAND, moist, medium stiff to medium dense, micaceous, massive, non-plastic, slight $CaCO_3$.	10.2	107.0	
	15						Notes: Total Depth: 14 Feet. Groundwater Not Encountered. Percolation Test. Backfilled with Cuttings. AC Patched.			
	20									
750										
	25									
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Date(s) Drilled	6/25/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

H-4

Sheet 1 of 2

Total Depth Drilled (ft)	31.5
Approximate Ground Surface Elevation (ft)	773.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0						Surface: 2 inches of Asphaltic Concrete (AC).			
						SM	4 inches of Aggregate Base (AB).			
							Artificial Fill (Af)			
770		D	1	22			@ 2.5' Yellowish brown fine-grained silty SAND, moist, medium dense, massive.	3.7	115.3	
	5	D	2	25		ML	**Alluvium (Qal)** @ 5' Light yellowish brown fine-grained sandy SILT, moist, medium stiff, slightly plastic, micaceous, porous, massive.	6.6	106.9	Collapse
		D	3	23			@ 7.5' Light yellowish brown fine-grained sandy SILT, moist, medium stiff, slightly plastic, micaceous, porous, massive.	5.5 6.2 5.3	104.5 102.9 97.4	CN, Collapse
	10	D	4	25			@ 10' Light yellowish brown fine-grained sandy SILT, moist, medium stiff, slightly plastic, micaceous, porous, massive, slight $CaCO_3$.	7.6	109.1	
760										
	15	D	5	24			@ 15' Light yellowish brown fine-grained sandy SILT, moist, medium stiff, slightly plastic, micaceous, porous, massive, slight $CaCO_3$.	8.9	99.0	
	20	D	6	23			@ 20' Light yellowish brown fine-grained sandy SILT, moist, medium stiff, slightly plastic, slightly porous, local silty SAND layers.	4.2	106.6	
750										
	25	D	7	29			@ 25' Light yellowish brown fine-grained sandy SILT, moist, stiff to hard, porous, slight $CaCO_3$.	5.8	109.3	
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	30	D	8	28			@ 30' Reddish brown fine-grained sandy SILT, moist, stiff to hard, porous, slight $CaCO_3$.	8.8	110.8	
-740	35						Notes: Total Depth: 31.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings. AC Patched.			
-730	40									
-720	45									
-710	50									
	55									
	60									
	65									

LOG OF BORING
Shubin Nadal / Van Nuys
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PROJECT NO. 12069-01

NMG

Date(s) Drilled	6/25/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

H-5

Sheet 1 of 2

Total Depth Drilled (ft)	31.5
Approximate Ground Surface Elevation (ft)	774.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0						Surface: 4 inches of Asphaltic Concrete (AC).			
						SM	3 inches of Aggregate Base (AB).			
							Artificial Fill (Af)			
							@ 2.5' Yellowish brown fine-grained silty SAND, moist, medium dense, slightly porous, massive, root-hairs.			
		Ring	D-1	10				3.9	107.4	
770										
	5					SM-ML	**Alluvium (Qal)**			
		Ring	D-2	19			@ 5' Yellowish brown fine-grained sandy SILT/ silty SAND, moist, medium stiff to medium dense, slightly porous, massive, root-hairs.	5.1	103.9	Collapse
		Ring	D-3	18			@ 7.5' Yellowish brown fine-grained sandy SILT/ silty SAND, moist, medium stiff to medium dense, slightly porous, massive, root-hairs.	3.5	114.0	
	10	Ring	D-4	21		ML	@ 10' Yellowish brown fine-grained sandy SILT, moist, stiff, porous, slight $CaCO_3$, trace root-hairs, slightly plastic.	8.4	107.5	
760										
	15	Ring	D-5	20			@ 15' Yellowish brown fine-grained sandy SILT, moist, stiff, porous, slight $CaCO_3$, slightly plastic.	10.7	104.5	
	20	Ring	D-6	25			@ 20' Light yellowish brown fine-grained sandy SILT, moist, stiff, massive, trace root-hairs, micaceous.	7.7	108.3	
750										
	25	Ring	D-7	22		SM	@ 25' Light yellowish brown fine-grained silty SAND, moist, dense, micaceous.	4.5	111.4	
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	30		D-8	23		SM-ML	@ 30' Reddish brown fine-grained silty SAND/ sandy SILT, moist, stiff to dense, porous, slightly micaceous, massive, slightly plastic, trace gravel.	8.0	117.6	
-740	35						Notes: Total Depth: 31.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings. AC Patched.			
	40									
-730	45									
	50									
-720	55									
	60									
-710	65									

LOG OF BORING
Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Date(s) Drilled	6/26/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

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Sheet 1 of 1

Total Depth Drilled (ft)	9.0
Approximate Ground Surface Elevation (ft)	775.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0						Surface: 3 inches of Asphaltic Concrete (AC).			
						SM	3 inches of Aggregate Base (AB).			
							Artificial Fill (Af)			
			D-1	25			@ 2.5' Yellowish brown fine-grained sandy SILT/ silty SAND, moist, medium loose, micaceous, massive.	9.0	121.5	
770	5		D-2	6		SM-ML	**Alluvium (Qal)** @ 5' Yellowish brown fine-grained sandy SILT/ silty SAND, moist, medium stiff to medium dense, micaceous, massive, non-plastic.	10.0	107.0	
			D-3	13		ML	@ 7.5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, massive.	17.3	108.3	
	10						Notes: Total Depth: 9 Feet. Groundwater Not Encountered. Percolation Test. Backfilled with Cuttings. AC Patched.			
760	15									
	20									
750	25									
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG

Report: HOLLOW STEM; Project: P:\2012\12069-01\GINT\12069-01.GPJ; Data Template: NMGNOV98.GDT; Printed: 11/13/12

Date(s) Drilled	6/25/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Bulk, Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

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Sheet 1 of 2

Total Depth Drilled (ft)	31.5
Approximate Ground Surface Elevation (ft)	773.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0						Surface: 3 inches of Asphaltic Concrete (AC).			
						SM	5 inches of Aggregate Base (AB).			
							Artificial Fill (Af)			
770			D-1	30			@ 2.5' Brown fine-grained silty SAND, moist, dense, micaceous, massive, trace gravel.	9.7	126.0	B-1 @ 0'-5'
	5		D-2	8		SM-ML	**Alluivum (Qal)** @ 5' Brown fine-grained sandy SILT/ silty SAND, moist, medium stiff to medium dense, micaceous, slightly plastic.	10.7	112.6	
			D-3	10			@ 7.5' Brown fine-grained sandy SILT/ silty SAND, moist, medium stiff to medium dense, micaceous, slightly plastic.	11.0	115.7	DS
	10		D-4	8		ML	@ 10' Brown clayey SILT, medium stiff, micaceous, plastic.	23.1	100.4	
760										
	15		D-5	9			@ 15' Brown clayey SILT, medium stiff, micaceous, plastic.	16.3	107.9	
	20		D-6	25		SM	@ 20' Light reddish brown silty SAND, dense, micaceous.	6.6	105.8	
750										
	25		D-7	21			@ 25' Light reddish brown silty SAND, dense, micaceous. Tip: Gravelly SAND	6.0	112.9	
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
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NMG

Elevation (ft)	Depth (ft)	SAMPLES Type Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	30	D-8	13			@ 30' Reddish brown fine-grained silty SAND, medium dense, trace gravel.	13.1	117.0	
-740						Notes: Total Depth: 31.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings. AC Patched.			
	35								
	40								
-730									
	45								
	50								
-720									
	55								
	60								
-710									
	65								

LOG OF BORING
Shubin Nadal / Van Nuys
Van Nuys, California

PROJECT NO. 12069-01

NMG

Date(s) Drilled	6/26/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

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Sheet 1 of 2

Total Depth Drilled (ft)	31.5
Approximate Ground Surface Elevation (ft)	773.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0						Surface: 3.5 inches of Asphaltic Concrete (AC).			
						SM	2 inches of Aggregate Base (AB).			
							Artificial Fill (Af)			
770			D-1	34			@ 2.5' Brown fine-grained silty SAND, moist, medium loose, micaceous, massive.	9.0	124.6	
	5		D-2	6		ML	**Alluvium (Qal)** @ 5' Yellowish brown fine-grained sandy SILT, moist, soft, micaceous, massive.	11.0	104.9	DS
			D-3	10			@ 7.5' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, massive.	13.0	110.3	
	10		D-4	8			@ 10' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, massive.	12.7	112.3	
760										
	15		D-5	12			@ 15' Yellowish brown fine-grained sandy SILT, moist, medium stiff, micaceous, massive, slightly laminated, slightly plastic.	17.1	110.4	
	20		D-6	20		SM	@ 20' Light yellowish brown fine-grained silty SAND, moist, dense, micaceous.	8.9	108.9	
750										
	25		D-7	17		ML	@ 25' Yellowish brown clayey SILT, moist, medium stiff, micaceous, locally plastic.	18.4	100.0	
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California
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NMG

Elevation (ft)	Depth (ft)	SAMPLES Type Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	30	D-8	17			@ 30' Reddish brown fine-grained sandy SILT, moist, stiff, micaceous, slightly laminated.	14.4	114.2	
740						Notes: Total Depth: 31.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings. AC Patched.			
	35								
	40								
730									
	45								
	50								
720									
	55								
	60								
710									
	65								

LOG OF BORING
Shubin Nadal / Van Nuys
Van Nuys, California

PROJECT NO. 12069-01

NMG

Report: HOLLOW STEM; Project: P:\2012\12069-01\GINT\12069-01.GPJ; Data Template: NMGNOV08.GDT; Printed: 11/13/12

Date(s) Drilled	6/25/12	Logged By	CD
Drilling Company	2R Drilling	Drill Bit Size/Type	8"
Drill Rig Type	CME 55	Hammer Data	140 lbs @ 30" drop (auto)
Sampling Method(s)	Modified California		
Approximate Groundwater Depth:	Groundwater Not Encountered		
Comments			

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Sheet 1 of 2

Total Depth Drilled (ft)	31.5
Approximate Ground Surface Elevation (ft)	771.0

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
	0						Surface: 3.5 inches of Asphaltic Concrete (AC).			
770						SM-ML	4 inches of Aggregate Base (AB).			
							Artificial Fill (Af)			
			D-1	7			@ 2.5' Brown fine-grained silty SAND/ sandy SILT, moist, medium dense, micaceous, massive.	11.3	112.4	
	5		D-2	10		ML	**Alluvium (Qal)** @ 5' Brown fine-grained sandy SILT, moist, medium stiff, micaceous, slightly plastic.	13.0	114.5	
			D-3	10			@ 7.5' Brown fine-grained sandy SILT, moist, medium stiff, micaceous, slightly plastic.	17.6	106.9	
760	10		D-4	11			@ 10' Yellowish brown clayey SILT, moist, medium stiff, micaceous, plastic, slight $CaCO_3$, slightly laminated.	20.3	105.4	
	15		D-5	13			@ 15' Yellowish brown clayey SILT, moist, medium stiff, micaceous, plastic, slight $CaCO_3$, slightly laminated.	16.4	107.0	
750	20		D-6	11		SM	@ 20' Yellowish brown fine-grained silty SAND, moist, medium dense, micaceous, massive, local sand.	10.3	103.8	
	25		D-7	25			@ 25' Reddish brown fine-grained silty SAND, moist, dense, micaceous, FeO staining.	19.3	99.9	
	30									

LOG OF BORING

Shubin Nadal / Van Nuys
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PROJECT NO. 12069-01

NMG

Elevation (ft)	Depth (ft)	SAMPLES Type	SAMPLES Number	SAMPLES Blows per foot	Graphic Log	USCS	MATERIAL DESCRIPTION	Moisture Content (%)	Dry Density (pcf)	OTHER TESTS and REMARKS
-740	30		D-8	30			@ 30' Reddish brown silty SAND, moist, dense, micaceous, scattered gravel.	10.3	128.1	
							Notes: Total Depth: 31.5 Feet. Groundwater Not Encountered. Backfilled with Cuttings. AC Patched.			
-730	40									
-720	50									
-710	60									
	65									

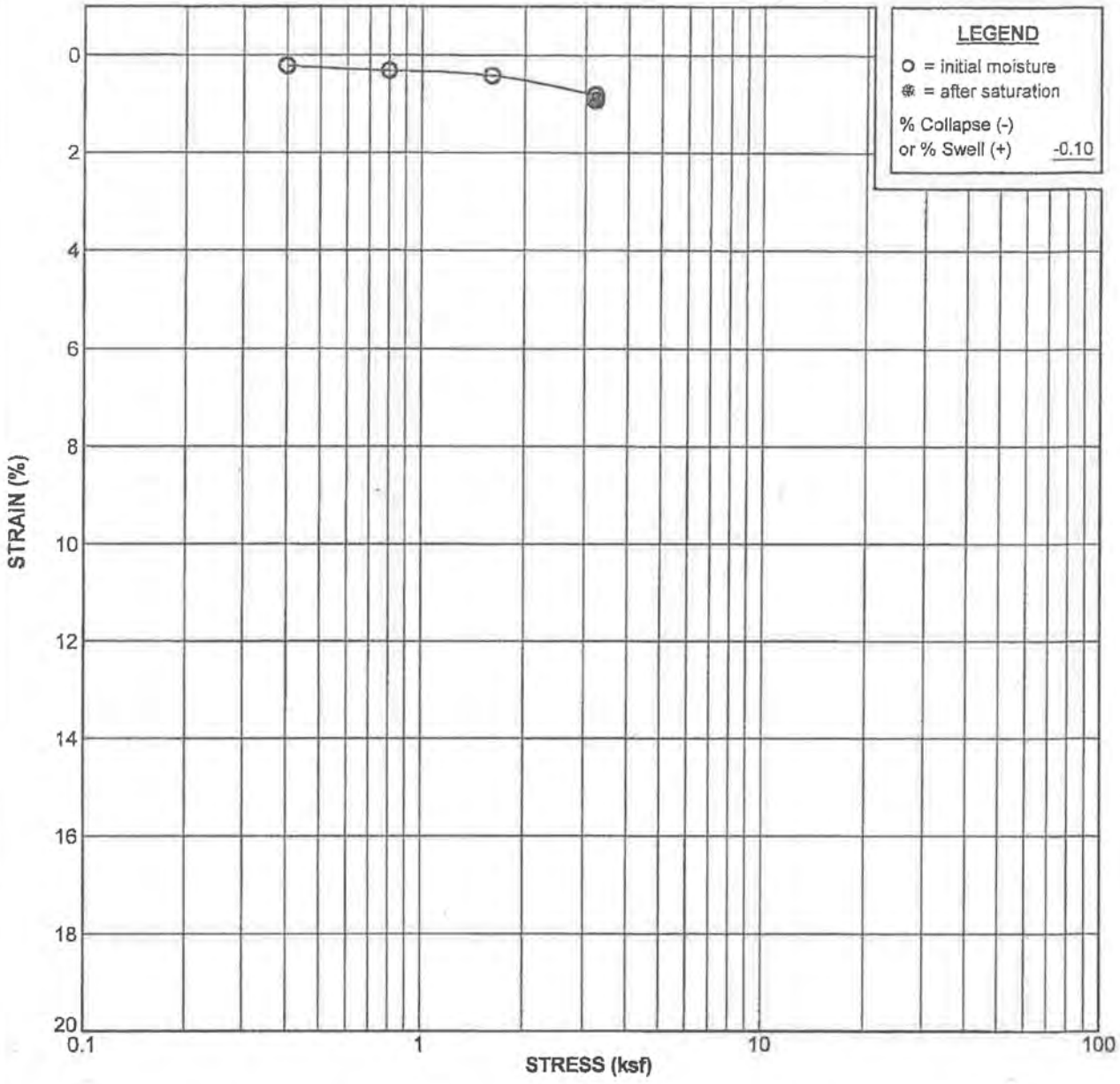
LOG OF BORING

Shubin Nadal / Van Nuys
Van Nuys, California

PROJECT NO. 12069-01

NMG

APPENDIX C



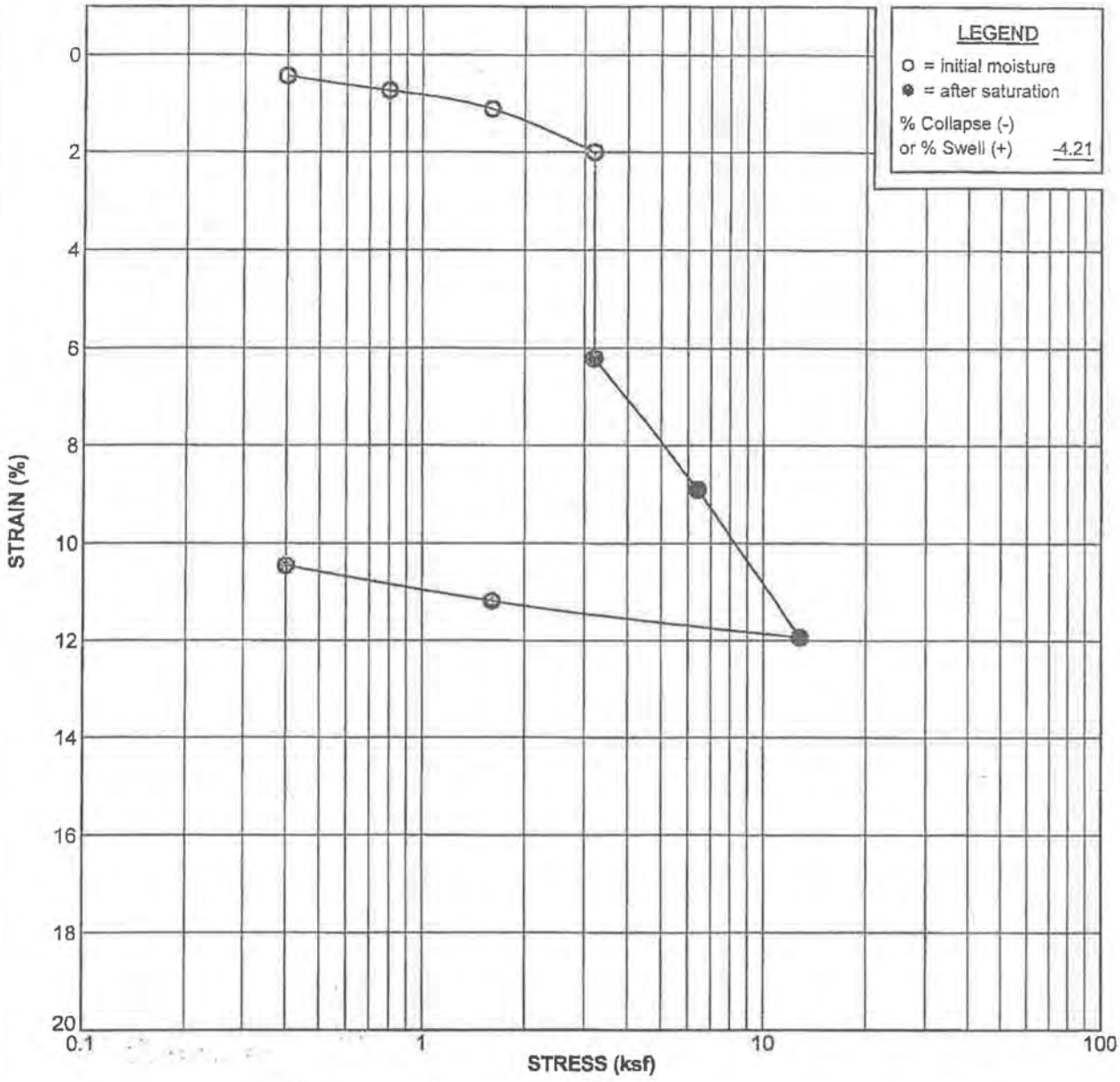
Boring No. H-4	Sample No. D-2	Depth: 5.0 ft
Sample Description:	Light Yellowish Brown Fine-Grained Sandy SILT	
Liquid Limit:	Plasticity Index:	Percent Passing No. 200 Sieve:

Test Stage	Moisture Content (%)	Dry Density (pcf)	Degree of Saturation (%)	Void Ratio
Initial	5.9	106.8	27.6	0.578
Final	21.8	107.7	104.3	0.564

CONSOLIDATION TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.



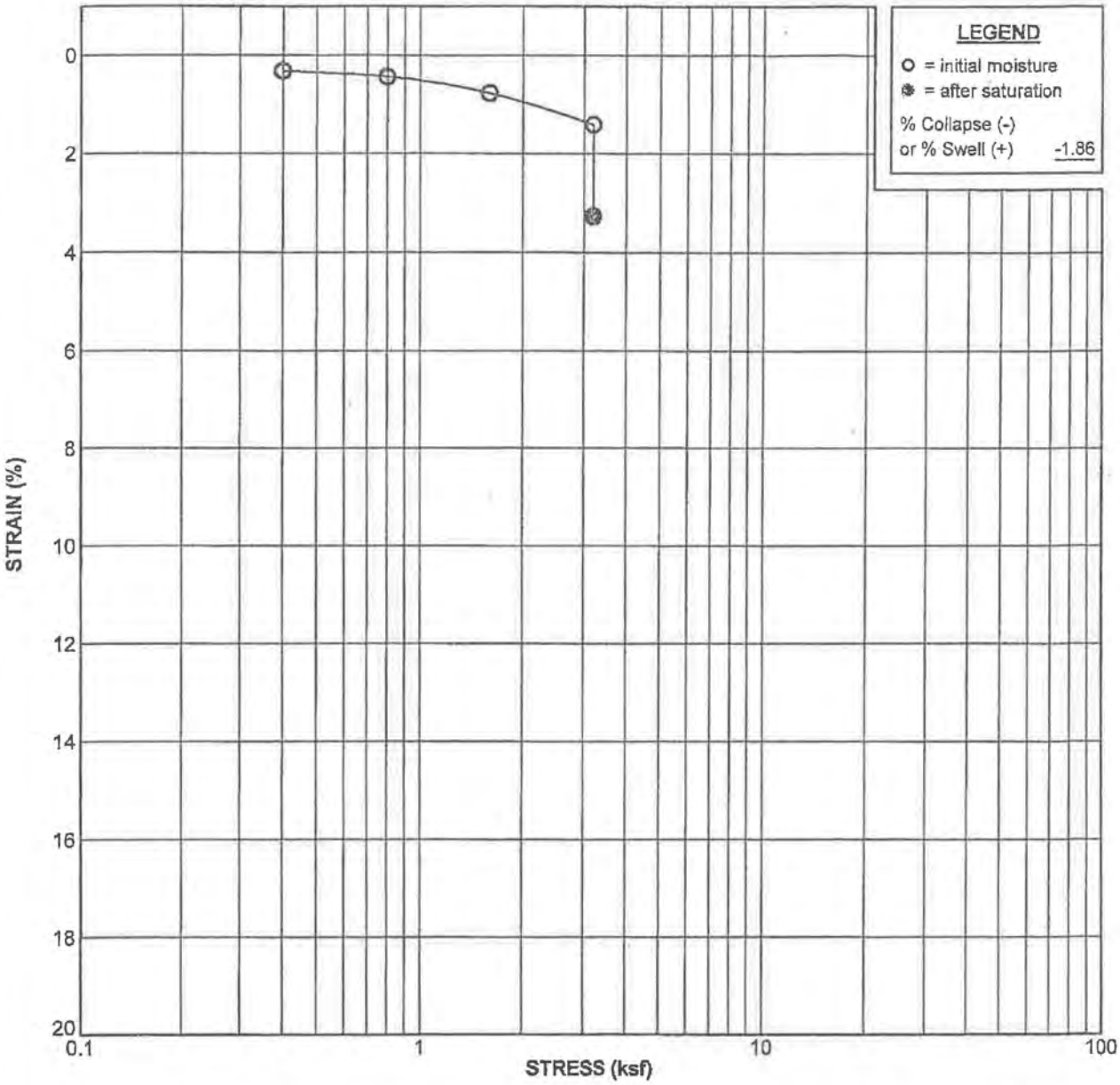
Boring No. H-4	Sample No. D-3	Depth: 7.5 ft
Sample Description:	Light Yellowish Brown Fine-Grained Sandy SILT	
Liquid Limit:	Plasticity Index:	Percent Passing No. 200 Sieve:

Test Stage	Moisture Content (%)	Dry Density (pcf)	Degree of Saturation (%)	Void Ratio
Initial	5.5	111.5	28.1	0.539
Final	20.7	123.2	144.9	0.393

CONSOLIDATION TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.



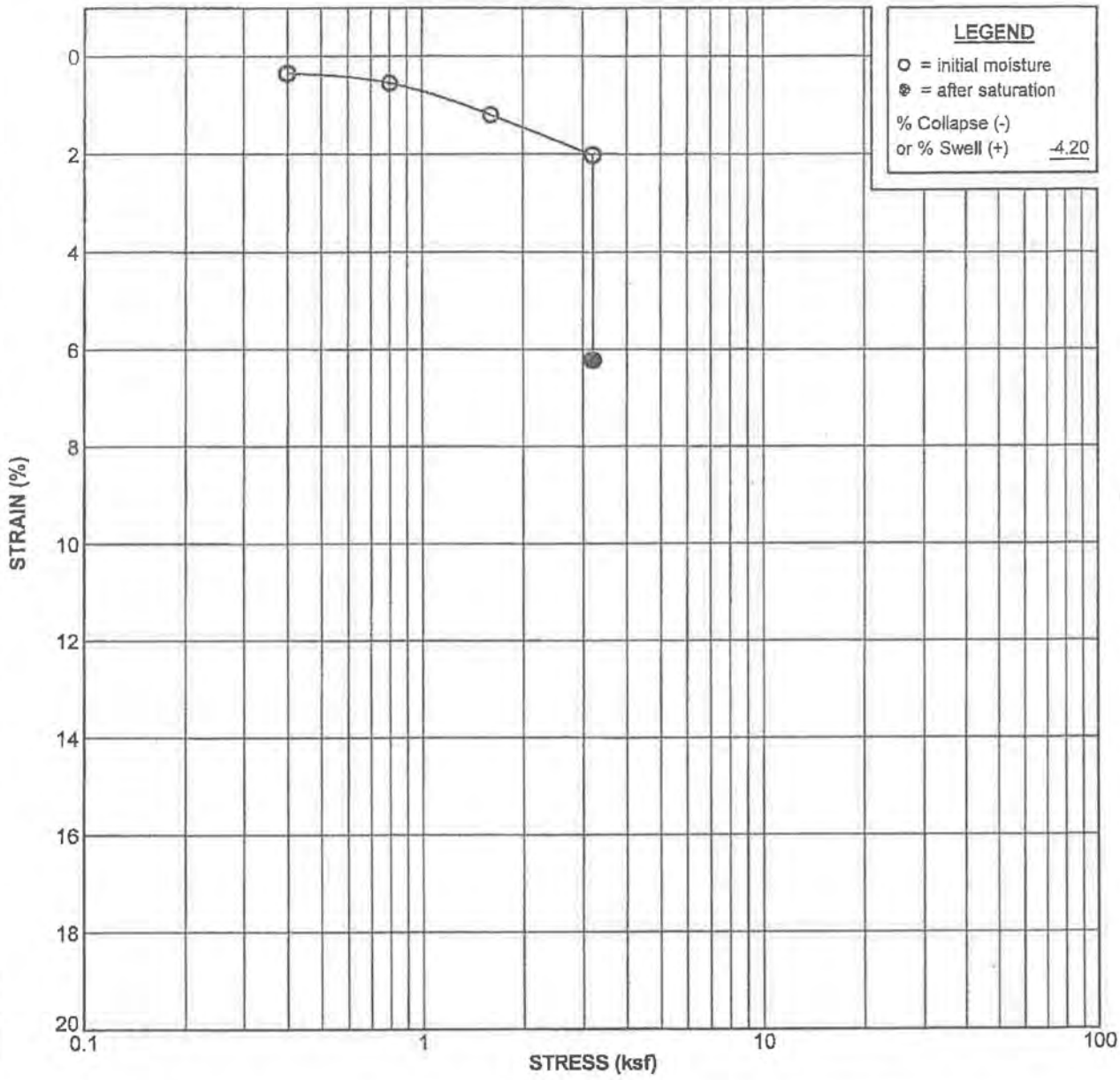
Boring No. H-4	Sample No. D-3A	Depth: 7.5 ft
Sample Description:	Light Yellowish Brown Fine-Grained Sandy SILT	
Liquid Limit:	Plasticity Index:	Percent Passing No. 200 Sieve:

Test Stage	Moisture Content (%)	Dry Density (pcf)	Degree of Saturation (%)	Void Ratio
Initial	6.2	102.9	25.5	0.668
Final	22.5	106.3	100.7	0.614

CONSOLIDATION TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.



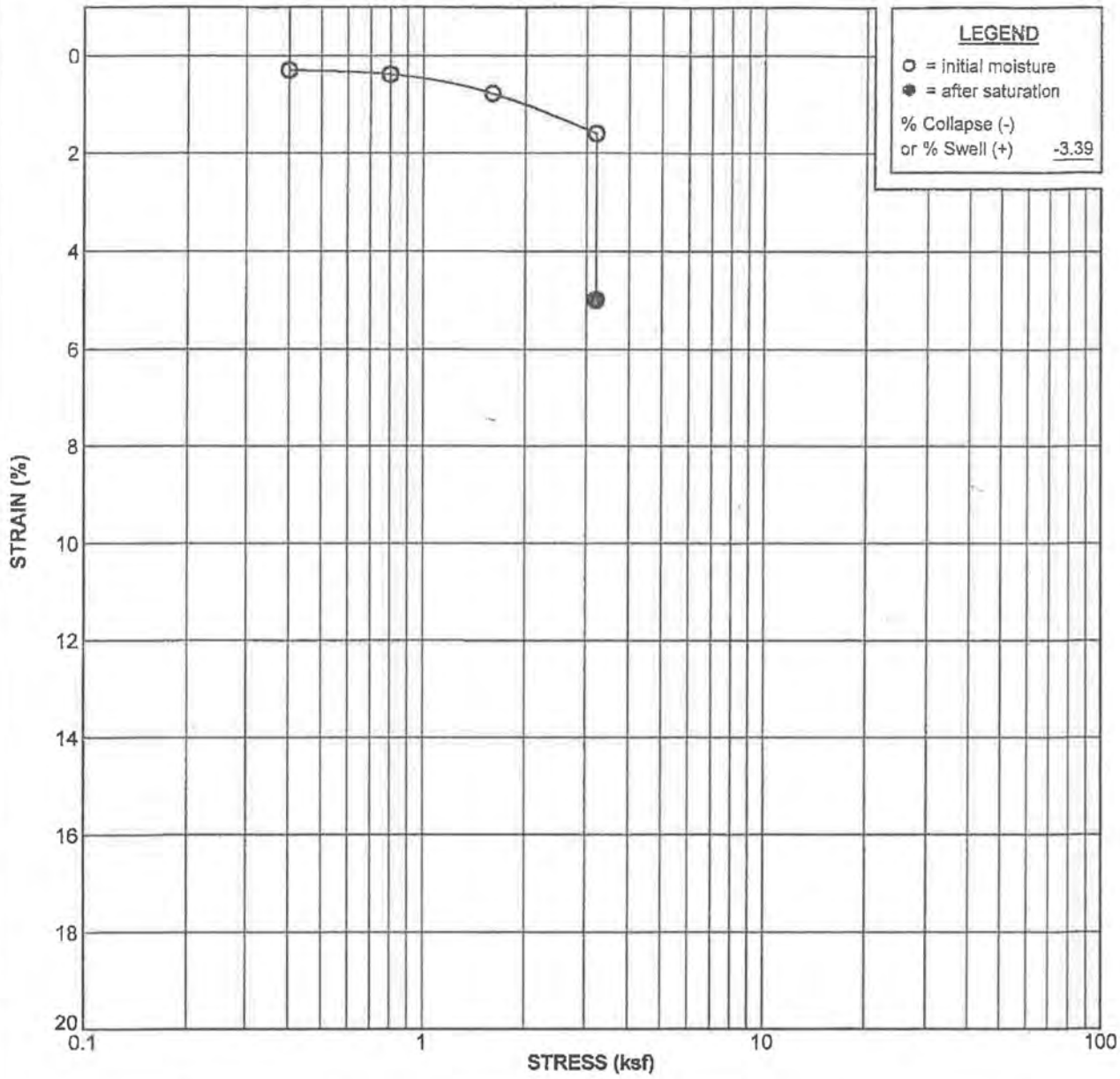
Boring No. H-4	Sample No. D-3B	Depth: 7.5 ft
Sample Description:	Light Yellowish Brown Fine-Grained Sandy SILT	
Liquid Limit:	Plasticity Index:	Percent Passing No. 200 Sieve:

Test Stage	Moisture Content (%)	Dry Density (pcf)	Degree of Saturation (%)	Void Ratio
Initial	5.3	97.4	19.1	0.762
Final	23.0	103.5	96.1	0.658

CONSOLIDATION TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.



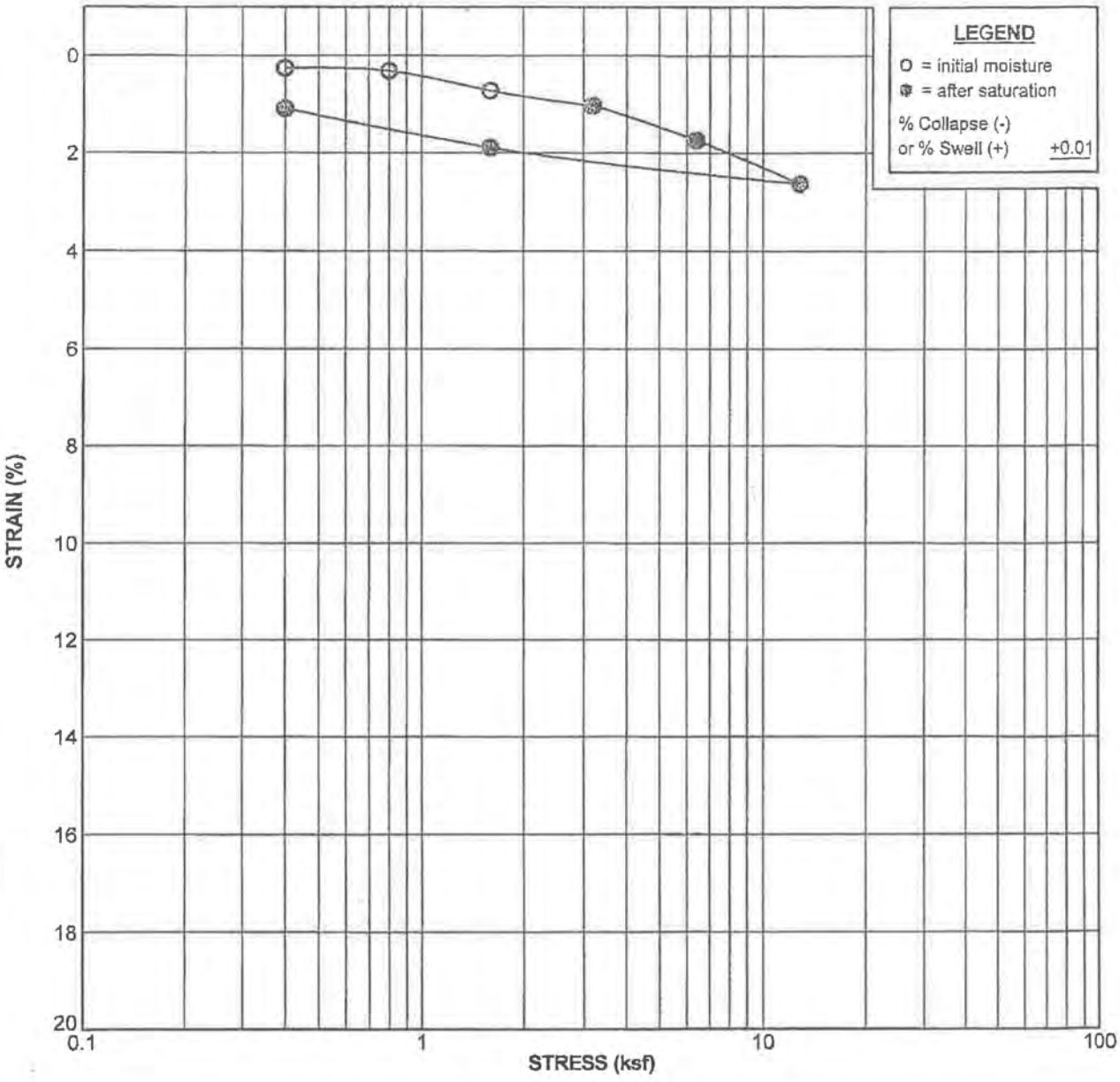
Boring No. H-5	Sample No. D-2	Depth: 5.0 ft
Sample Description:	Yellowish Brownn Fine-Grained Sandy SILT/ Silty SAND	
Liquid Limit:	Plasticity Index:	Percent Passing No. 200 Sieve:

Test Stage	Moisture Content (%)	Dry Density (pcf)	Degree of Saturation (%)	Void Ratio
Initial	6.3	92.7	21.3	0.784
Final	26.7	97.3	101.2	0.699

CONSOLIDATION TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.



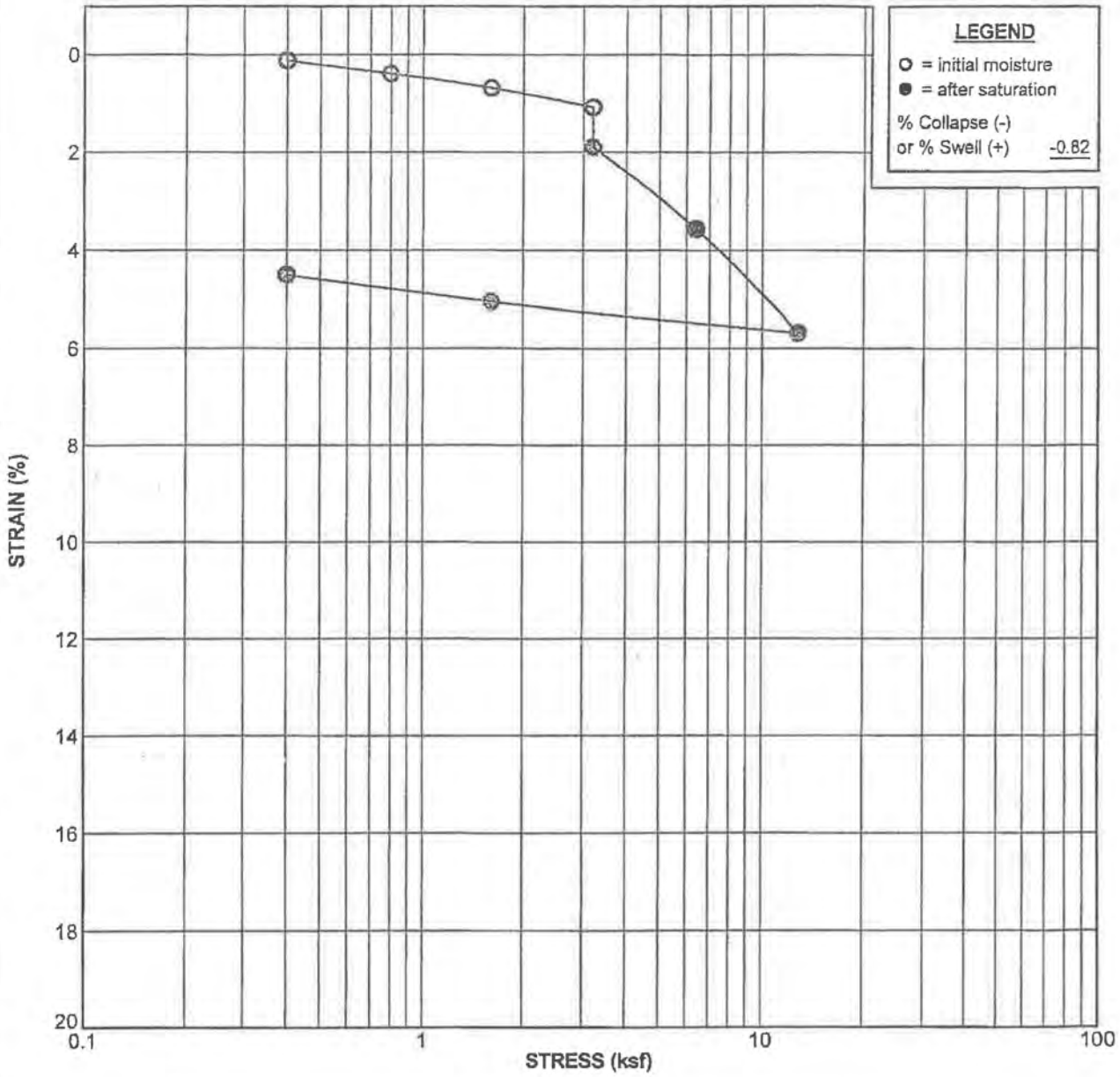
Boring No. H-10	Sample No. D-2	Depth: 5.0 ft
Sample Description:	Yellowish Brown Fine-Grained Sandy SILT	
Liquid Limit:	Plasticity Index:	Percent Passing No. 200 Sieve:

Test Stage	Moisture Content (%)	Dry Density (pcf)	Degree of Saturation (%)	Void Ratio
Initial	12.5	116.2	78.3	0.423
Final	16.4	117.5	106.7	0.407

CONSOLIDATION TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.



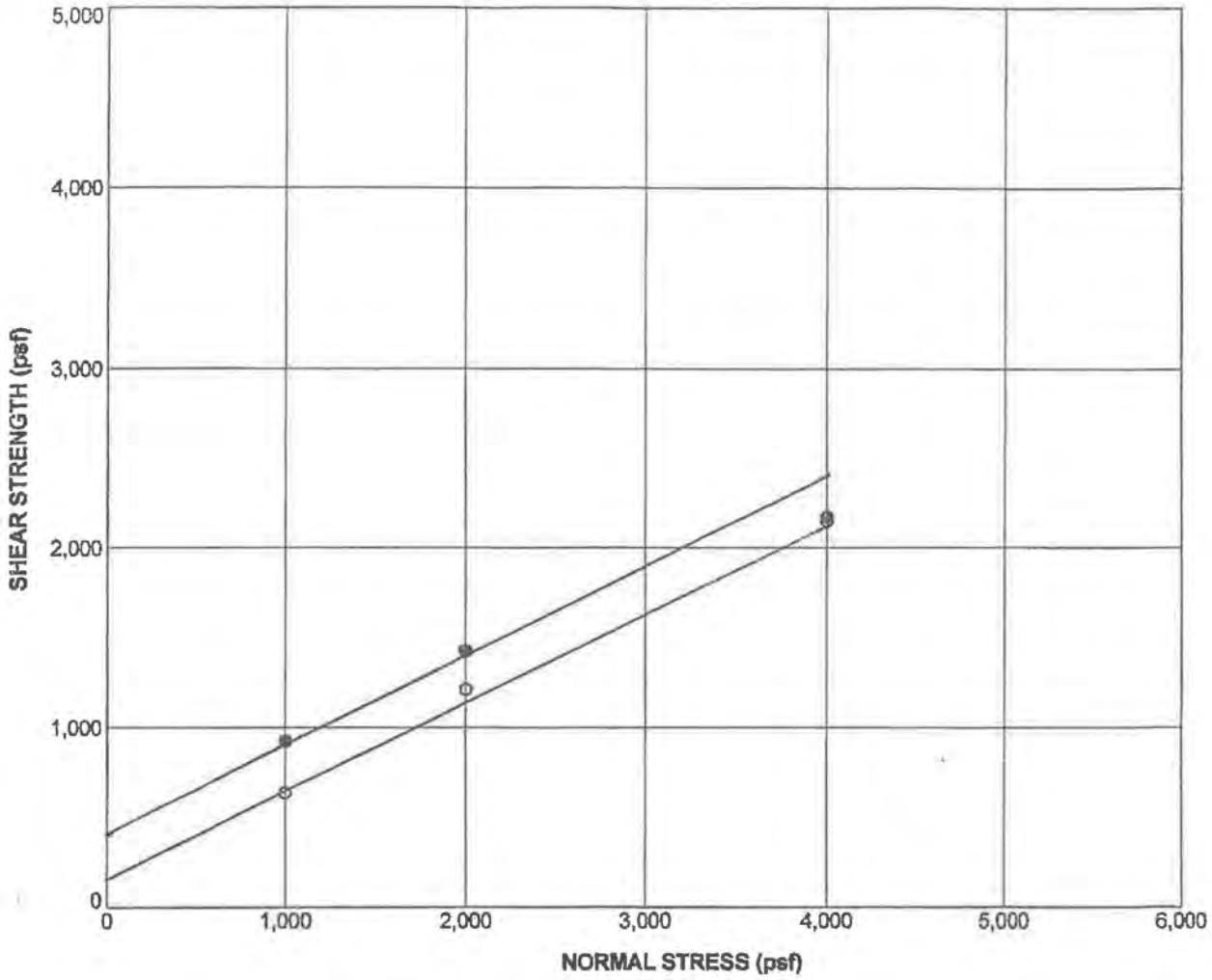
Boring No. H-11	Sample No. D-2	Depth: 5.0 ft
Sample Description:	Yellowish Brown Fine-Grained Sandy SILT	
Liquid Limit:	Plasticity Index:	Percent Passing No. 200 Sieve:

Test Stage	Moisture Content (%)	Dry Density (pcf)	Degree of Saturation (%)	Void Ratio
Initial	10.9	99.4	43.5	0.664
Final	22.7	103.9	101.7	0.592

CONSOLIDATION TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.



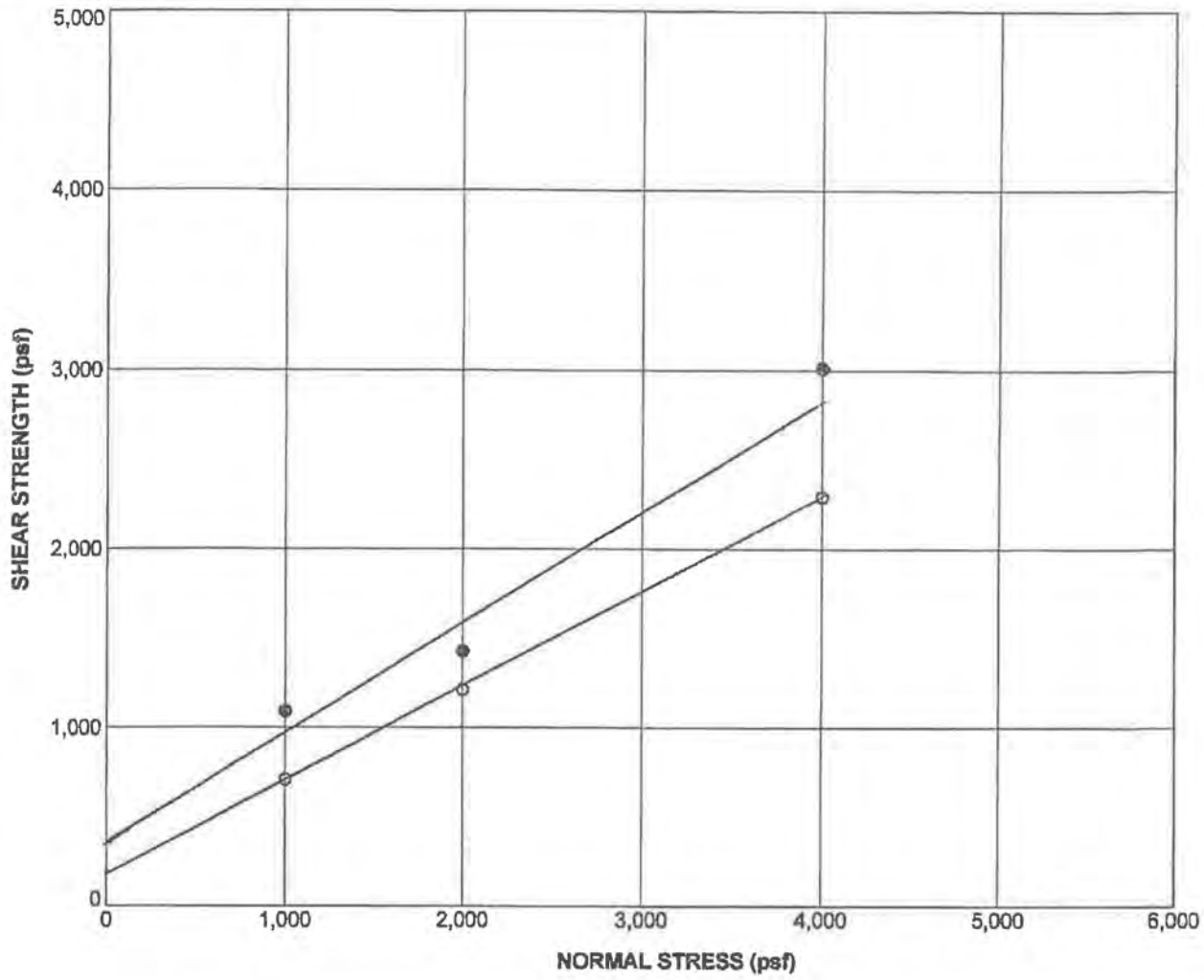
Boring No. H-2	Sample No. D-2	Depth: 5.0 ft
Sample Description:	Yellowish Brown Fine-Grained Sandy SILT	
Liquid Limit:	Plasticity Index:	Percent Passing No. 200 Sieve:
Moisture Content (%): 21.6	Dry Density (pcf): 109.1	Degree of Saturation (%): 99
Sample Type: Undisturbed	Rate of Shear (in./min.): 0.005	

SHEAR STRENGTH PARAMETERS		
Parameter	Peak ●	Ultimate ○
Cohesion (psf)	400	175
Friction Angle (degrees)	27	26.0

DIRECT SHEAR TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.



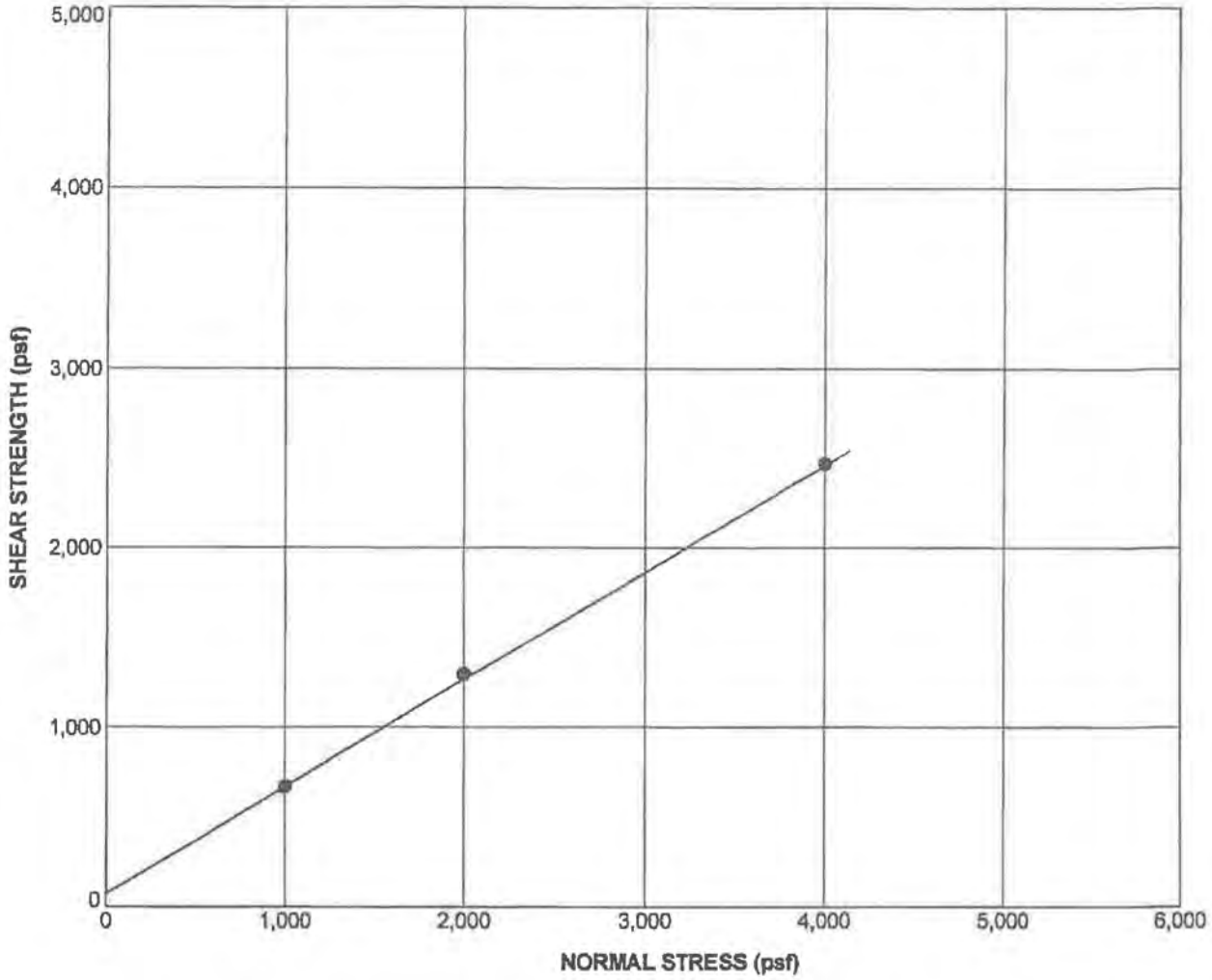
Boring No. H-7	Sample No. D-1	Depth: 2.5 ft
Sample Description:	Olive Brown Silty SAND	
Liquid Limit:	Plasticity Index:	Percent Passing No. 200 Sieve:
Moisture Content (%): 18.4	Dry Density (pcf): 117.0	Degree of Saturation (%): 100
Sample Type: Undisturbed	Rate of Shear (in./min.): 0.05	

SHEAR STRENGTH PARAMETERS		
Parameter	Peak ●	Ultimate ○
Cohesion (psf)	350	175
Friction Angle (degrees)	31	27.0

DIRECT SHEAR TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.



Boring No. H-8	Sample No. D-2	Depth: 5.0 ft
Sample Description:	Yellowish Brown Sandy SILT	
Liquid Limit:	Plasticity Index:	Percent Passing No. 200 Sieve:
Moisture Content (%): 23.2	Dry Density (pcf): 103.4	Degree of Saturation (%): 100
Sample Type: Undisturbed	Rate of Shear (in./min.): 0.005	

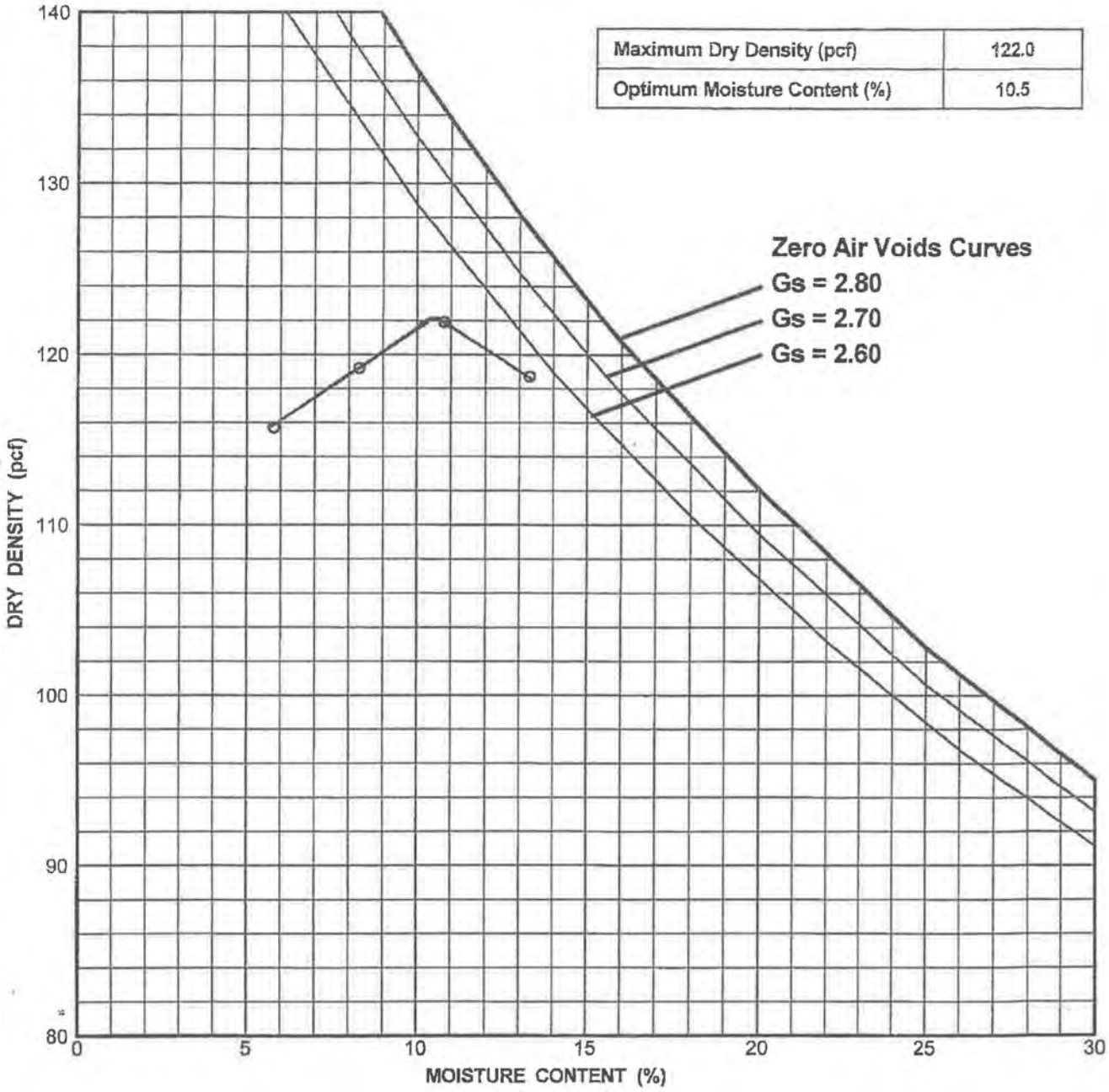
SHEAR STRENGTH PARAMETERS		
Parameter	Peak ●	Ultimate ○
Cohesion (psf)	75	75
Friction Angle (degrees)	29	29.0

DIRECT SHEAR TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.

Maximum Dry Density (pcf)	122.0
Optimum Moisture Content (%)	10.5



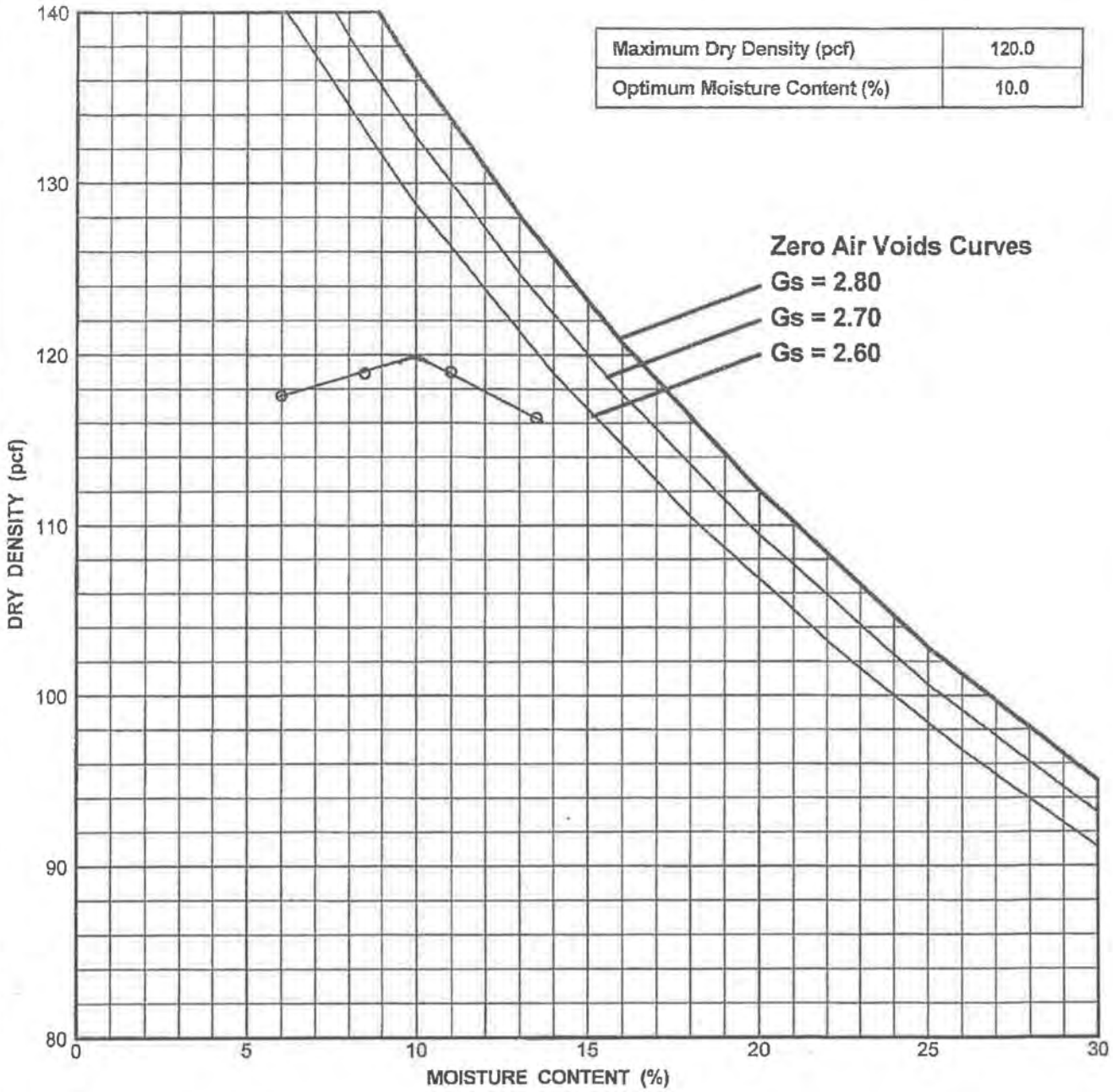
Boring No. H-12	Sample No. B-1	Depth: 2.5 ft
Sample Description: Yellowish Brown Silty SAND		
Liquid Limit: NP	Plasticity Index: NP	Percent Passing No. 200 Sieve: 48
Comments: 1557A		

COMPACTION TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.

Maximum Dry Density (pcf)	120.0
Optimum Moisture Content (%)	10.0

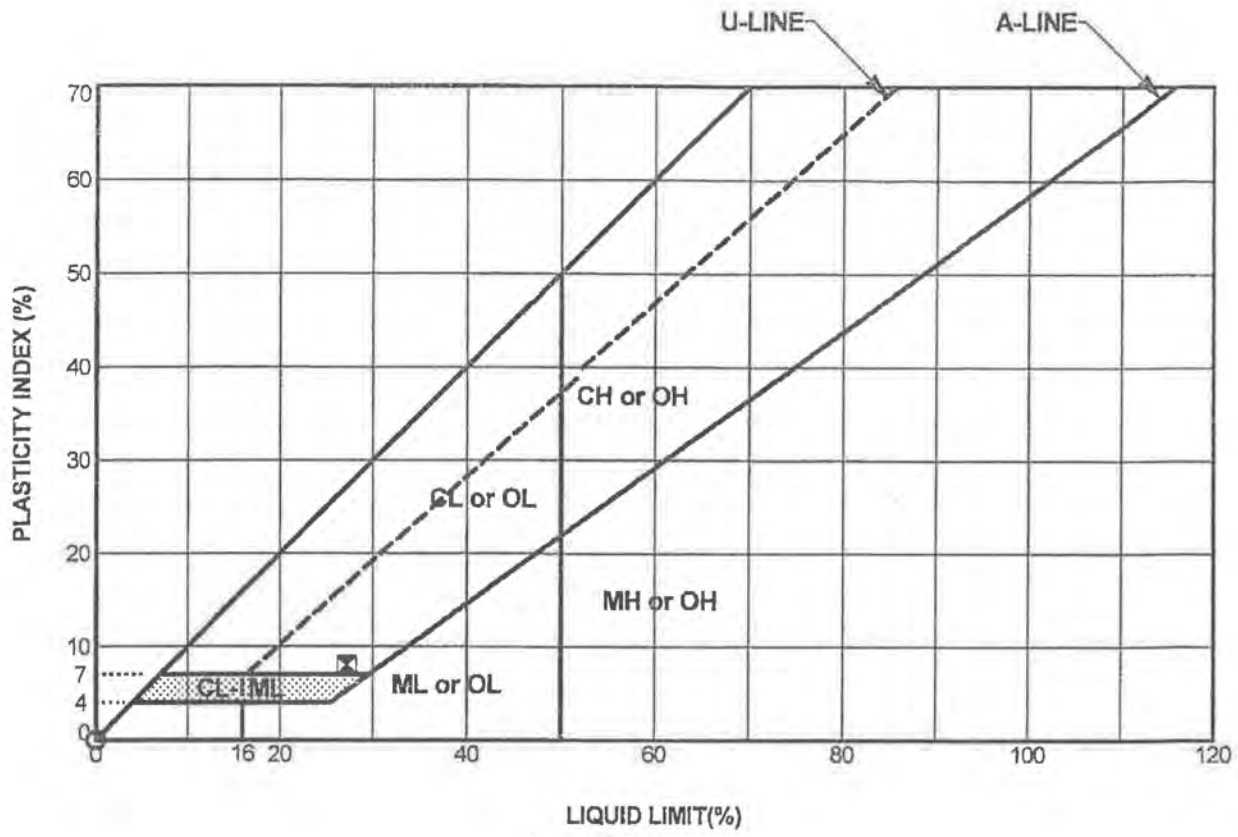


Boring No. H-1	**Sample No. B-1**	**Depth: 2.5 ft**
Sample Description: Yellowish Brown Silty SAND		
Liquid Limit:	**Plasticity Index:**	**Percent Passing No. 200 Sieve:** 27
Comments: 1557A		

COMPACTION TEST RESULTS

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.



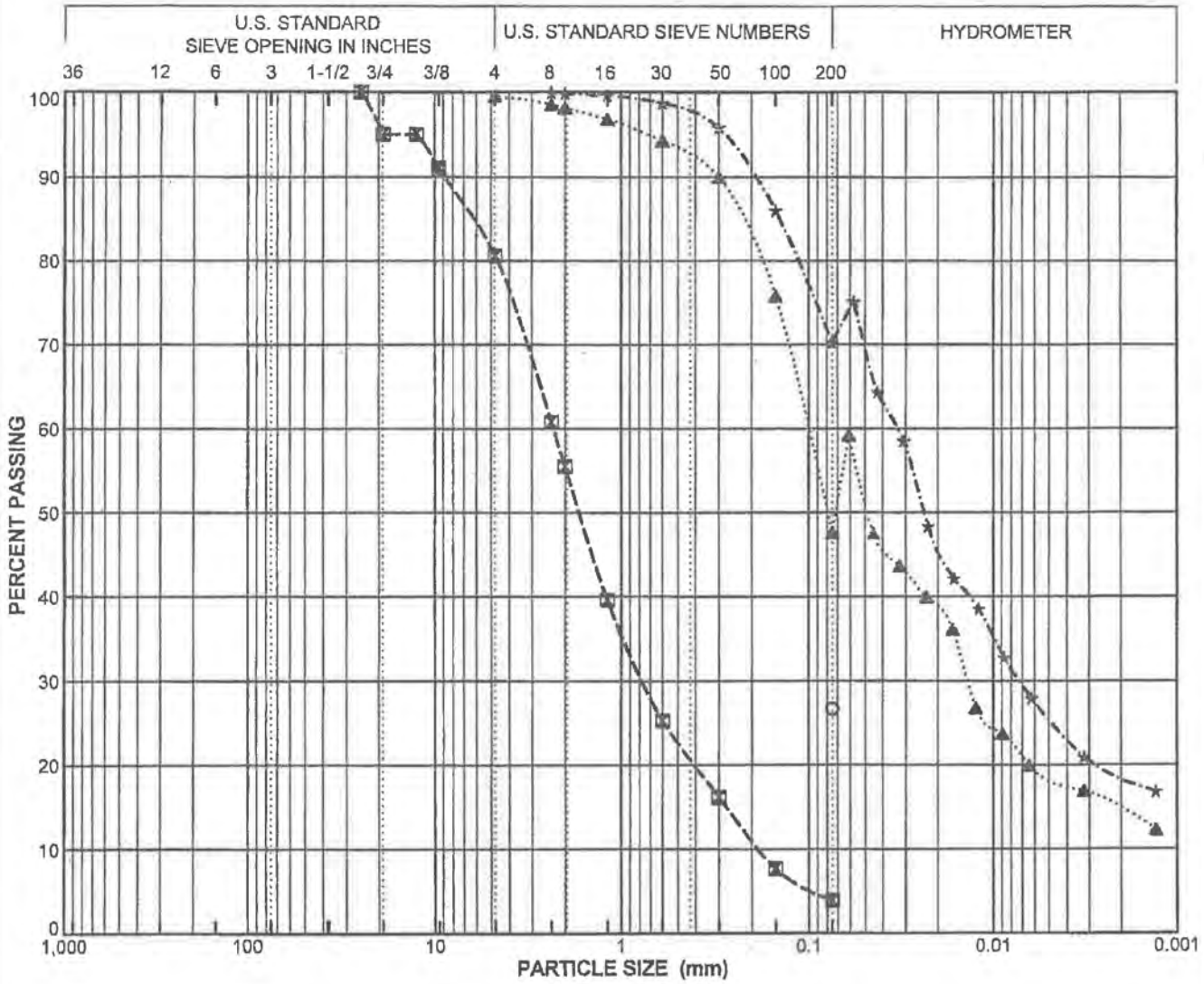
Symbol	Boring Number	Depth (feet)	Sample Number	Passing No. 200 Sieve (%)	LL	PI	USCS	Description
O	H-12	2.5	B-1	48	NP	NP	SM	Yellowish Brown Silty SAND
⊠	H-3	5.1	B-1	70	27	8	ML	Yellowish Brown Sandy Clayey SILT

PLASTICITY CHART

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.

BOULDERS	COBBLES	GRAVEL		SAND			SILT OR CLAY
		coarse	fine	coarse	medium	fine	



Symbol	Boring Number	Sample Number	Depth (feet)	Field Moisture (%)	LL	PI	Activity PI/-2μ	C_u	C_c	Passing No. 200 Sieve (%)	Passing 2μ (%)	USCS
O	H-1	B-1	2.5							27		SM
⊠	H-1	D-3	7.5	1						4		SP
▲	H-12	B-1	2.5		NP	NP				48	14	SM
★	H-3	B-1	5.1		27	8				70	19	ML

PARTICLE SIZE DISTRIBUTION

Shubin Nadal / Van Nuys
Van Nuys, California
PROJECT NO. 12069-01

NMG Geotechnical, Inc.

Sample	Compacted Moisture (%)	Compacted Dry Density (pcf)	Final Moisture (%)	Volumetric Swell (%)	Expansion Index[1] Value/Method		Expansive Classification[2]	Soluble Sulfate (%)	Sulfate Exposure[3]
H-3, B-1, 5'-10'	9.8	113.1	21.8	2.0	22	B	Low		
H-12, B-1, 0'-5'	9.1	115.2	16.7	0.7	8	B	Very Low		

Test Method:
ASTM D4829

HACH SF-1 (Turbidimetric)

Notes:
1. Expansion Index (EI) method of determination:
   [A] E.I. determined by adjusting water content to achieve a 50 ±1% degree of saturation
   [B] E.I. calculated based on measured saturation within the range of 40% and 60%
2. ASTM D4829 *(Classification of Expansive Soil)*
3. ACI-318 Table 4.3.1 *(Requirement for Concrete Exposed to Sulfate-Containing Solutions)*

Expansion Index and Soluble Sulfate Test Results
(FRM001 Rev.5)

Project No. 12069-01

Project Name: Shubin Nadal / Van Nuys

NMG

R-VALUE TEST DATA CTM 301

Project:	Shubin Nadal/Van Nuys	Project No:	12069-01	Date:	7/18/2012
Boring Trench No:	H-1	Sample No:	B-1	Sample Depth:	0-5'
Field Description		SM			
Lab Description:		Dark Olive Brown Silty SAND (SM)			

Specimen Number	1	2	3	4
Mold Number	1	2	3	
Water Adjustment (g)	+125	+115	+110	
Compactor Pressure (psi)	350	350	350	
Exudation Pressure (psi)	192	365	672	
Gross Weight (g)	3196.5	3223.8	3212.8	
Mold Tare (g)	2116.5	2128.5	2113.7	
Wet Weight (g)	1080	1095.3	1099.1	
Sample Height (in)	2.49	2.51	2.52	
Initial Dial Reading	0.0615	0.0991	0.0424	
Final Dial Reading	0.0619	0.0996	0.0431	
Expansion (in $x10^{-4}$)	4	5	7	
Stability(psi) at 2,000 lbs (160 psi)	22 | 38	22 | 36	18 | 28	|
Turns Displacement	3.81	3.6	4	
R-Value Uncorrected	68	71	75	
R-Value Corrected	68	71	75	
Moisture Content (%)	12.6	11.7	11.1	
Dry Density (pcf)	116.7	118.3	118.9	
Assumed Traffic Index	4.0	4.0	4.0	
G.E. by Stability	0.33	0.30	0.26	
G.E. by Expansion	0.13	0.17	0.23	
Gf	1.25			

Moisture Content				
Dish No.	D	UX	HHH	
Weight of Moist Soil and Dish (g)	288.3	278	263.8	
Weight of Dry Soil and Dish (g)	261.7	254.1	242.4	
Water Loss (g)	26.6	23.9	21.4	
Weight of Dish (g)	50.3	50.2	50.3	
Dry Soil (g)	211.4	203.9	192.1	
Moisture Content (%)	12.6	11.7	11.1	

R-Value by Exudation = 70

R-Value by Expansion = 77

R-Value at Equilibrium = 70 by Exudation

The data above is based upon processing and testing samples as received from the field. Test procedures in accordance with latest revisions to Department of Transportation, State of California, Materials & Research Test Method No. 301

Remarks:

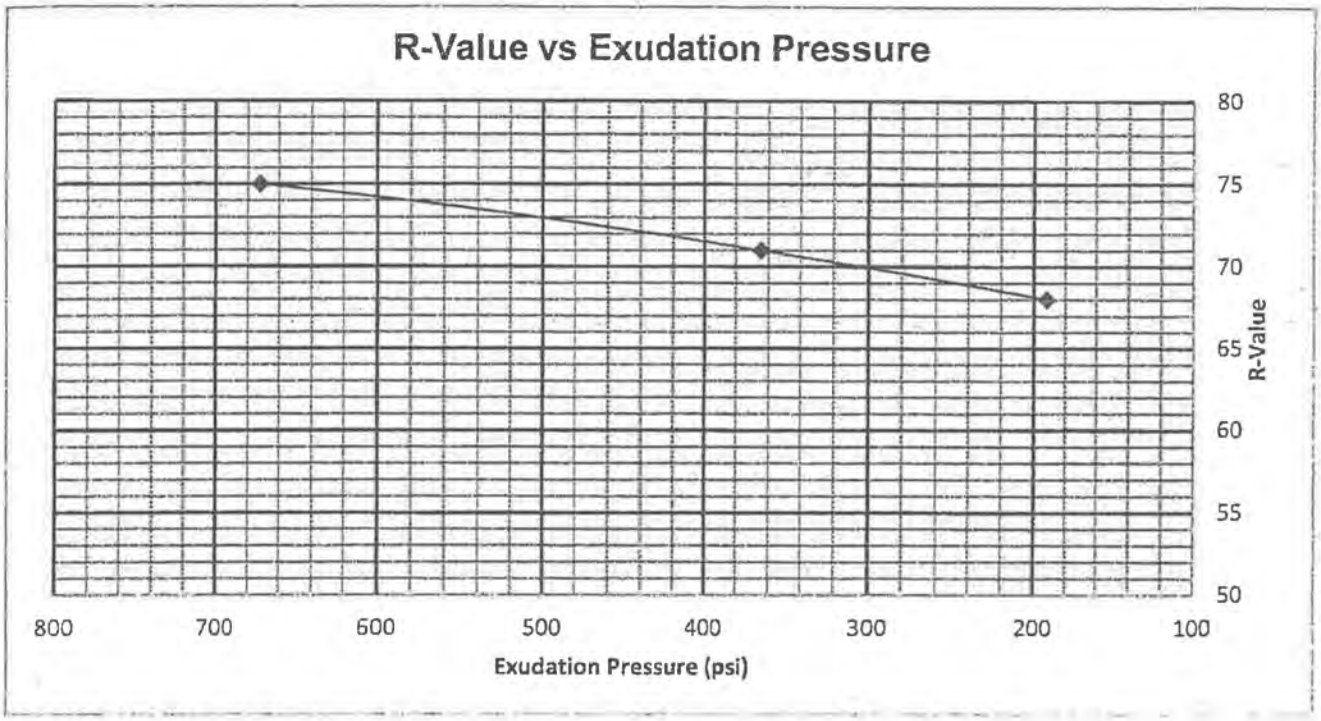
Set up by: Run by: GEH

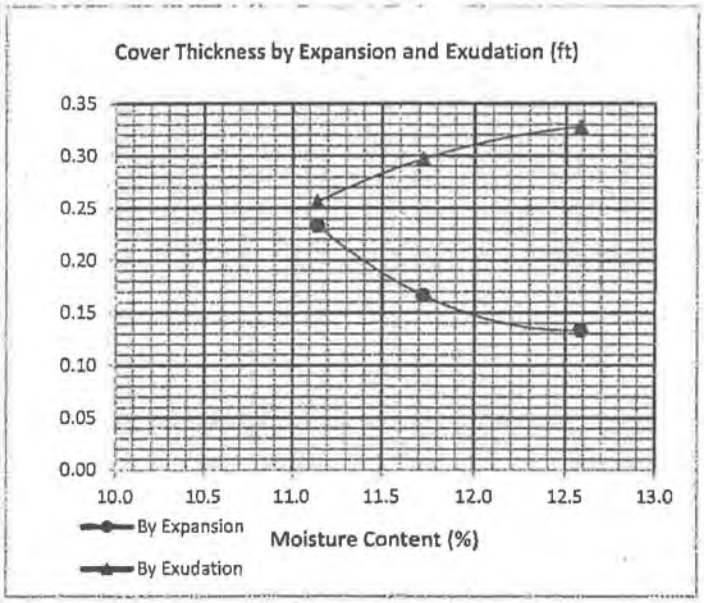
Calculated by: Checked by: Date Completed: 7/18/2012

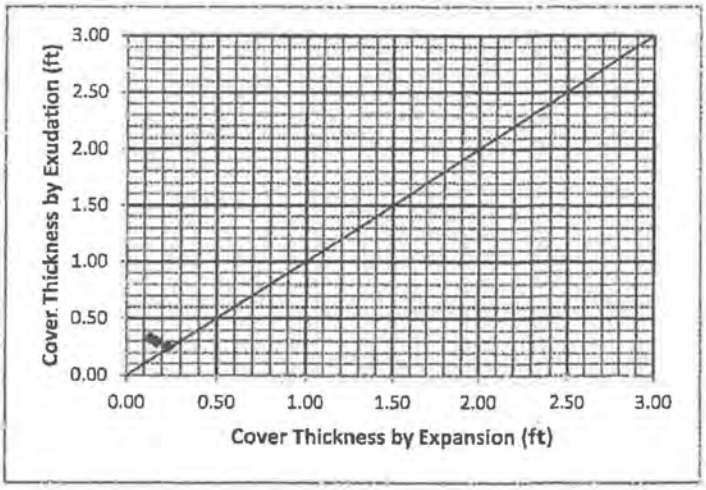
NMG Geotechnical, Inc.

R-VALUE GRAPHICAL PRESENTATION

Project:	Shubin Nadal/Van Nuys	Project No:	12069-01	Date:	7/18/2012
Boring Trench No:	H-1	Sample No:	B-1	Sample Depth:	0-5'
Field Description:	SM				
Lab Description:	Dark Olive Brown Silty SAND (SM)				







Cover Thickness (ft) = 0.24

The data above is based upon processing and testing samples as received from the field. Test procedures in accordance with latest revisions to Department of Transportation, State of California, Materials & Research Test Method No. 301

Remarks:			
Set up by:	Run by: GEH		
Calculated by:	Checked by:	Date Completed:	7/18/2012

NMG Geotechnical, Inc.

R-VALUE TEST DATA CTM 301

Project:	Shubin/ Nadal/ Van Nuys	Project No:	12069-01	Date:	7/20/2012
Boring Trench No:	H-12	Sample No:	B-1	Sample Depth:	0-5'
Field Description:	SM-ML				
Lab Description:	Dark olive brown silty SAND (SM)				

Specimen Number	1	2	3	4
Mold Number	1	2	3	
Water Adjustment (g)	+85	+75	+60	
Compactor Pressure (psi)	300	350	350	
Exudation Pressure (psi)	131	208	547	
Gross Weight (g)	3274.3	3249.1	3220.4	
Mold Tare (g)	2116.3	2128.4	2113.5	
Wet Weight (g)	1158	1120.7	1106.9	
Sample Height (in)	2.46	2.49	2.48	
Initial Dial Reading	0.0618	0.0989	0.0428	
Final Dial Reading	0.062	0.1002	0.0447	
Expansion (in $x10^{-4}$)	2	13	19	
Stability(psi) at 2,000 lbs (160 psi)	41 | 76	28 | 46	21 | 34	|
Turns Displacement	5.27	4.22	3.86	
R-Value Uncorrected	34	59	71	
R-Value Corrected	34	59	71	
Moisture Content (%)	12.5	11.6	10.3	
Dry Density (pcf)	126.8	122.2	122.6	
Assumed Traffic Index	4.0	4.0	4.0	
G.E. by Stability	0.68	0.42	0.30	
G.E. by Expansion	0.07	0.43	0.63	
Gf	1.25			

Moisture Content				
Dish No.	D	UX	WW	
Weight of Moist Soil and Dish (g)	289.1	251.3	243.3	
Weight of Dry Soil and Dish (g)	262.6	230.4	225.2	
Water Loss (g)	26.5	20.9	18.1	
Weight of Dish (g)	50.3	50.2	49.5	
Dry Soil (g)	212.3	180.2	175.7	
Moisture Content (%)	12.5	11.6	10.3	

R-Value by Exudation = 64

R-Value by Expansion = 60

R-Value at Equilibrium = 60 by Expansion

The data above is based upon processing and testing samples as received from the field. Test procedures in accordance with latest revisions to Department of Transportation, State of California, Materials & Research Test Method No. 301

Remarks:

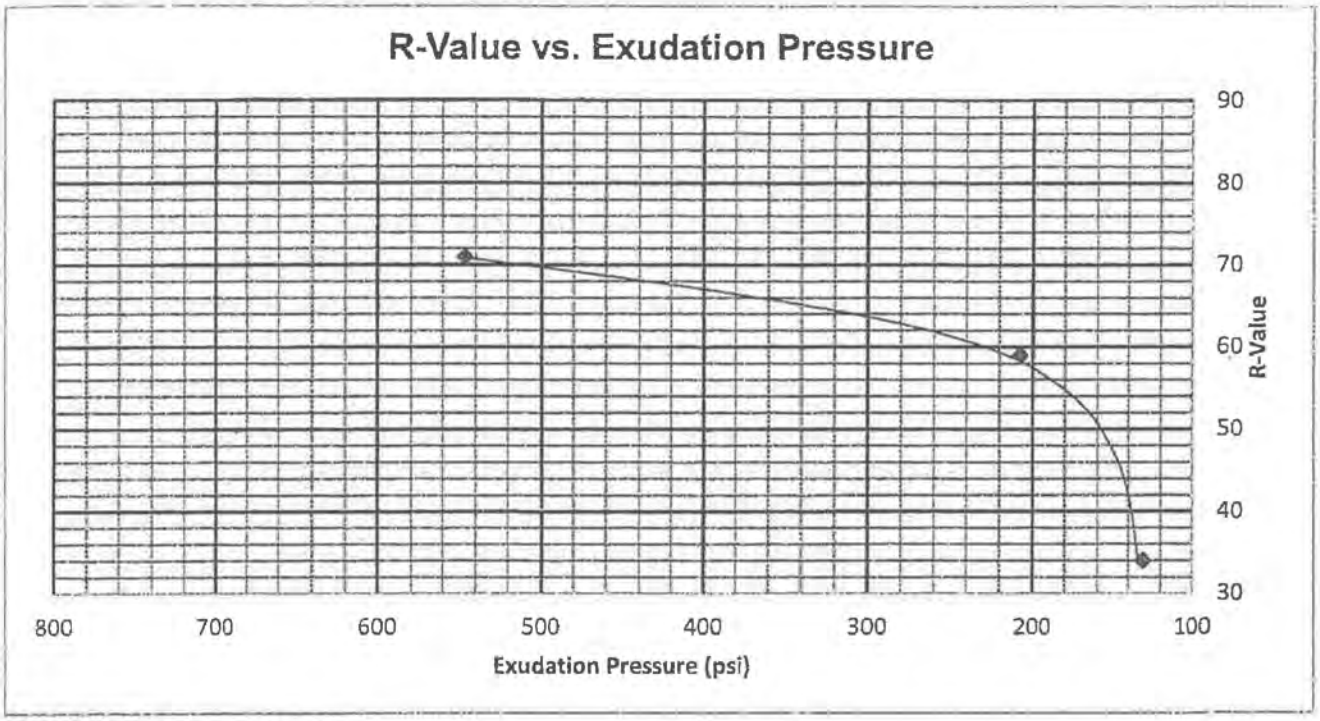
Set up by: Run by: GEH/ MPD

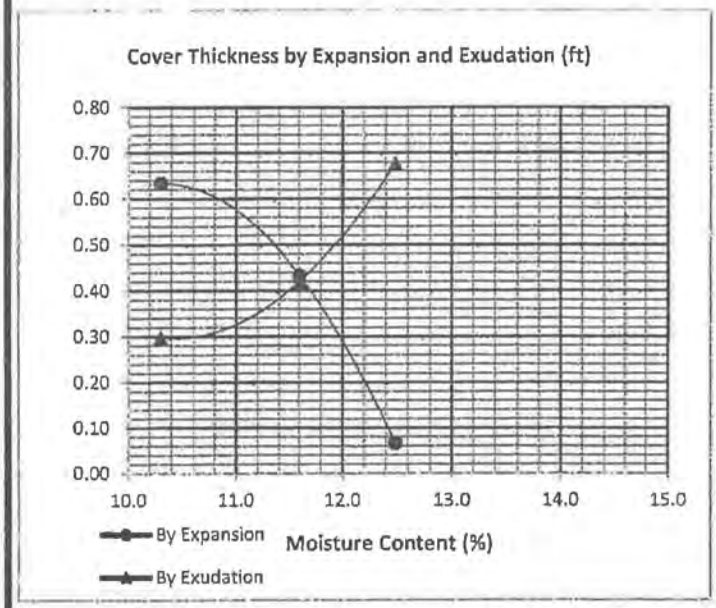
Calculated by: Checked by: Date Completed: 7/20/2012

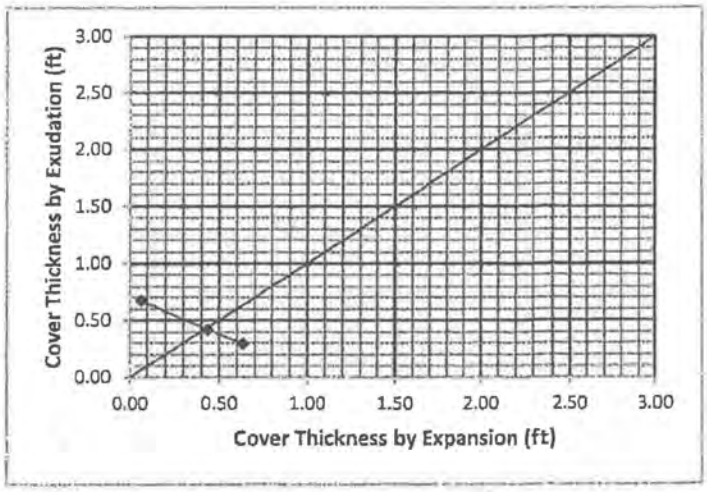
NMG Geotechnical, Inc.

R-VALUE GRAPHICAL PRESENTATION

Project:	Shubin/ Nadal/ Van Nuys	Project No:	12069-01	Date:	7/20/2012
Boring Trench No:	H-12	Sample No:	B-1	Sample Depth:	0-5'
Field Description:	SM-ML				
Lab Description:	Dark olive brown silty SAND (SM)				







Cover Thickness (ft) = 0.41

The data above is based upon processing and testing samples as received from the field. Test procedures in accordance with latest revisions to Department of Transportation, State of California, Materials & Research Test Method No. 301

Remarks:				
Set up by:	Run by: GEH/ MPD			
Calculated by:	Checked by:	Date Completed:	7/20/2012	

NMG Geotechnical, Inc.

HDR | SCHIFF

www.hdrinc.com
Corrosion Control and Condition Assessment (C3A) Department

July 25, 2012 via email: TMiyake@nmggeotechnical.com

NMG GEOTECHNICAL, INC.
17991 Fitch
Irvine, CA 92714

Attention: Mr. Ted Miyake, P.E., G.E.

Re: Soil Corrosivity Study
Shubin Nadal/Van Nuys
Van Nuys, California
HDR|Schiff #12-0612SCS, HDR #188782
NMG #12069-01

INTRODUCTION

Laboratory tests have been completed on two soil samples provided for the Shubin Nadal/Van Nuys project. The purpose of these tests was to determine if the soils might have deleterious effects on underground utility piping and concrete structures. HDR Engineering, Inc. (HDR|Schiff) assumes that the samples provided are representative of the most corrosive soils at the site.

The proposed construction consists of an office-industrial building. The site is located at 7600 Tyrone Avenue in Van Nuys, California. The water table is reportedly not encountered during boring explorations 32 feet deep.

The scope of this study is limited to a determination of soil corrosivity and general corrosion control recommendations for materials likely to be used for construction. Our recommendations do not constitute, and are not meant as a substitute for, design documents for the purpose of construction. If the architects and/or engineers desire more specific information, designs, specifications, or review of design, HDR|Schiff will be happy to work with them as a separate phase of this project.

LABORATORY SOIL CORROSIVITY TESTS

The electrical resistivity of each sample was measured in a soil box per ASTM G187 in its as-received condition and again after saturation with distilled water. Resistivities are at about their lowest value when the soil is saturated. The pH of the saturated samples was measured per CTM 643. A 5:1 water:soil extract from each sample was chemically analyzed for the major soluble salts commonly found in soil per ASTM D4327 and D6919. Test results are shown in Table 1.

SOIL CORROSIVITY

A major factor in determining soil corrosivity is electrical resistivity. The electrical resistivity of a soil is a measure of its resistance to the flow of electrical current. Corrosion of buried metal is an electrochemical process in which the amount of metal loss due to corrosion is directly proportional to the flow of electrical current (DC) from the metal into the soil. Corrosion currents, following Ohm's Law, are inversely proportional to soil resistivity. Lower electrical resistivities result from higher moisture and soluble salt contents and indicate corrosive soil.

A correlation between electrical resistivity and corrosivity toward ferrous metals is:[1]

Soil Resistivity in ohm-centimeters	Corrosivity Category
Greater than 10,000	Mildly Corrosive
2,000 to 10,000	Moderately Corrosive
1,000 to 2,000	Corrosive
0 to 1,000	Severely Corrosive

Other soil characteristics that may influence corrosivity towards metals are pH, soluble salt content, soil types, aeration, anaerobic conditions, and site drainage.

Electrical resistivities were in the mildly and moderately corrosive categories with as-received moisture. When saturated, the resistivities were in the moderately corrosive and corrosive categories. The resistivities dropped considerably with added moisture because the samples were dry as-received.

Soil pH values varied from 7.6 to 7.8. This range is mildly alkaline.[2] These values do not particularly increase soil corrosivity.

The soluble salt content of the samples was low.

The nitrate concentration was high enough to be aggressive to copper.

Tests were not made for sulfide and negative oxidation-reduction (redox) potential because these samples did not exhibit characteristics typically associated with anaerobic conditions.

This soil is classified as corrosive to ferrous metals and aggressive to copper.

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[1] *Romanoff, Melvin. Underground Corrosion, NBS Circular 579. Reprinted by NACE. Houston, TX, 1989, pp. 166–167.*

[2] *Romanoff, Melvin. Underground Corrosion, NBS Circular 579. Reprinted by NACE. Houston, TX, 1989, p. 8.*

CORROSION CONTROL RECOMMENDATIONS

The life of buried materials depends on thickness, strength, loads, construction details, soil moisture, etc., in addition to soil corrosivity, and is, therefore, difficult to predict. Of more practical value are corrosion control methods that will increase the life of materials that would be subject to significant corrosion.

The following recommendations are based on the soil conditions discussed in the Soil Corrosivity section above. Unless otherwise indicated, these recommendations apply to the entire site or alignment.

Steel Pipe

Implement *all* the following measures:

1. Underground steel pipe with rubber gasketed, mechanical, grooved end, or other nonconductive type joints should be bonded for electrical continuity. Electrical continuity is necessary for corrosion monitoring and cathodic protection.
2. Install corrosion monitoring test stations to facilitate corrosion monitoring and the application of cathodic protection:
    a. At each end of the pipeline.
    b. At each end of all casings.
    c. Other locations as necessary so the interval between test stations does not exceed 1,200 feet.
3. To prevent dissimilar metal corrosion cells and to facilitate the application of cathodic protection, electrically isolate each buried steel pipeline per NACE Standard SP0286 from:
    a. Dissimilar metals.
    b. Dissimilarly coated piping (cement-mortar vs. dielectric).
    c. Above ground steel pipe.
    d. All existing piping.
4. Choose one of the following corrosion control options:

    OPTION 1

    a. Apply a suitable dielectric coating intended for underground use such as:
        i. Polyurethane per AWWA C222 *or*
        ii. Extruded polyethylene per AWWA C215 *or*
        iii. A tape coating system per AWWA C214 *or*
        iv. Hot applied coal tar enamel per AWWA C203 *or*
        v. Fusion bonded epoxy per AWWA C213.
    b. Apply cathodic protection to steel piping as per NACE Standard SP0169.

OPTION 2

a. As an alternative to dielectric coating and cathodic protection, apply a ¾-inch cement mortar coating per AWWA C205 or encase in concrete 3 inches thick, using any type of cement. Joint bonds, test stations, and insulated joints are still required for these alternatives.

NOTE: Some steel piping systems, such as for oil, gas, and high-pressure piping systems, have special corrosion and cathodic protection requirements that must be evaluated for each specific application.

Iron Pipe

Implement *all* the following measures:

1. Electrically insulate underground iron pipe from dissimilar metals and from above ground iron pipe with insulating joints per NACE Standard SP0286.
2. Bond all nonconductive type joints for electrical continuity. Electrical continuity is necessary for corrosion monitoring and cathodic protection.
3. Install corrosion monitoring test stations to facilitate corrosion monitoring and the application of cathodic protection:
   a. At each end of the pipeline.
   b. At each end of any casings.
   c. Other locations as necessary so the interval between test stations does not exceed 1,200 feet.
4. Choose one of the following corrosion control options:

OPTION 1

a. Apply a suitable coating intended for underground use such as:
   i. Polyethylene encasement per AWWA C105; *or*
   ii. Epoxy coating; *or*
   iii. Polyurethane; *or*
   iv. Wax tape.

   NOTE: The thin factory-applied asphaltic coating applied to ductile iron pipe for transportation and aesthetic purposes does not constitute a corrosion control coating.

b. Apply cathodic protection to cast and ductile iron piping as per NACE Standard SP0169.

OPTION 2

a. As an alternative to coating systems described in Option 1 and cathodic protection, concrete encase all buried portions of metallic piping so that there is a minimum of 3 inches of concrete cover provided over and around surfaces of pipe, fittings, and valves using any type of cement.

Copper Tubing

Protect buried copper tubing by *one* of the following measures:

1. Prevention of soil contact. Soil contact may be prevented by placing the tubing above ground or encasing the tubing using PVC pipe with solvent-welded joints.
2. Installation of a factory-coated copper pipe with a minimum 25-mil thickness such as Kamco's Aqua Shield™, Mueller's Streamline Protec™, or equal. The coating must be continuous with no cuts or defects.
3. Installation of 12-mil polyethylene pipe wrapping tape with butyl rubber mastic over a suitable primer. Protect wrapped copper tubing by applying cathodic protection per NACE Standard SP0169.

Plastic and Vitrified Clay Pipe

1. No special precautions are required for plastic and vitrified clay piping placed underground from a corrosion viewpoint.
2. Protect all metallic fittings and valves with wax tape per AWWA C217 or epoxy.

All Pipe

1. On all pipes, appurtenances, and fittings not protected by cathodic protection, coat bare metal such as valves, bolts, flange joints, joint harnesses, and flexible couplings with wax tape per AWWA C217 after assembly.
2. Where metallic pipelines penetrate concrete structures such as building floors, vault walls, and thrust blocks use plastic sleeves, rubber seals, or other dielectric material to prevent pipe contact with the concrete and reinforcing steel.

Concrete

1. From a corrosion standpoint, any type of cement may be used for concrete structures and pipe because the sulfate concentration is negligible, 0 to 0.1 percent.[3,4,5]
2. Standard concrete cover over reinforcing steel may be used for concrete structures and pipe in contact with these soils due to the low chloride concentration[6] found onsite.

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[3] *2009 International Building Code (IBC) which refers to American Concrete Institute (ACI-318) Table 4.3.1*

[4] *2009 International Residential Code (IRC) which refers to American Concrete Institute (ACI-318) Table 4.3.1*

[5] *2010 California Building Code (CBC) which refers to American Concrete Institute (ACI-318) Table 4.3.1*

[6] *Design Manual 303: Concrete Cylinder Pipe. Ameron, p.65*

Table 1 - Laboratory Tests on Soil Samples

NMG Geotechnical, Inc.
Shubin Nadal / Van Nuys
Your #12069-01, HDR|Schiff #12-0612SCS
12-Jul-12

Sample ID			H-3 B-1 @ 5-10' SM/ML	H-12 B-1 @ 0-5' SM/ML
Resistivity		**Units**		
as-received		ohm-cm	4,400	33,200
saturated		ohm-cm	1,760	9,600
pH			7.6	7.8
Electrical Conductivity		mS/cm	0.19	0.05
Chemical Analyses				
Cations				
calcium	Ca^{2+}	mg/kg	78	36
magnesium	Mg^{2+}	mg/kg	11	4.8
sodium	Na^{1+}	mg/kg	119	7.2
potassium	K^{1+}	mg/kg	6.5	19
Anions				
carbonate	CO_3^{2-}	mg/kg	ND	ND
bicarbonate	HCO_3^{1-}	mg/kg	241	107
fluoride	F^{1-}	mg/kg	3.0	4.1
chloride	Cl^{1-}	mg/kg	3.7	0.6
sulfate	SO_4^{2-}	mg/kg	91	7.7
phosphate	PO_4^{3-}	mg/kg	2.2	8.2
Other Tests				
ammonium	NH_4^{1+}	mg/kg	ND	ND
nitrate	NO_3^{1-}	mg/kg	148	5.5
sulfide	S^{2-}	qual	na	na
Redox		mV	na	na

Electrical conductivity in millisiemens/cm and chemical analysis were made on a 1:5 soil-to-water extract.
mg/kg = milligrams per kilogram (parts per million) of dry soil.
Redox = oxidation-reduction potential in millivolts
ND = not detected
na = not analyzed

CLOSURE

Our services have been performed with the usual thoroughness and competence of the engineering profession. No other warranty or representation, either expressed or implied, is included or intended.

Please call if you have any questions.

Respectfully Submitted,
HDR Engineering, Inc.

Leobardo Solis

Steven R. Fox, P.E.

Enc: Table 1

12-0612SCS_Rpt_IB-rev00_LS

APPENDIX D

Falling Head Percolation Data Sheet – Field Copy

Project: Shubin Nadal / Van Nuys		Job No. 12069-01
Test Hole No. H-3	Tested by: CD	Date: 6-27-12
Depth of Hole as Drilled: 12.5'	Before Test: 9'	After Test: 8.4'

Reading No.	Time	Time Interval (Min)	Total Depth of Hole (Ft)	Initial Water Level (Ft)	Final Water Level (Ft)	▲In Water Level (Ft)	Comments
1	8:00 / 8:30	30	9.0	3.10	4.38	1.28	
2	8:30 / 9:00	30	9.0	3.07	4.23	1.16	
3	9:00 / 9:30	30	9.0	2.82	4.09	1.27	
4	9:30 / 10:00	30	8.7	2.90	4.08	1.18	
5	10:00 / 10:30	30	8.7	2.84	4.03	1.19	
6	10:30 / 11:00	30	8.4	3.58	4.44	0.86	
7	11:00 / 11:30	30	8.4	3.41	4.32	0.91	
8	11:30 / 12:00	30	8.4	3.14	4.19	1.05	
9	12:00 / 12:30	30	8.4	3.72	4.54	0.82	
10	12:30 / 1:00	30	8.4	3.26	4.17	0.91	
11	1:00 / 1:30	30	8.4	3.16	4.12	0.96	
12	1:30 / 2:00	30	8.4	3.36	4.36	1.00	

Falling Head Percolation Data Sheet – Field Copy

Project: Shubin Nadal / Van Nuys		Job No. 12069-01
Test Hole No. H-6	Tested by: CD	Test Hole No. H-3
Depth of Hole as Drilled: 7.5'	Before Test: 4'	After Test: 3.5'

Reading No.	Time	Time Interval (Min)	Total Depth of Hole (Ft)	Initial Water Level (Ft)	Final Water Level (Ft)	▲In Water Level (Ft)	Comments
1	8:20 / 8:50	30	4.0	1.67	1.98	0.31	
2	8:50 / 9:20	30	4.0	1.78	2.02	0.26	
3	9:20 / 9:50	30	4.0	1.91	2.15	0.24	
4	9:50 / 10:20	30	3.9	1.88	2.13	0.25	
5	10:20 / 10:50	30	3.7	2.01	2.20	0.19	
6	10:50 / 11:20	30	3.5	2.04	2.24	0.20	
7	11:20 / 11:50	30	3.5	1.84	2.03	0.19	
8	11:50 / 12:20	30	3.5	1.64	1.86	0.22	
9	12:20 / 12:50	30	3.5	1.76	2.01	0.25	
10	12:50 / 1:20	30	3.5	1.93	2.12	0.19	
11	1:20 / 1:50	30	3.5	1.74	1.95	0.21	
12	1:50 / 2:20	30	3.5	1.86	2.06	0.20	

APPENDIX E

Project Name = USGS 2011, Seismic Design Parameters- 7600 Tyrone Ave, Van Nuys, California
Conterminous 48 States
2005 ASCE 7 Standard
Latitude = 34.2094
Longitude = -118.4423
Spectral Response Accelerations Ss and S1
Ss and S1 = Mapped Spectral Acceleration Values
Site Class B - Fa = 1.0 ,Fv = 1.0
Data are based on a 0.01 deg grid spacing

Period (sec)	Sa (g)
0.2	1.754 (Ss, Site Class B)
1.0	0.612 (S1, Site Class B)

Conterminous 48 States
2005 ASCE 7 Standard
Latitude = 34.2094
Longitude = -118.4423
Spectral Response Accelerations SMs and SM1
SMs = Fa x Ss and SM1 = Fv x S1
Site Class D - Fa = 1.0 ,Fv = 1.5

Period (sec)	Sa (g)
0.2	1.754 (SMs, Site Class D)
1.0	0.918 (SM1, Site Class D)

Conterminous 48 States
2005 ASCE 7 Standard
Latitude = 34.2094
Longitude = -118.4423
Design Spectral Response Accelerations SDs and SD1
SDs = 2/3 x SMs and SD1 = 2/3 x SM1
Site Class D - Fa = 1.0 ,Fv = 1.5

Period (sec)	Sa (g)
0.2	1.169 (SDs, Site Class D)
1.0	0.612 (SD1, Site Class D)

```
*** Deaggregation of Seismic Hazard at One Period of Spectral Accel. ***
*** Data from U.S.G.S. National Seismic Hazards Mapping Project, 2008 version ***
PSHA Deaggregation. %contributions. site: Van_Nuys long: 118.442 W., lat: 34.209 N.
 Vs30(m/s)= 760.0 (some WUS atten. models use Site Class not Vs30).
NSHMP 2007-08  See USGS OFR 2008-1128, dM=0.2 below
Return period: 2475  yrs. Exceedance PGA =0.7716   g. Weight * Computed_Rate_Ex
0.404E-03
#Pr[at least one eq with median motion>=PGA in 50 yrs]=0.00023
#This deaggregation corresponds to Mean Hazard w/all GMPEs
```

DIST(KM)	MAG(MW)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
7.0	5.05	0.334	0.329	0.005	0.000	0.000	0.000	0.000
7.0	5.20	0.771	0.665	0.106	0.000	0.000	0.000	0.000
7.0	5.40	0.887	0.633	0.254	0.000	0.000	0.000	0.000
12.4	5.41	0.059	0.059	0.000	0.000	0.000	0.000	0.000
7.0	5.60	0.923	0.594	0.329	0.000	0.000	0.000	0.000
12.7	5.60	0.097	0.097	0.000	0.000	0.000	0.000	0.000
7.0	5.80	0.872	0.479	0.394	0.000	0.000	0.000	0.000
12.9	5.80	0.132	0.132	0.000	0.000	0.000	0.000	0.000
6.9	6.01	1.162	0.526	0.636	0.000	0.000	0.000	0.000
12.8	6.01	0.183	0.183	0.000	0.000	0.000	0.000	0.000
7.3	6.21	1.828	0.828	0.975	0.025	0.000	0.000	0.000
13.8	6.23	0.235	0.231	0.003	0.000	0.000	0.000	0.000
8.3	6.44	3.629	2.130	1.409	0.090	0.000	0.000	0.000
13.7	6.48	3.027	1.881	0.931	0.215	0.000	0.000	0.000
7.4	6.61	5.251	2.256	2.841	0.154	0.000	0.000	0.000
13.6	6.61	20.569	7.644	10.013	2.912	0.000	0.000	0.000
6.7	6.77	3.527	1.513	1.869	0.144	0.000	0.000	0.000
13.3	6.77	24.494	6.218	13.672	4.604	0.000	0.000	0.000
22.1	6.78	0.085	0.085	0.000	0.000	0.000	0.000	0.000
6.9	6.97	2.179	0.770	1.294	0.115	0.000	0.000	0.000
13.4	6.95	11.569	2.722	6.077	2.761	0.009	0.000	0.000
21.5	6.99	0.180	0.168	0.012	0.000	0.000	0.000	0.000
31.6	7.06	0.055	0.055	0.000	0.000	0.000	0.000	0.000
9.3	7.19	1.344	0.560	0.720	0.065	0.000	0.000	0.000
13.4	7.20	6.938	2.027	3.323	1.581	0.008	0.000	0.000
21.9	7.15	0.188	0.152	0.037	0.000	0.000	0.000	0.000
31.4	7.18	0.172	0.172	0.000	0.000	0.000	0.000	0.000
9.4	7.34	1.464	0.553	0.814	0.097	0.000	0.000	0.000
12.6	7.36	5.699	1.147	3.157	1.360	0.035	0.000	0.000
28.4	7.35	0.121	0.117	0.004	0.000	0.000	0.000	0.000
31.7	7.34	0.083	0.083	0.000	0.000	0.000	0.000	0.000
9.4	7.51	0.111	0.037	0.063	0.010	0.000	0.000	0.000
12.8	7.52	1.295	0.281	0.641	0.361	0.011	0.000	0.000
29.0	7.60	0.082	0.082	0.000	0.000	0.000	0.000	0.000
28.6	7.78	0.060	0.058	0.002	0.000	0.000	0.000	0.000
47.0	7.77	0.069	0.069	0.000	0.000	0.000	0.000	0.000
47.1	7.98	0.161	0.161	0.000	0.000	0.000	0.000	0.000

```
Summary statistics for above PSHA PGA  deaggregation, R=distance, e=epsilon:
Contribution from this GMPE(%):  100.0
 Mean src-site R=   12.2 km; M= 6.75; eps0=   1.23. Mean calculated for all sources.
```

Modal src-site R= 13.3 km; M= 6.77; eps0= 1.05 from peak (R,M) bin
MODE R*= 13.3km; M*= 6.76; EPS.INTERVAL: 1 to 2 sigma % CONTRIB.= 13.672

Principal sources (faults, subduction, random seismicity having > 3% contribution)

Source Category:	% contr.	R(km)	M	epsilon0 (mean values).
California B-faults Char	62.85	12.6	6.90	1.13
California B-faults GR	26.07	12.7	6.70	1.34
CA Compr. crustal gridded	10.80	7.4	6.01	1.49

Individual fault hazard details if its contribution to mean hazard > 2%:

Fault ID	% contr.	Rcd(km)	M	epsilon0	Site-to-src azimuth (d)
Hollywood Char	2.10	13.1	6.61	2.04	151.8
Verdugo Char	4.26	5.8	6.78	1.36	41.8
Sierra Madre (San Fernando) Char	2.88	9.4	6.60	1.93	-11.0
Northridge Char	32.43	13.3	6.78	0.81	26.0
Santa Susana, alt 1 Char	2.58	13.0	6.81	2.19	-34.9
Santa Monica Connected alt 1 Cha	5.97	12.3	7.31	0.70	172.3
Santa Monica Connected alt 2 Cha	3.93	11.7	7.35	0.86	150.5
Sierra Madre Connected Char	3.11	9.4	7.26	1.39	-11.0
Verdugo GR	2.81	7.5	6.65	1.41	48.5
Northridge GR	14.60	13.6	6.67	1.06	-29.7

#*********End of deaggregation corresponding to Mean Hazard w/all GMPEs *********#

PSHA Deaggregation. %contributions. site: Van_Nuys long: 118.442 W., lat: 34.209 N.
Vs30(m/s)= 760.0 (some WUS atten. models use Site Class not Vs30).
NSHMP 2007-08 See USGS OFR 2008-1128. dM=0.2 below
Return period: 2475 yrs. Exceedance PGA =0.7716 g. Weight * Computed_Rate_Ex
0.143E-03
#Pr[at least one eq with median motion>=PGA in 50 yrs]=0.00020
#This deaggregation corresponds to Boore-Atkinson 2008

DIST(KM)	MAG(MW)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
7.0	5.41	0.019	0.019	0.000	0.000	0.000	0.000	0.000
7.0	5.61	0.035	0.035	0.000	0.000	0.000	0.000	0.000
7.0	5.80	0.055	0.055	0.000	0.000	0.000	0.000	0.000
6.3	6.02	0.125	0.122	0.004	0.000	0.000	0.000	0.000
6.6	6.21	0.223	0.207	0.016	0.000	0.000	0.000	0.000
13.7	6.26	0.021	0.021	0.000	0.000	0.000	0.000	0.000
8.1	6.44	0.473	0.442	0.031	0.000	0.000	0.000	0.000
13.4	6.48	1.035	0.431	0.412	0.191	0.000	0.000	0.000
7.4	6.59	0.611	0.522	0.089	0.000	0.000	0.000	0.000
13.4	6.62	8.974	2.181	4.245	2.548	0.000	0.000	0.000
22.2	6.58	0.020	0.020	0.000	0.000	0.000	0.000	0.000
6.8	6.75	0.829	0.531	0.298	0.000	0.000	0.000	0.000
13.3	6.76	10.987	1.892	5.652	3.443	0.000	0.000	0.000
22.3	6.77	0.051	0.051	0.000	0.000	0.000	0.000	0.000
7.0	6.97	0.458	0.243	0.214	0.001	0.000	0.000	0.000
13.3	6.94	5.594	0.951	2.623	2.011	0.009	0.000	0.000
22.5	6.99	0.076	0.075	0.000	0.000	0.000	0.000	0.000
31.0	7.08	0.060	0.060	0.000	0.000	0.000	0.000	0.000
9.2	7.19	0.351	0.195	0.155	0.001	0.000	0.000	0.000
13.7	7.18	2.018	0.712	0.950	0.347	0.008	0.000	0.000
23.7	7.17	0.062	0.060	0.003	0.000	0.000	0.000	0.000

32.1	7.20	0.073	0.073	0.000	0.000	0.000	0.000	0.000
9.4	7.34	0.379	0.185	0.193	0.000	0.000	0.000	0.000
12.9	7.35	1.847	0.438	1.077	0.332	0.000	0.000	0.000
28.9	7.35	0.073	0.073	0.000	0.000	0.000	0.000	0.000
32.1	7.34	0.048	0.048	0.000	0.000	0.000	0.000	0.000
9.4	7.51	0.029	0.012	0.017	0.000	0.000	0.000	0.000
13.7	7.52	0.372	0.117	0.202	0.053	0.000	0.000	0.000
28.9	7.59	0.051	0.051	0.000	0.000	0.000	0.000	0.000
47.0	7.57	0.018	0.018	0.000	0.000	0.000	0.000	0.000
28.6	7.78	0.046	0.044	0.002	0.000	0.000	0.000	0.000
47.0	7.77	0.069	0.069	0.000	0.000	0.000	0.000	0.000
47.1	7.98	0.141	0.141	0.000	0.000	0.000	0.000	0.000
47.1	8.20	0.018	0.018	0.000	0.000	0.000	0.000	0.000

Summary statistics for above PSHA PGA deaggregation, R=distance, e=epsilon:
Contribution from this GMPE(%): 35.3
Mean src-site R= 13.2 km; M= 6.82; eps0= 1.02. Mean calculated for all sources.
Modal src-site R= 13.3 km; M= 6.76; eps0= 0.81 from peak (R,M) bin
MODE R*= 13.3km; M*= 6.76; EPS.INTERVAL: 1 to 2 sigma % CONTRIB.= 5.652

Principal sources (faults, subduction, random seismicity having > 3% contribution)

Source Category:	% contr.	R(km)	M	epsilon0 (mean values).
California B-faults Char	25.58	13.2	6.87	0.94
California B-faults GR	8.53	13.1	6.71	1.11

Individual fault hazard details if its contribution to mean hazard > 2%:

Fault ID	% contr.	Rcd(km)	M	epsilon0	Site-to-src azimuth (d)
Hollywood Char	0.79	13.1	6.62	2.00	151.8
Verdugo Char	0.84	5.8	6.80	1.64	41.8
Sierra Madre (San Fernando) Char	0.54	9.4	6.63	2.14	-11.0
Northridge Char	17.07	13.3	6.78	0.60	26.0
Santa Susana, alt 1 Char	0.77	13.0	6.82	2.24	-34.9
Santa Monica Connected alt 1 Cha	1.93	12.3	7.30	0.84	172.3
Santa Monica Connected alt 2 Cha	0.84	11.7	7.35	1.18	150.5
Sierra Madre Connected Char	0.80	9.4	7.26	1.56	-11.0
Verdugo GR	0.30	6.9	6.68	1.87	48.5
Northridge GR	6.38	13.5	6.68	0.84	-29.7

#*********End of deaggregation corresponding to Boore-Atkinson 2008 *********#

PSHA Deaggregation. %contributions. site: Van_Nuys long: 118.442 W., lat: 34.209 N.
Vs30(m/s)= 760.0 (some WUS atten. models use Site Class not Vs30).
NSHMP 2007-08 See USGS OFR 2008-1128. dM=0.2 below
Return period: 2475 yrs. Exceedance PGA =0.7716 g. Weight * Computed_Rate_Ex 0.850E-04
#Pr[at least one eq with median motion>=PGA in 50 yrs]=0.00000
#This deaggregation corresponds to Campbell-Bozorgnia 2008

DIST(KM)	MAG(MW)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
7.0	5.05	0.042	0.042	0.000	0.000	0.000	0.000	0.000
7.0	5.21	0.147	0.147	0.000	0.000	0.000	0.000	0.000
7.0	5.41	0.248	0.248	0.000	0.000	0.000	0.000	0.000
7.0	5.60	0.293	0.269	0.024	0.000	0.000	0.000	0.000
12.3	5.61	0.012	0.012	0.000	0.000	0.000	0.000	0.000

7.0	5.80	0.268	0.222	0.047	0.000	0.000	0.000	0.000
12.5	5.81	0.021	0.021	0.000	0.000	0.000	0.000	0.000
6.8	6.01	0.333	0.277	0.056	0.000	0.000	0.000	0.000
12.5	6.01	0.035	0.035	0.000	0.000	0.000	0.000	0.000
7.2	6.21	0.549	0.446	0.102	0.000	0.000	0.000	0.000
13.8	6.23	0.053	0.053	0.000	0.000	0.000	0.000	0.000
8.0	6.43	1.071	0.772	0.299	0.000	0.000	0.000	0.000
14.3	6.47	0.626	0.510	0.117	0.000	0.000	0.000	0.000
7.3	6.61	2.356	1.060	1.274	0.021	0.000	0.000	0.000
13.6	6.62	5.236	2.908	2.328	0.000	0.000	0.000	0.000
7.0	6.78	0.993	0.451	0.531	0.011	0.000	0.000	0.000
13.5	6.79	2.771	1.463	1.308	0.000	0.000	0.000	0.000
21.3	6.83	0.012	0.012	0.000	0.000	0.000	0.000	0.000
6.6	6.96	0.603	0.247	0.349	0.007	0.000	0.000	0.000
13.5	6.95	1.848	0.813	0.994	0.040	0.000	0.000	0.000
20.9	7.00	0.029	0.028	0.001	0.000	0.000	0.000	0.000
31.3	7.06	0.020	0.020	0.000	0.000	0.000	0.000	0.000
9.0	7.19	0.313	0.168	0.140	0.006	0.000	0.000	0.000
13.1	7.21	1.611	0.520	0.882	0.209	0.000	0.000	0.000
20.9	7.15	0.036	0.031	0.004	0.000	0.000	0.000	0.000
31.3	7.20	0.029	0.029	0.000	0.000	0.000	0.000	0.000
9.4	7.34	0.321	0.171	0.150	0.000	0.000	0.000	0.000
12.7	7.37	0.851	0.294	0.460	0.096	0.000	0.000	0.000
28.1	7.35	0.011	0.011	0.001	0.000	0.000	0.000	0.000
31.2	7.33	0.014	0.014	0.000	0.000	0.000	0.000	0.000
9.4	7.51	0.023	0.012	0.011	0.000	0.000	0.000	0.000
12.3	7.53	0.252	0.066	0.141	0.044	0.000	0.000	0.000

Summary statistics for above PSHA PGA deaggregation, R=distance, e=epsilon:
Contribution from this GMPE(%): 21.0
Mean src-site R= 11.4 km; M= 6.71; eps0= 1.58. Mean calculated for all sources.
Modal src-site R= 13.6 km; M= 6.62; eps0= 1.71 from peak (R,M) bin
MODE R*= 13.9km; M*= 6.61; EPS.INTERVAL: 1 to 2 sigma % CONTRIB.= 2.908

Principal sources (faults, subduction, random seismicity having > 3% contribution)

Source Category:	% contr.	R(km)	M	epsilon0 (mean values).
California B-faults Char	11.90	12.2	6.89	1.56
California B-faults GR	5.95	12.1	6.69	1.66
CA Compr. crustal gridded	3.20	7.1	6.09	1.50

Individual fault hazard details if its contribution to mean hazard > 2%:

Fault ID	% contr.	Rcd(km)	M	epsilon0	Site-to-src azimuth (d)
Hollywood Char	0.50	13.1	6.60	2.15	151.8
Verdugo Char	1.38	5.8	6.78	1.41	41.8
Sierra Madre (San Fernando) Char	0.88	9.4	6.59	2.00	-11.0
Northridge Char	4.68	13.3	6.78	1.37	26.0
Santa Susana, alt 1 Char	0.55	13.0	6.80	2.33	-34.9
Santa Monica Connected alt 1 Cha	0.85	12.3	7.31	1.25	172.3
Santa Monica Connected alt 2 Cha	1.05	11.7	7.35	1.03	150.5
Sierra Madre Connected Char	0.71	9.4	7.25	1.57	-11.0
Verdugo GR	1.25	7.7	6.65	1.35	48.5
Northridge GR	2.28	13.7	6.67	1.54	-29.7

#*********End of deaggregation corresponding to Campbell-Bozorgnia 2008 *********#

PSHA Deaggregation. %contributions. site: Van_Nuys long: 118.442 W., lat: 34.209 N.
Vs30(m/s)= 760.0 (some WUS atten. models use Site Class not Vs30).
NSHMP 2007-08 See USGS OFR 2008-1128. dM=0.2 below
Return period: 2475 yrs. Exceedance PGA =0.7716 g. Weight * Computed_Rate_Ex
0.176E-03
#Pr[at least one eq with median motion>=PGA in 50 yrs]=0.00048
#This deaggregation corresponds to Chiou-Youngs 2008

DIST(KM)	MAG(MW)	ALL_EPS	EPSILON>2	1<EPS<2	0<EPS<1	-1<EPS<0	-2<EPS<-1	EPS<-2
7.0	5.05	0.291	0.291	0.000	0.000	0.000	0.000	0.000
7.0	5.20	0.614	0.601	0.014	0.000	0.000	0.000	0.000
12.2	5.21	0.028	0.028	0.000	0.000	0.000	0.000	0.000
7.0	5.40	0.620	0.545	0.075	0.000	0.000	0.000	0.000
12.5	5.41	0.055	0.055	0.000	0.000	0.000	0.000	0.000
7.0	5.60	0.594	0.474	0.121	0.000	0.000	0.000	0.000
12.7	5.60	0.084	0.084	0.000	0.000	0.000	0.000	0.000
7.0	5.80	0.549	0.410	0.139	0.000	0.000	0.000	0.000
13.0	5.80	0.111	0.111	0.000	0.000	0.000	0.000	0.000
7.0	6.01	0.704	0.477	0.227	0.000	0.000	0.000	0.000
12.9	6.01	0.145	0.145	0.000	0.000	0.000	0.000	0.000
7.5	6.20	1.056	0.701	0.354	0.000	0.000	0.000	0.000
13.8	6.22	0.156	0.155	0.000	0.000	0.000	0.000	0.000
8.3	6.44	1.868	1.249	0.619	0.000	0.000	0.000	0.000
13.8	6.47	1.159	0.796	0.340	0.023	0.000	0.000	0.000
7.3	6.61	2.794	1.141	1.637	0.016	0.000	0.000	0.000
13.7	6.60	7.876	3.052	4.460	0.364	0.000	0.000	0.000
7.1	6.78	1.413	0.572	0.814	0.026	0.000	0.000	0.000
13.3	6.77	9.279	2.415	5.702	1.162	0.000	0.000	0.000
21.4	6.83	0.031	0.031	0.000	0.000	0.000	0.000	0.000
7.0	6.97	1.047	0.291	0.699	0.056	0.000	0.000	0.000
13.5	6.96	4.343	1.136	2.496	0.711	0.000	0.000	0.000
20.9	7.00	0.064	0.053	0.011	0.000	0.000	0.000	0.000
9.2	7.19	0.750	0.216	0.469	0.065	0.000	0.000	0.000
13.2	7.20	2.845	0.678	1.347	0.820	0.000	0.000	0.000
21.0	7.15	0.092	0.062	0.030	0.000	0.000	0.000	0.000
31.1	7.17	0.043	0.043	0.000	0.000	0.000	0.000	0.000
9.4	7.34	0.765	0.197	0.471	0.097	0.000	0.000	0.000
12.5	7.35	3.401	0.486	1.747	1.134	0.035	0.000	0.000
27.5	7.35	0.036	0.033	0.003	0.000	0.000	0.000	0.000
9.4	7.51	0.059	0.013	0.036	0.010	0.000	0.000	0.000
12.6	7.52	0.672	0.098	0.298	0.264	0.011	0.000	0.000
28.6	7.75	0.023	0.023	0.000	0.000	0.000	0.000	0.000

Summary statistics for above PSHA PGA deaggregation, R=distance, e=epsilon:
Contribution from this GMPE(%): 43.7
Mean src-site R= 11.7 km; M= 6.72; eps0= 1.23. Mean calculated for all sources.
Modal src-site R= 13.3 km; M= 6.77; eps0= 1.11 from peak (R,M) bin
MODE R*= 13.3km; M*= 6.76; EPS.INTERVAL: 1 to 2 sigma % CONTRIB.= 5.702

Principal sources (faults, subduction, random seismicity having > 3% contribution)
Source Category: % contr. R(km) M epsilon0 (mean values).

California B-faults Char	25.37	12.3	6.93	1.12
California B-faults GR	11.59	12.7	6.71	1.34
CA Compr. crustal gridded	6.68	7.7	5.93	1.45

Individual fault hazard details if its contribution to mean hazard > 2%:

Fault ID	% contr.	Rcd(km)	M	epsilon0	Site-to-src azimuth (d)
Hollywood Char	0.82	13.1	6.60	2.00	151.8
Verdugo Char	2.04	5.8	6.78	1.21	41.8
Sierra Madre (San Fernando) Char	1.47	9.4	6.59	1.82	-11.0
Northridge Char	10.68	13.3	6.79	0.91	26.0
Santa Susana, alt 1 Char	1.26	13.0	6.81	2.10	-34.9
Santa Monica Connected alt 1 Cha	3.19	12.3	7.31	0.47	172.3
Santa Monica Connected alt 2 Cha	2.04	11.7	7.35	0.64	150.5
Sierra Madre Connected Char	1.60	9.4	7.26	1.23	-11.0
Verdugo GR	1.25	7.5	6.65	1.37	48.5
Northridge GR	5.94	13.8	6.66	1.12	-29.7

#*********End of deaggregation corresponding to Chiou-Youngs 2008 *********#

********** Southern California **********

APPENDIX F

APPENDIX F

GENERAL EARTHWORK AND GRADING SPECIFICATIONS

1.0 General

1.1 Intent: These General Earthwork and Grading Specifications are for the grading and earthwork shown on the approved grading plan(s) and/or indicated in the geotechnical report(s). These Specifications are a part of the recommendations contained in the geotechnical report(s). In case of conflict, the specific recommendations in the geotechnical report shall supersede these more general Specifications. Observations of the earthwork by the project Geotechnical Consultant during the course of grading may result in new or revised recommendations that could supersede these specifications or the recommendations in the geotechnical report(s).

1.2 Geotechnical Consultant: Prior to commencement of work, the owner shall employ a geotechnical consultant. The geotechnical consultant shall be responsible for reviewing the approved geotechnical report(s) and accepting the adequacy of the preliminary geotechnical findings, conclusions, and recommendations prior to the commencement of the grading.

Prior to commencement of grading, the Geotechnical Consultant shall review the "work plan" prepared by the Earthwork Contractor (Contractor) and schedule sufficient personnel to perform the appropriate level of observation, mapping, and compaction testing.

During the grading and earthwork operations, the Geotechnical Consultant shall observe, map, and document the subsurface exposures to verify the geotechnical design assumptions. If the observed conditions are found to be significantly different than the interpreted assumptions during the design phase, the Geotechnical Consultant shall inform the owner, recommend appropriate changes in design to accommodate the observed conditions, and notify the review agency where required. Subsurface areas to be geotechnically observed, mapped, elevations recorded, and/or tested include natural ground after it has been cleared for receiving fill but before fill is placed, bottoms of all "remedial removal" areas, all key bottoms, and benches made on sloping ground to receive fill.

The Geotechnical Consultant shall observe the moisture-conditioning and processing of the subgrade and fill materials and perform relative compaction testing of fill to determine the attained level of compaction. The Geotechnical Consultant shall provide the test results to the owner and the Contractor on a routine and frequent basis.

1.3 The Earthwork Contractor: The Earthwork Contractor (Contractor) shall be qualified, experienced, and knowledgeable in earthwork logistics, preparation and processing of ground to receive fill, moisture-conditioning and processing of fill, and compacting fill. The Contractor shall review and accept the plans, geotechnical report(s), and these Specifications prior to commencement of grading. The Contractor shall be solely responsible for performing the grading in accordance with the plans and specifications.

The Contractor shall prepare and submit to the owner and the Geotechnical Consultant a work plan that indicates the sequence of earthwork grading, the number of "spreads" of work and the estimated quantities of daily earthwork contemplated for the site prior to commencement of grading. The Contractor shall inform the owner and the Geotechnical Consultant of changes in work schedules and updates to the work plan at least 24 hours in advance of such changes so that appropriate observations and tests can be planned and accomplished. The Contractor shall not assume that the Geotechnical Consultant is aware of all grading operations.

The Contractor shall have the sole responsibility to provide adequate equipment and methods to accomplish the earthwork in accordance with the applicable grading codes and agency ordinances, these Specifications, and the recommendations in the approved geotechnical report(s) and grading plan(s). If, in the opinion of the Geotechnical Consultant, unsatisfactory conditions, such as unsuitable soil, improper moisture condition, inadequate compaction, insufficient buttress key size, adverse weather, etc., are resulting in a quality of work less than required in these specifications, the Geotechnical Consultant shall reject the work and may recommend to the owner that construction be stopped until the conditions are rectified.

2.0 Preparation of Areas to be Filled

2.1 Clearing and Grubbing: Vegetation, such as brush, grass, roots, and other deleterious material shall be sufficiently removed and properly disposed of in a method acceptable to the owner, governing agencies, and the Geotechnical Consultant.

The Geotechnical Consultant shall evaluate the extent of these removals depending on specific site conditions. Earth fill material shall not contain more than 1 percent of organic materials (by volume). No fill lift shall contain more than 5 percent of organic matter. Nesting of the organic materials shall not be allowed.

If potentially hazardous materials are encountered, the Contractor shall stop work in the affected area, and a hazardous material specialist shall be informed

immediately for proper evaluation and handling of these materials prior to continuing to work in that area.

As presently defined by the State of California, most refined petroleum products (gasoline, diesel fuel, motor oil, grease, coolant, etc.) have chemical constituents that are considered to be hazardous waste. As such, the indiscriminate dumping or spillage of these fluids onto the ground may constitute a misdemeanor, punishable by fines and/or imprisonment, and shall not be allowed.

2.2 Processing: Existing ground that has been declared satisfactory for support of fill by the Geotechnical Consultant shall be scarified to a minimum depth of 6 inches. Existing ground that is not satisfactory shall be overexcavated as specified in the following section. Scarification shall continue until soils are broken down and free of large clay lumps or clods and the working surface is reasonably uniform, flat, and free of uneven features that would inhibit uniform compaction.

2.3 Overexcavation: In addition to removals and overexcavations recommended in the approved geotechnical report(s) and the grading plan, soft, loose, dry, saturated, spongy, organic-rich, highly fractured or otherwise unsuitable ground shall be overexcavated to competent ground as evaluated by the Geotechnical Consultant during grading.

2.4 Benching: Where fills are to be placed on ground with slopes steeper than 5:1 (horizontal to vertical units), the ground shall be stepped or benched. Please see the Standard Details for a graphic illustration. The lowest bench or key shall be a minimum of 15 feet wide and at least 2 feet deep, into competent material as evaluated by the Geotechnical Consultant. Other benches shall be excavated a minimum height of 4 feet into competent material or as otherwise recommended by the Geotechnical Consultant. Fill placed on ground sloping flatter than 5:1 shall also be benched or otherwise overexcavated to provide a flat subgrade for the fill.

2.5 Evaluation/Acceptance of Fill Areas: All areas to receive fill, including removal and processed areas, key bottoms, and benches, shall be observed, mapped, elevations recorded, and/or tested prior to being accepted by the Geotechnical Consultant as suitable to receive fill. The Contractor shall obtain a written acceptance from the Geotechnical Consultant prior to fill placement. A licensed surveyor shall provide the survey control for determining elevations of processed areas, keys, and benches.

3.0 Fill Material

3.1 General: Material to be used as fill shall be essentially free of organic matter and other deleterious substances evaluated and accepted by the Geotechnical Consultant prior to placement. Soils of poor quality, such as those with unacceptable gradation, high expansion potential, or low strength shall be placed in areas acceptable to the Geotechnical Consultant or mixed with other soils to achieve satisfactory fill material.

3.2 Oversize: Oversize material defined as rock, or other irreducible material with a maximum dimension greater than 12 inches, shall not be buried or placed in fill unless location, materials, and placement methods are specifically accepted by the Geotechnical Consultant. Placement operations shall be such that nesting of oversized material does not occur and such that oversize material is completely surrounded by compacted or densified fill. Oversize material shall not be placed within 10 vertical feet of finish grade or within 2 feet of future utilities or underground construction.

3.3 Import: If importing of fill material is required for grading, proposed import material shall meet the requirements of Section 3.1. The potential import source shall be given to the Geotechnical Consultant at least 48 hours (2 working days) before importing begins so that its suitability can be determined and appropriate tests performed.

4.0 Fill Placement and Compaction

4.1 Fill Layers: Approved fill material shall be placed in areas prepared to receive fill (per Section 3.0) in near-horizontal layers not exceeding 8 inches in loose thickness. The Geotechnical Consultant may accept thicker layers if testing indicates the grading procedures can adequately compact the thicker layers. Each layer shall be spread evenly and mixed thoroughly to attain relative uniformity of material and moisture throughout.

4.2 Fill Moisture Conditioning: Fill soils shall be watered, dried back, blended, and/or mixed, as necessary to attain a relatively uniform moisture content at or slightly over optimum. Maximum density and optimum soil moisture content tests shall be performed in accordance with the American Society of Testing and Materials (ASTM Test Method D1557-91).

4.3 Compaction of Fill: After each layer has been moisture-conditioned, mixed, and evenly spread, it shall be uniformly compacted to not less than 90 percent of maximum dry density (ASTM Test Method D1557-91). Compaction equipment shall be adequately sized and be either specifically designed for soil compaction or of proven reliability to efficiently achieve the specified level of compaction with uniformity.

4.4 Compaction of Fill Slopes: In addition to normal compaction procedures specified above, compaction of slopes shall be accomplished by backrolling of slopes with sheepsfoot rollers at increments of 3 to 4 feet in fill elevation, or by other methods producing satisfactory results acceptable to the Geotechnical Consultant. Upon completion of grading, relative compaction of the fill, out to the slope face, shall be at least 90 percent of maximum density per ASTM Test Method D1557-91.

4.5 Compaction Testing: Field tests for moisture content and relative compaction of the fill soils shall be performed by the Geotechnical Consultant. Location and frequency of tests shall be at the Consultant's discretion based on field conditions encountered. Compaction test locations will not necessarily be selected on a random basis. Test locations shall be selected to verify adequacy of compaction levels in areas that are judged to be prone to inadequate compaction (such as close to slope faces and at the fill/bedrock benches).

4.6 Frequency of Compaction Testing: Tests shall be taken at intervals not exceeding 2 feet in vertical rise and/or 1,000 cubic yards of compacted fill soils embankment. In addition, as a guideline, at least one test shall be taken on slope faces for each 5,000 square feet of slope face and/or each 10 feet of vertical height of slope. The Contractor shall assure that fill construction is such that the testing schedule can be accomplished by the Geotechnical Consultant. The Contractor shall stop or slow down the earthwork construction if these minimum standards are not met.

4.7 Compaction Test Locations: The Geotechnical Consultant shall document the approximate elevation and horizontal coordinates of each test location. The Contractor shall coordinate with the project surveyor to assure that sufficient grade stakes are established so that the Geotechnical Consultant can determine the test locations with sufficient accuracy. At a minimum, two grade stakes within a horizontal distance of 100 feet and vertically less than 5 feet apart from potential test locations shall be provided.

5.0 Subdrain Installation

Subdrain systems shall be installed in accordance with the approved geotechnical report(s), the grading plan, and the Standard Details. The Geotechnical Consultant may recommend additional subdrains and/or changes in subdrain extent, location, grade, or material depending on conditions encountered during grading. All subdrains shall be surveyed by a land surveyor/civil engineer for line and grade after installation and prior to burial. Sufficient time should be allowed by the Contractor for these surveys.

6.0 Excavation

Excavations, as well as over-excavation for remedial purposes, shall be evaluated by the Geotechnical Consultant during grading. Remedial removal depths shown on geotechnical plans are estimates only. The actual extent of removal shall be determined by the Geotechnical Consultant based on the field evaluation of exposed conditions during grading. Where fill-over-cut slopes are to be graded, the cut portion of the slope shall be made, evaluated, and accepted by the Geotechnical Consultant prior to placement of materials for construction of the fill portion of the slope, unless otherwise recommended by the Geotechnical Consultant.

7.0 Trench Backfills

7.1 Contractor shall follow all OHSA and Cal/OSHA requirements for safety of trench excavations.

7.2 Bedding and backfill of utility trenches shall be done in accordance with the applicable provisions of Standard Specifications of Public Works Construction. Bedding material shall have a Sand Equivalent greater than 30 (SE>30). The bedding shall be placed to 1 foot over the top of the conduit and densified by jetting. Backfill shall be placed and densified to a minimum 90 percent of maximum from 1 foot above the top of the conduit to the surface, except in traveled ways (see Section 7.6 below).

7.3 Jetting of the bedding around the conduits shall be observed by the Geotechnical Consultant.

7.4 Geotechnical Consultant shall test the trench backfill for relative compaction. At least one test should be made for every 300 feet of trench and 2 feet of fill.

7.5 Lift thickness of trench backfill shall not exceed those allowed in the Standard Specifications of Public Works Construction unless the Contractor can demonstrate to the Geotechnical Consultant that the fill lift can be compacted to the minimum relative compaction by his alternative equipment and method.

7.6 Trench backfill in the upper foot measured from finish grade within existing or future traveled way, shoulder, and other paved areas (or areas to receive pavement) should be placed to a minimum 95 percent relative compaction.

DEPARTMENT OF WATER & POWER
OF THE CITY OF LOS ANGELES
Power System
Integrated Support Services

ENVIRONMENTAL LABORATORY DATA REPORT

CLIENT: GEORGE FEAUSTLE

PROJECT: 7600 TYRONE AVE

REPORT NO.: C12054

TABLE OF CONTENTS

DEPARTMENT OF WATER & POWER
OF THE CITY OF LOS ANGELES
Power System
Integrated Support Services

ENVIRONMENTAL LABORATORY DATA REPORT

7600 TYRONE AVE, VAN NUYS
Soil Samples

Soil samples from 7600 Tyrone Ave, Van Nuys, were submitted to the Environmental Laboratory on May 28, 2013 for the determination of their Volatile Organic Compounds (VOC), Metals, Semi-Volatile Organic Compounds (SVOC), Total Extractable Petroleum Hydrocarbons (TEPH) including Motor Oil (MO) and Diesel Range Organic (DRO), Chlorinated Pesticides, Polychlorinated Biphenyls (PCBs), and Gasoline Range Organics (GRO) content.

Testing information including tests requested and test methods are listed below. All quality assurance data indicate that the results for these samples are of acceptable quality.

Analysis Requested	Method	Results	Analyzed by
VOC	EPA 8260 B	**Attachment #1**	Environmental Lab
Metals	EPA 6010B/7471	**Attachment #2**	Environmental Lab
TEPH/Diesel/Motor Oil	EPA 8015M	**Attachment #3**	Environmental Lab
GRO	EPA 8015B	**Attachment #4**	Environmental Lab
PCB	EPA 8082	**Attachment #5**	Weck Laboratories
Pesticides	EPA 8081	**Attachment #6 PENDING**	Weck Laboratories
SVOC	EPA 8270 C	**Attachment #7**	Weck Laboratories

An updated version of this report will be delivered upon completion of pesticide data.

If you have any questions, or if further information is required, please contact Mr. Jeremy Stoa at (213) 367-7266 or Mr. Kevin Han at (213) 367-7267.

Date Completed: 6/6/2013
Work Order No.: AHJ17
Job Card No.: J95550
Copies to: G. Feaustle
N. Liu
K. Han
J. Stoa
FileNet

Test Performed by: Environmental Lab
Weck Laboratories
Report By: JS Date: 6/06/13
Checked by: [signature] Date: 6/7/13

APPROVED BY: [signature] 6/7/13
Kevin Han Date
Interim Laboratory Manager
Environmental Laboratory

Environme l Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
(213) 367-7248/7399
(213) 367-7285 FAX

Department of Water and Po r
City of Los Angeles

Chain of Custody Record

COC #: 13-1321 Page 1 of 4

Report C#____ JC# J95550 WO# AHJ77
Refrig#. R154 Shelf____ Bin#.____
Initial of Field Personnel: No. of Field Test:

Sample Location: Tyrone property, 7600 Tyrone Ave, Van Nuys CA

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Type	Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1 B21-1' LN06205	5/28/13	0800		5035/ICE	5	ENCORE SLEEVE		SOIL	(6010B) T-22 Metals/(8015M) TPH cc/(8270C) SVOCs		
2 B21-2' 06206	↓	0802	ARCHIVE	↓	↓	↓	↓	↓	(ARCHIVE)		
3 B21-3' 06207	↓	0804		↓	↓	↓	↓	↓	↓		
4 B19-1' 06208	↓	0810		↓	3	SLEEVE		↓	OCPs (8081A) + As (6010B)		
5 -2' 06209	↓	0812	ARCHIVE	↓	3	↓	↓	↓	(ARCHIVE)		
6 -3' 06210	↓	0814		↓	3	↓	↓	↓	↓		
7 B1-1' 06211	↓	0825		↓	↓	↓	↓	↓	Lead (6010B)		
8 -2' 06212	↓	0827	ARCHIVE	↓	↓	↓	↓	↓	(ARCHIVE)		
9 -3' 06213	↓	0830		↓	↓	↓	↓	↓	↓		
10 B22-1' 06214	↓	0850		↓	5	ENCORE SLEEVE		SOIL	T-22 Metals/TPHcc/SVOCs		
11 -2' 06215	↓	0852	ARCHIVE	↓	↓	↓	↓	↓	(ARCHIVE)		
12 -3' 06216	↓	0854		↓	↓	↓	↓	↓	↓		
13 B25-1' 06217	↓	0900		↓	7	ENCORE SLEEVE		↓	T-22 Metals/TPHcc./SVOCs/(8260B) VOCs/PCBs (8082)		
14 -2' 06218	↓	0902	ARCHIVE	↓	↓	↓	↓	↓	(ARCHIVE)		
15 -3' 06219	↓	0904		↓	↓	↓	↓	↓	↓		
16 B4-1' 06220	↓	0910		↓	1	SLEEVE		↓	Pb (6010B)		

RUSH

Date & Time Stamp

LADWP 2013 MAY 28 PM 1:35

Requester George Fraustfe (K. Drake) Organization/Div. LDWP / ALTA ENVIRON.
Address____ Tel.____ Fax____

Analyst:____ Date____
Approved:____ Date____

RECD BY: ENVL CHEM LAB

Priority
- 2-4 Hrs
- 1Day
- 2 Wks
- 4Wks
- Specify 1 week

BR YC JY BT DS

	Printed Name	Signature	Time	Date
Sampled by:	KRISTYN DRAKE (ALTA ENVIRONMENTAL)	[signature]	1300	5/28/13
Relinquished by:	K. DRAKE	[signature]	1330	5/28/13
Received by	T NGUYEN	[signature]	1335	5/28/13

Chem Lab COC Form
Revision 08/01/02

COC13-1321

LK RG KH DW

200001

Environmental Laboratory
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Department of Water and Power
City of Los Angeles
Chain of Custody Record

COC #: 13-1321 Page 2 of 4

Report C#_____ JC#_____ WO#_____
Refrig#._____ Shelf_____ Bin#._____
Initial of Field Personnel: No. of Field Test:

Sample Location: Tyrone Property

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1 B1-2' LN 06221	5/28/13	0912	ARCHIVE	5% ICE	3	SLEEVE		SOIL	Lead (6010B)		
2 ↓ -3' 06222		0914			↓	↓	↓		(ARCHIVE)		
3 B3-1' 06223		0920			↓	↓	↓		↓		
4 ↓ -2' 06224		0922	ARCHIVE		3	SLEEVE			Pb-Lead (6010B)		
5 ↓ -3' 06225		0924			↓	↓	↓		(ARCHIVE)		
6 B2-1' 06226		0930			↓	↓	↓		↓		
7 ↓ -2' 06227		0932	ARCHIVE		↓	↓	↓		(ARCHIVE)		
8 ↓ -3' 06228		0934			↓	↓	↓		↓		
9 B26-1' 06229		0940			7	ENCORE/			TTLC Metals/TPHd/VOCs/SVOCs/PCBs		
10 ↓ -2' 06230		0942	ARCHIVE		↓	SLEEVE			(ARCHIVE)		
11 ↓ -3' 06231		0944			↓	↓			↓		
12 B18-1' 06232		0950			3	SLEEVE			OCPs (8081A) + As (6010B)		
13 ↓ -2' 06233		0952	ARCHIVE		↓	↓	↓		(ARCHIVE)		
14 ↓ -3' 06234		0954			↓	↓	↓		↓		
15 B16-1' 06235		1000			3	SLEEVE			Pb (6010B)		
16 ↓ -2' 06236	↓	1002	ARCHIVE	↓	↓	↓	↓	↓	(ARCHIVE)		

Date & Time Stamp
LADWP
2013 MAY 28 PM 1:35
Chem Lab COC Form III
Revised: 08/01/02

>> COC# Label Here <<

RECD BY: CITY CHEM LAB

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

Requester George Fesler / K. Drake Organization/Div. LADWP / Alta Environ.
Address _____ Tel. _____ Fax _____

Analyst:_____ Date _____
Approved:_____ Date _____

	Printed Name	Signature	Time	Date
Sampled by:	K. Drake	Sampled by:	1300	5/28/13
Relinquished by:	K. Drake	Relinquished by:	1330	
Received by	T NGUYEN	Received by	1335	5/28/13

Environmental Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
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Department of Water and Power
City of Los Angeles

Chain of Custody Record

COC #: 13-1321

Report C# ______ JC# ______ WO# ______
Refrig#. ______ Shelf ______ Bin#. ______
Initial of Field Personnel: ______ No. of Field Test: ______

Sample Location: Tyrone Property

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1 B6-3' LN06237	5/28/13	1004		ICE	3	SLEEVE		SOIL	Pb (6010B)		
2 B8-1' 06238	↓	1010		ICE	3	SLEEVE		↓	Pb (6010B)		
3 -2' 06239		1012	ARCHIVE		↓	↓	↓		(ARCHIVE)		
4 -3 06240		1014							↓		
5 B29-1' 06241		1020			3				TPH diesel + oil / SVOCS		
6 -2' 06242		1022	ARCHIVE						(ARCHIVE)		
7 -3' 06243		1024			↓	↓	↓		Pb (6010B)		
8 B5-1' 06244		1030			3				~~(ARCHIVE)~~ (KD)		
9 -2' 06245		1032	ARCHIVE						(ARCHIVE) ↓		
10 -3' 06246		1034							↓		
11 B7-1' 06247		1040							Pb (6010B)		
12 -2' 06248		1042	ARCHIVE						(ARCHIVE)		
13 -3' 06249		1044							↓		
14 B20-1' 06250		1050							OCPs (8081A) + As (6010B)		
15 -2' 06251		1052	ARCHIVE						(ARCHIVE)		
16 -3' 06252	↓	1054		↓	↓	↓	↓	↓	↓		

Date & Time - Stamp
LADWP 2013 MAY 28 PM 1:35 RECD BY ENV. CHEM LAB

<< COC# Label Here >>

Chem Lab COC Form #1
Revision: 08/01/02

Requester: George Feastle (K. Drake) Organization/Div. LDWP / Alta Environ.
Address ______ Tel. ______ Fax ______

Analyst: ______ Date ______
Approved: ______ Date ______

Priority
2-4 Hrs
1Day
(2 Wks)
4Wks
Specify

Printed Name	Signature	Time	Date
Sampled by: K. Drake	Sampled by: [signature]	1300	5/28/13
Relinquished by: K. Drake	Relinquished by: [signature]	1330	5/28/13
Received by T NGUYEN	Received by [signature]	1335	5/28/13

Environme l Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
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Department of Water and Po..er
City of Los Angeles
Chain of Custody Record

COC #: 13-1321 Page 1 of 1

Report C#_____ JC#_____ WO#_____
Refrig#. R154 Shelf _____ Bin#._____
Initial of Field Personnel: No. of Field Test:

Sample Location: Tyrone Property

	Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1	B9-1' LN06253	5/28/13	1100		ICE	3	[illegible]	[illegible]	SOIL	PB (6010B)		
2	-2' 06254		1102	ARCHIVE						(ARCHIVE)		
3	-3' 06255		1104							~~ARCHIVE~~ ~~HOLD~~		
4	B10-1 06256		1110									
5	-2' 06257		1112	ARCHIVE						ARCHIVE		
6	-3 06258		1114									
7	B30-1' 06259		1130							TPH diesel/oil + SVOCs		
8	-2' 06260		1132	ARCHIVE						(ARCHIVE)		
9	-3' 06261		1134									
10	B11-1' 06262		1210							PB(6010B)		
11	-2' 06263		1212	ARCHIVE						(ARCHIVE)		
12	-3 06264		1214									
13	~~B12-1 LN~~											
14	~~-2~~ ~~-3~~	5/29/13										
15	B17-1											
16	-2 -3											

100005

Date & Time Stamp
LADWP 2013 MAY 28 PM 1:35 RECD BY: ENV. CHEM LAB

<< COC# Label Here >>

Chem Lab COC Form 8 Revision 08/01/02

Requester George Feaustle/K. Drake Organization/Div. LADWP/AMEC Environ.
Address _____ Tel. _____ Fax _____

Analyst: _____ Date _____
Approved: _____ Date _____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

	Printed Name	Signature	Time	Date
Sampled by:	K. Drake	[signature]	1300	5/28/13
Relinquished by:	K. Drake	[signature]	1330	5/28/13
Received by	T NGUYEN	[signature]	1335	5/28/13

ATTACHMENT #1

VOLATILE ORGANIC COMPOUNDS (VOC)

EPA METHOD 8260 B

ENVIRONMENTAL LABORATORY DATA REPORT

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

COC 13-1321
COC 13-1326

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06217	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-1
LN06219	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-3
LN06229	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-1
LN06231	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-3
LN06335	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-1
LN06337	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-3
LN06341	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-1

Compounds	MDL ug/kg	PQL ug/kg	LN06217 Amount ug/kg	LN06219 Amount ug/kg	LN06229 Amount ug/kg	LN06231 Amount ug/kg	LN06335 Amount ug/kg	LN06337 Amount ug/kg	LN06341 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06217	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-1
LN06219	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-3
LN06229	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-1
LN06231	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-3
LN06335	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-1
LN06337	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-3
LN06341	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-1

Compounds	MDL ug/kg	PQL ug/kg	LN06217 Amount ug/kg	LN06219 Amount ug/kg	LN06229 Amount ug/kg	LN06231 Amount ug/kg	LN06335 Amount ug/kg	LN06337 Amount ug/kg	LN06341 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	104.0%	103.7%	102.7%	103.3%	102.3%	103.3%	102.7%
SURR: Dibromofluoromethane	80 - 120	97.0%	96.0%	95.0%	96.3%	95.3%	95.3%	95.3%
SURR: Toluene-d8	81 - 117	93.7%	92.3%	90.0%	92.3%	92.3%	92.3%	92.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT

Report of GC/MS Analysis for Purgeable Volatile Organics

EPA SW-846 Method 8260

COC 13-1321
COC 13-1326

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06343	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-3

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN06343 Amount (ug/kg)
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
2-Butanone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
n-Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane (EDB)	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd
Hexachlorobutadiene	44	220.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06343	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-3

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN06343 Amount (ug/kg)
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Methyl iodide (iodomethane)	20	100.0	nd
4-Methyl-2-pentanone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene (Phenylethylene)	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene (PCE)	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene (TCE)	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates (30 ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	103.7%
SURR: Dibromofluoromethane	80 - 120	95.0%
SURR: Toluene-d8	81 - 117	92.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

200004

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/28/2013	5/28/2013	6/3/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/28/2013	5/28/2013	6/3/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	102.0%
SURR: Dibromofluoromethane	80 - 120	96.7%
SURR: Toluene-d8	81 - 117	92.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

200086

Project No: 7600 TYRONE

(RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 6/3/13 ANALYTICAL METHOD: USEPA 8260

BATCH #: LN06217 LN LN06217 LN06219 LN06229 LN06231 LN06335 LN06337 LN06341 LN06343

LAB SAMPLE I.D.: LN06217 UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	25.3	84.3	30.0	25.9	86.3	2.3 %	59-172	22%
Benzene	ND	30.0	29.9	99.7	30.0	30.5	102	2.3 %	66-142	21%
Trichloroethylene	ND	30.0	30.8	103	30.0	31.3	104	0.97 %	62-137	24%
Toluene	ND	30.0	30.6	102	30.0	31.5	105	2.9 %	59-139	21%
Chlorobenzene	ND	30.0	35.7	119	30.0	36.6	122	2.5 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 6/3/13 ANALYTICAL METHOD: USEPA 8260

SUPPLY SOURCE: LAB LCS I.D.: Q8087

LOT NUMBER: UNIT: ug/kg

DATE OF SOURCE:

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	29.9	30	99.7	70 - 130
1,2-Dichloroethane	32.1	30	107.0	70 - 130
1,4-Dichlorobenzene	31.3	30	104.3	70 - 130
Benzene	28.9	30	96.3	70 - 130
Bromoform	33	30	110.0	70 - 130
Carbon Tetrachloride	27	30	90.0	70 - 130
Tetrachloroethylene	28.2	30	94.0	70 - 130
Trichloroethylene	27.2	30	90.7	70 - 130

Analyst: B. Tiu

Reviewed by: R. Gentallen

200007

ATTACHMENT #2

METALS/MERCURY

EPA METHOD 6010B/7471

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06205	5/28/13	5/28/13	5/31/13	7600 TYRONE, B21-1
LN06207	5/28/13	5/28/13	6/3/13	7600 TYRONE, B21-3
LN06214	5/28/13	5/28/13	6/3/13	7600 TYRONE, B22-1
LN06216	5/28/13	5/28/13	6/3/13	7600 TYRONE, B22-3
LN06217	5/28/13	5/28/13	6/4/13	7600 TYRONE, B25-1
LN06219	5/28/13	5/28/13	6/4/13	7600 TYRONE, B25-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06205 mg/kg	LN06207 mg/kg	LN06214 mg/kg	LN06216 mg/kg	LN06217 mg/kg	LN06219 mg/kg
Antimony	500	15	6010	1.0	5.0	100	4.6J	3.7J	2.9J	3.6J	3.3J	4.2J
Arsenic	500	5	6010	2.6	13.0	100	ND	ND	ND	ND	ND	ND
Barium	10000	100	6010	3.7	18.5	100	263	254	170	201	194	281
Beryllium	75	0.75	6010	0.7	3.5	100	ND	ND	ND	ND	ND	ND
Cadmium	100	1	6010	0.6	3.0	100	3.4	3.0J	2.6J	2.4J	2.42J	3.0J
Chromium (T)	500	5	6010	1.4	7.0	100	22	22.5	20	18	16.4	23
Cobalt	8000	80	6010	1.0	5.0	100	17	16	10	14	13.5	16
Copper	2500	25	6010	1.6	8.0	100	22	18	15	15	13.5	19
Lead	1000	5	6010	0.9	4.5	100	18	14	48	11	10.5	13
Molybdenum	3500	350	6010	0.3	1.5	100	ND	ND	ND	ND	ND	ND
Nickel	2000	20	6010	0.6	3.0	100	22	24	16	18	16.6	24
Selenium	100	1	6010	1.6	8.0	100	ND	ND	ND	ND	ND	ND
Silver	500	5	6010	1.5	7.5	100	ND	ND	7.5J	ND	ND	ND
Thallium	700	7	6010	1.5	7.5	100	ND	ND	ND	ND	ND	ND
Vanadium	2400	24	6010	1.8	9.00	100	42	34	26	28	28	37
Zinc	5000	250	6010	1.9	9.50	100	77	61	191	48	48	60
Mercury	20	0.2	7471	0.0200	0.100	100	0.024	0.015	0.042	0.013	0.009	0.013

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst : YC

COC 13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06229	5/28/13	5/28/13	6/5/13	7600 TYRONE, B26-1
LN06231	5/28/13	5/28/13	6/5/13	7600 TYRONE, B26-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06229 mg/kg	LN06231 mg/kg				
Antimony	500	15	6010	1.0	5.0	100	1.3J	3.1J				
Arsenic	500	5	6010	2.6	13.0	100	ND	ND				
Barium	10000	100	6010	3.7	18.5	100	61	195				
Beryllium	75	0.75	6010	0.7	3.5	100	ND	ND				
Cadmium	100	1	6010	0.6	3.0	100	1.1J	2.9J				
Chromium (T)	500	5	6010	1.4	7.0	100	7.8	18				
Cobalt	8000	80	6010	1.0	5.0	100	5.5	15				
Copper	2500	25	6010	1.6	8.0	100	11.6	13				
Lead	1000	5	6010	0.9	4.5	100	6.0	11				
Molybdenum	3500	350	6010	0.3	1.5	100	ND	ND				
Nickel	2000	20	6010	0.6	3.0	100	9.3	20				
Selenium	100	1	6010	1.6	8.0	100	ND	ND				
Silver	500	5	6010	1.5	7.5	100	ND	ND				
Thallium	700	7	6010	1.5	7.5	100	ND	ND				
Vanadium	2400	24	6010	1.8	9.00	100	18	31				
Zinc	5000	250	6010	1.9	9.50	100	26	56				
Mercury	20	0.2	7471	0.0200	0.100	100	0.021	0.012				

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst : YC

300002

ENVIRONMENTAL LABORATORY DATA REPORT

13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED			SAMPLE DESCRIPTION						
LN06208	5/28/13	5/28/13	5/30/13			7600 TYRONE, B19-1						
LN06210	5/28/13	5/28/13	5/30/13			7600 TYRONE, B19-3						
LN06232	5/28/13	5/28/13	6/4/13			7600 TYRONE, B18-1						
LN06234	5/28/13	5/28/13	6/4/13			7600 TYRONE, B18-3						
LN06250	5/28/13	5/28/13	6/4/13			7600 TYRONE, B20-1						
LN06252	5/28/13	5/28/13	6/4/13			7600 TYRONE, B20-3						
	LIMIT	LIMIT										
	TTLC	STLC					LN06208	LN06210	LN06232	LN06234	LN06250	LN06252
METAL	(mg/kg)	(mg/l)	METHOD	MDL	RL	D. F.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	500	5	6010	2.6	13.0	100	ND	ND	ND	ND	ND	ND

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst : YC

ENVIRONMENTAL LABORATORY DATA REPORT

13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

Method : 6010

Matrix: Soil

Project: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06211	5/28/13	5/28/13	5/30/13	7600 TYRONE B1-1
LN06213	5/28/13	5/28/13	5/30/13	7600 TYRONE B1-3
LN06220	5/28/13	5/28/13	5/30/13	7600 TYRONE B4-1
LN06222	5/28/13	5/28/13	5/30/13	7600 TYRONE B4-3
LN06223	5/28/13	5/28/13	5/30/13	7600 TYRONE B3-1
LN06225	5/28/13	5/28/13	5/30/13	7600 TYRONE B3-3

	LIMIT	LIMIT										
	TTLC	STLC					LN06211	LN06213	LN06220	LN06222	LN06223	LN06225
METAL	(mg/kg)	(mg/l)	METHOD	MDL	RL	D. F.	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Lead	1000	5	6010	0.9	4.5	100	9.8	12.0	11.0	12.0	12.0	12.0

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06226	5/28/13	5/28/13	5/30/13	7600 TYRONE B2-1
LN06228	5/28/13	5/28/13	5/30/13	7600 TYRONE B2-3
LN06235	5/28/13	5/28/13	5/30/13	7600 TYRONE B6-1
LN06237	5/28/13	5/28/13	6/3/13	7600 TYRONE B6-3
LN06238	5/28/13	5/28/13	6/3/13	7600 TYRONE B8-1
LN06240	5/28/13	5/28/13	6/3/13	7600 TYRONE B8-3

	LIMIT	LIMIT										
	TTLC	STLC					LN06226	LN06228	LN06235	LN06237	LN06238	LN06240
METAL	(mg/kg)	(mg/l)	METHOD	MDL	RL	D. F.	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Lead	1000	5	6010	0.9	4.5	100	11.0	15.0	5.7	10.0	24.0	72.0

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: YC

ENVIRONMENTAL LABORATORY DATA REPORT

13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

Method : 6010

Matrix: Soil

Project: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06244	5/28/13	5/28/13	6/4/13	7600 TYRONE B5-1
LN06246	5/28/13	5/28/13	6/4/13	7600 TYRONE B5-3
LN06247	5/28/13	5/28/13	6/4/13	7600 TYRONE B7-1
LN06249	5/28/13	5/28/13	6/4/13	7600 TYRONE B7-3
LN06253	5/28/13	5/28/13	6/4/13	7600 TYRONE B9-1
LN06255	5/28/13	5/28/13	6/4/13	7600 TYRONE B9-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06244 mg/Kg	LN06246 mg/Kg	LN06247 mg/Kg	LN06249 mg/Kg	LN06253 mg/Kg	LN06255 mg/Kg
Lead	1000	5	6010	0.9	4.5	100	52.0	11.0	50.0	15.0	22.0	14.0

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06256	5/28/13	5/28/13	5/30/13	7600 TYRONE B10-1
LN06258	5/28/13	5/28/13	5/30/13	7600 TYRONE B10-3
LN06262	5/28/13	5/28/13	5/30/13	7600 TYRONE B11-1
LN06264	5/28/13	5/28/13	6/3/13	7600 TYRONE B11-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06256 mg/Kg	LN06258 mg/Kg	LN06262 mg/Kg	LN06264 mg/Kg
Lead	1000	5	6010	0.9	4.5	100	15.0	15.0	13.0	17.0

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: YC

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

LABORATORY LOG NO	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06205 Dup	05/28/13	5/28/13	5/31/13	7600 TYRONE, B21-1
LN06217 Dup	5/28/13	5/28/13	6/4/13	7600 TYRONE, B25-1

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06205 (mg/kg)	LN06217 (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Antimony	500	15	6010	1.0	5.0	1	4.5J	3.6J				
Arsenic	500	5	6010	2.6	13.0	1	ND	ND				
Barium	10000	100	6010	3.7	18.5	1	228	213				
Beryllium	75	0.75	6010	0.7	3.5	1	ND	ND				
Cadmium	100	1	6010	0.6	3.0	1	3.0J	2.4J				
Chromium (T)	2500	5	6010	1.4	7.0	1	20	17				
Cobalt	8000	80	6010	1.0	5.0	1	16	14				
Copper	2500	25	6010	1.6	8.0	1	20	15				
Lead	1000	5	6010	0.9	4.5	1	20	11.1				
Molybdenum	3500	350	6010	0.3	1.5	1	ND	ND				
Nickel	2000	20	6010	0.6	3.0	1	21	17.5				
Selenium	100	1	6010	1.6	8.0	1	ND	ND				
Silver	500	5	6010	1.5	7.5	1	ND	ND				
Thallium	700	7	6010	1.5	7.5	1	ND	ND				
Vanadium	2400	24	6010	1.8	9.0	1	38	26				
Zinc	5000	250	6010	1.9	9.5	1	79	49				

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
R.L. - Report Limit
D. F. - Dilution Factor

** - exceed TTLC limit
* - exceed 10x STLC limit
J - concentration above MDL and below RL

Analyst: YC

PROJECT: 7600 TYRONE

COC 13-1321

QA/QC Report

I. Blank Spike (BS) / Blank Spike Duplicate (BSD)

DATE ANALYZED: 05/31/13 ANALYTICAL METHOD USEPA 6010/7000

BATCH #: STTLCS-7732 LN06205 LN06207 LN06214 LN06216

LAB SAMPLE I.D.: BLANK SOIL UNIT: (Circle One) (mg/kg) mg/L

METAL	SAMPLE RESULT	SPIKE CONC	BS	%BS	DUP. SPIKE CONC	BSD	%BSD	RPD	BS/BSD % REC. LIMIT	RPD LIMIT
Antimony	1.0	200	149	74.0	200	148	73.5	0.7%	14 - 89	< 30
Arsenic	ND	200	194	97.0	200	196	98.0	1.0%	70 - 130	< 30
Barium	---	---	---	---	---	---	---	---	---	---
Beryllium	ND	200	187	93.5	200	188	94.0	0.5%	70 - 130	< 30
Cadmium	ND	200	180	90.0	200	183	91.5	1.7%	70 - 130	< 30
Chromium (T)	ND	200	190	95.0	200	191	95.5	0.5%	70 - 130	< 30
Cobalt	ND	200	194	97.0	200	197	98.5	1.5%	70 - 130	< 30
Copper	ND	200	193	96.5	200	193	96.5	0.0%	70 - 130	< 30
Lead	5.0	200	189	92.0	200	189	92.0	0.0%	70 - 130	< 30
Molybdenum	0.5	200	194	96.8	200	195	97.3	0.5%	70 - 130	< 30
Nickel	1.6	200	193	95.7	200	195	96.7	1.0%	70 - 130	< 30
Selenium	ND	200	180	90.0	200	181	90.5	0.6%	70 - 130	< 30
Silver	---	---	---	---	---	---	---	---	---	---
Thallium	ND	200	105	52.5	200	104	52.0	1.0%	---	---
Vanadium	8.5	200	202	96.8	200	204	97.8	1.0%	70 - 130	< 30
Zinc	4.0	200	175	85.5	200	177	86.5	1.2%	70 - 130	< 30

BS = Blank Spike BSD = Blank Spike Duplicate RPD = Relative Percent Difference
%BS = Percent Recovery of Blank Spike %BSD = Percent Recovery of Blank Spike Duplicate

Analyst: YC

PROJECT: 7600 TYRONE

COC 13-1321

QA/QC Report

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE ANALYZED: 05/30/13 ANALYTICAL METHOD: USEPA 6010/7000

BATCH #: STTLCS-77 (LN06205 LN06207 LN06214 LN06216)

LAB SAMPLE I.D.: LN06205 UNIT: (Circle One) (mg/kg)

METAL	SAMPLE RESULT	SPIKE CONC	MS	%MS	(DUP) SPIKE CONC	MSD	%MSD	RPD	MS/MSD % REC. LIMIT	RPD LIMIT
Antimony	4.6	200	44	19.7	200	44	19.7	0.0%	14 - 89	< 30
Arsenic	ND	200	180	90.0	200	184	92.0	2.2%	70 - 130	< 30
Barium	---	200	---	---	200	---	---	---	70 - 130	< 30
Beryllium	ND	200	184	92.0	200	185	92.5	0.5%	70 - 130	< 30
Cadmium	3.4	200	165	80.8	200	167	81.8	1.2%	70 - 130	< 30
Chromium (T)	22	200	203	90.5	200	206	92.0	1.6%	70 - 130	< 30
Cobalt	17	200	186	84.5	200	189	86.0	1.8%	70 - 130	< 30
Copper	22	200	205	91.5	200	207	92.5	1.1%	70 - 130	< 30
Lead	18	200	178	80.0	200	180	81.0	1.2%	70 - 130	< 30
Molybdenum	ND	200	169	84.5	200	171	85.5	1.2%	70 - 130	< 30
Nickel	22	200	201	89.5	200	205	91.5	2.2%	70 - 130	< 30
Selenium	ND	200	171	85.5	200	175	87.5	2.3%	70 - 130	< 30
Silver	---	200	---	---	200	---	---	---	70 - 130	< 30
Thallium	---	200	---	---	200	---	---	---	70 - 130	< 30
Vanadium	42	200	231	94.5	200	233	95.5	1.1%	70 - 130	< 30
Zinc	77	200	248	85.5	200	243	83.0	3.0%	70 - 130	< 30
Mercury	0.024	0.250	0.298	110	0.250	0.293	108	1.5%	70 - 130	< 30

MS = Matrix Spike MSD = Matrix Spike Duplicate RPD = Relative Percent Difference
%MS = Percent Recovery of Matrix Spike %MSD = Percent Recovery of Matrix Spike Duplicate

Analyst: YC

PROJECT: 7600 TYRONE

COC 13-1321

II. Calibration and Laboratory Quality Control Check Sample (LCS)

DATE ANALYZED: 05/31/13

SUPPLY SOURCE: VHG

LOT NUMBER: 201-0040

ANALYTICAL: USEPA 6010/7000

LAB LCS I.D.: Q8732

UNIT: (Circle One) (mg/kg) mg/L

METAL	LCS RESULTS mg/kg	TRUE VALUE mg/kg	% Recovery	Acceptable Range % Recovery
Antimony	64	80.0	80.0	48 - 84
Arsenic	405	400	101	70 - 130
Barium	394	400	99	70 - 130
Beryllium	10	10.0	100	70 - 130
Cadmium	10.1	10.0	101	70 - 130
Chromium (T)	79	80.0	99	70 - 130
Cobalt	41	40.0	103	70 - 130
Copper	81	80.0	101	70 - 130
Lead	82	80.0	103	70 - 130
Molybdenum	---	---	---	---
Nickel	81	80.0	101	70 - 130
Selenium	186	200	93	70 - 130
Silver	10	10.0	100	70 - 130
Thallium	39	80.0	49	70 - 130
Vanadium	89	80.0	111	70 - 130
Zinc	180	200	90	70 - 130

Analyst: YC

YC 6/7/13

300009

ATTACHMENT #3

TOTAL EXTRACTABLE PETROLEUM
HYDROCARBONS (TEPH)
MOTOR OIL (MO)
DIESEL RANGE ORGANIC (DRO)

EPA METHOD 8015M

COC No. 13-1321

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST ID	RUN BATCH
LN06205	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B21-1	GC Agilent	053113
LN06207	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B21-3	GC Agilent	053113
LN06214	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B22-1	GC Agilent	053113
LN06216	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B22-3	GC Agilent	053113
LN06217	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B25-1	GC Agilent	053113
LN06219	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B25-3	GC Agilent	053113
LN06229	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B26-1	GC Agilent	053113

	MDL / PQL mg/kg	MB mg/kg	LN06205 mg/kg	LN06207 mg/kg	LN06214 mg/kg	LN06216 mg/kg	LN06217 mg/kg	LN06219 mg/kg	LN06229 mg/kg
Dilution Factor		1	1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	12.6 J	ND	12.6 J	ND	12.5 J	ND	4.4 J
DRO (C10 - C28)	29 / 145	ND	ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	90.5%	87.5%	79.5%	77.5%	97.5%	99.5%	79.5%	104%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1321

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN06231	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B26-3	GC Agilent	060209
LN06241	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B29-1	GC Agilent	060209
LN06243	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B29-3	GC Agilent	060209
LN06259	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B30-1	GC Agilent	060209
LN06261	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B30-3	GC Agilent	060209

	MDL / PQL mg/kg		LN06231 mg/kg	LN06241 mg/kg	LN06243 mg/kg	LN06259 mg/kg	LN06261 mg/kg		
Dilution Factor			1	1	1	1	1		
TEPH (C9 - C36)	4 / 20		ND	12.6 J	4.1 J	12.7 J	12.4 J		
DRO (C10 - C28)	29 / 145		ND	ND	ND	ND	ND		
MOTOR OIL	35 / 175		ND	ND	ND	ND	ND		
Quality Control Data									
Surrogate/Internal Std.	% ACP		% RC	% RC	% RC	% RC	% RC		
1-Chlorooctadecane	(60 - 140)		102%	71.5%	110%	105%	115%		

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1321

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST ID	RUN BATCH
LN06216 DUP	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B22-3	GC Agilent	053113

	MDL / PQL mg/kg		LN06216 DUP mg/kg
Dilution Factor			1
TEPH (C9 - C36)	4 / 20		ND
DRO (C10 - C28)	29 / 145		ND
MOTOR OIL	35 / 175		ND
Quality Control Data			
Surrogate/Internal Std.	% ACP		% RC
1-Chlorooctadecane	(60 - 140)		88.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1321

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL
Project: 7600 TYRONE

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8245 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/kg

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		053113	5/31/2013	280	209	74.6	70 - 130
DRO		053113	5/31/2013	500	379	75.8	70 - 130
MO		053113	5/31/2013	500	436	87.2	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan
RG 6/4/13

400004

ATTACHMENT #4

GASOLINE RANGE ORGANICS (GRO)

EPA METHOD 8015B

COC No. 13-1321

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR ID	RUN LOG/BATCH
LN06205	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B21-1	AG gas	20130530
LN06207	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B21-3	AG gas	20130530
LN06214	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B22-1	AG gas	20130530
LN06216	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B22-3	AG gas	20130530
LN06217	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B25-1	AG gas	20130530
LN06219	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B25-3	AG gas	20130530
LN06229	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B26-1	AG gas	20130530

	MDL / PQL mg/kg	MB mg/kg	LN06205 mg/kg	LN06207 mg/kg	LN06214 mg/kg	LN06216 mg/kg	LN06217 mg/kg	LN06219 mg/kg	LN06229 mg/kg
Dilution Factor	1	1	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	109%	107%	104%	108%	108%	108%	107%	108%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

COC No. 13-1321

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR ID	RUN LOG/BATCH
LN06231	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B26-3	AG gas	20130530
LN06241	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B29-1	AG gas	20130530
LN06243	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B29-3	AG gas	20130530
LN06259	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B30-1	AG gas	20130530
LN06261	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B30-3	AG gas	20130530

	MDL / PQL mg/kg	MB mg/kg	LN06231 mg/kg	LN06241 mg/kg	LN06243 mg/kg	LN06259 mg/kg	LN06261 mg/kg		
Dilution Factor	1	1	1	1	1	1	1		
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND		
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC		
	(70 - 130)	109%	108%	107%	107%	108%	107%		

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

ENVIRONMENTAL LABORATORY

QA/QC REPORT
GRO (Gasoline Range Organics)

Sample Matrix: SOIL
Project: 7600 TYRONE

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)
Reporting Unit: mg/kg

SAMPLE	BATCH	SAMPLE	SPIKE						MS/MSD	RPD
LOG NO.	QC	CONC	CONC	MS	% MS	MSD	% MSD	RPD	% ACP	ACP
LN06205	20130530	ND	22.0	22.4	102%	22.9	104%	2.2%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)
LCS Log No. Q8637

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130530	5/29/2013	22.0	20.9	95.0	70 - 130

Analyzed by *B. Estrada*
Reviewed by *R. Gentallan*
RG 6/4/13

ATTACHMENT #5

POLYCHLORINATED BIPHENYLS (PCBs)

EPA Method 8082

ENVIRONMENTAL LABORATORY DATA REPORT

ANALYTICAL RESULT FOR PCBs by EPA600/SR-94/112/8082
(Polychlorinated Biphenyls)
Sample Matrix: Soil (Low Level)

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06217	5/28/2013	5/28/2013	5/30/2013	5/31/2013	7600 TYRONE, B25-1
LN06219	5/28/2013	5/28/2013	5/30/2013	5/31/2013	7600 TYRONE, B25-3
LN06229	5/28/2013	5/28/2013	5/30/2013	5/31/2013	7600 TYRONE, B26-1
LN06231	5/28/2013	5/28/2013	5/30/2013	5/31/2013	7600 TYRONE, B26-3

PARAMETERS	MDL/PQL (mg/kg)	LN06217 (mg/kg)	LN06219 (mg/kg)	LN06229 (mg/kg)	LN06231 (mg/kg)
PCB - 1221	0.07/0.2	ND	ND	ND	ND
PCB - 1232	0.07/0.2	ND	ND	ND	ND
PCB - 1242	0.07/0.2	ND	ND	ND	ND
PCB - 1248	0.07/0.2	ND	ND	ND	ND
PCB - 1254	0.07/0.2	ND	ND	ND	ND
PCB - 1260	0.07/0.2	ND	ND	ND	ND
SURROGATE PARAMETERS	QC LIMIT %	% Recovery	% Recovery	% Recovery	% Recovery
DECACHLOROBIPHENYL	70 - 130	94	95	98	106

MDL - Method Detection Limit

ND - Not Detected; below method detection limit

Analyst: D. Wong

Reviewed by: 6/4/13

600001

Project Name : Tyrone Property, 7600 Tyrone Ave., Van Nuys, CA

QA/QC Report

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

ANALYTICAL METHOD: USEPA 600/SR-94/112
USEPA 8082

DATE ANALYZED: 06/04/13
BATCH #: 53013
LAB SAMPLE I.D.: LN06364

UNIT: mg/kg

PARAMETERS	SAMPLE RESULT	SPIKE CONC	MS	%MS	DUP SPIKE CONC	MSD	%MSD	RPD	MS/MSD %REC LIMIT	% RPD LIMIT
PCB-1242	0.0	25.0	20.8	83	25.0	20.3	81	2%	70 - 130	30
PCB-1260	0.0	25.0	NR	NR	25.0	NR	NR	NR	70 - 130	30

NR = Not reported dut to matrix interference.

MS - Matrix Spike *MSD - Matrix Spike Dupllicate* *RPD - Relative Percent Difference*
%MS - Percent Recovery of Matrix Spike *%MSD - Percent Recovery of Matrix Spike Duplicate*

Reviewed by: 6/4/13

Project Name : Tyrone Property, 7600 Tyrone Ave., Van Nuys, CA

II. Laboratory Control Check Sample (LCS)

DATE ANALYZED: 06/04/13 ANALYTICAL METHOD: USEPA 600/SR-94/112

BATCH No. 053013 UNIT: mg/kg USEPA 8082

PARAMETERS		TRUE CONC	LCS RESULT	% RC	LCSD RESULT	% RC	ACCEPTANCE LIMITS (%)
PCB - 1242		25.0	19.6	78	NA	NA	80 - 120
PCB - 1260		25.0	21.9	88	NA	NA	80 - 120

Note: Low LCS recovery for 1242 (78%). Although LCS is 2% below acceptance limit, it should have no significant effect on the quality of this batch of analyses.

%RC - Percent Recovery
NA - Not Analyzed
Batch - ten samples per batch

Reviewed by: 6/4/13

ATTACHMENT #6

PESTICIDES

EPA METHOD 8081

ATTACHMENT #7

Semi Volatile Organic Compounds
(SVOCs)

EPA METHOD 8270C

CERTIFICATE OF ANALYSIS

Client:	LADWP - Environmental Laboratory 1630 North Main Street, Bldg. 7, Rm 311 Los Angeles, CA 90012	**Report Date:**	06/05/13 16:04
		Received Date:	05/30/13 09:50
		Turn Around:	5 workdays
Attention:	Kevin Han	**Work Order #:**	3E30014
Phone:	213-367-7267		49067-3, COC #13-1321,26
Fax:	(213) 367-7285	**Client Project:**	7600 Tyrone Ave,COC #13-1321,26, WO#

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Kevin Han ;

Enclosed are the results of analyses for samples received 05/30/13 09:50 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Kim G Tu
Project Manager

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
LN06205	Client		3E30014-01	Solid	05/28/13 08:08
LN06207	Client		3E30014-02	Solid	05/28/13 08:04
LN06214	Client		3E30014-03	Solid	05/28/13 08:50
LN06216	Client		3E30014-04	Solid	05/28/13 08:54
LN06217	Client		3E30014-05	Solid	05/28/13 09:00
LN06219	Client		3E30014-06	Solid	05/28/13 09:04
LN06229	Client		3E30014-07	Solid	05/28/13 09:40
LN06231	Client		3E30014-08	Solid	05/28/13 09:44
LN06241	Client		3E30014-09	Solid	05/28/13 10:20
LN06243	Client		3E30014-10	Solid	05/28/13 10:24
LN06259	Client		3E30014-11	Solid	05/28/13 11:30
LN06261	Client		3E30014-12	Solid	05/28/13 11:34
LN06329	Client		3E30014-13	Solid	05/29/13 08:30
LN06331	Client		3E30014-14	Solid	05/29/13 08:34
LN06335	Client		3E30014-15	Solid	05/29/13 09:00
LN06337	Client		3E30014-16	Solid	05/29/13 09:04
LN06338	Client		3E30014-17	Solid	05/29/13 09:08
LN06340	Client		3E30014-18	Solid	05/29/13 09:10
LN06341	Client		3E30014-19	Solid	05/29/13 09:30
LN06343	Client		3E30014-20	Solid	05/29/13 09:34

ANALYSES

Semivolatile Organic Compounds by GC/MS

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-01 LN06205

Sampled: 05/28/13 08:08 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 16:04 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.085	0.47	0.47	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.47	0.47	mg/kg	1	
1,3-Dichlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.47	0.47	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.47	0.47	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2,4-Dinitrophenol	ND	3.6	23	23	mg/kg	1	
2,4-Dinitrotoluene	ND	0.094	0.47	0.47	mg/kg	1	
2,6-Dinitrotoluene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chloronaphthalene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chlorophenol	ND	0.094	0.47	0.47	mg/kg	1	
2-Methylnaphthalene	ND	0.085	0.47	0.47	mg/kg	1	
2-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
2-Nitrophenol	ND	0.21	0.47	0.47	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.3	2.3	mg/kg	1	
3-Nitroaniline	ND	0.14	0.47	0.47	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.7	4.7	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.066	0.47	0.47	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.47	0.47	mg/kg	1	
4-Chloroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.085	0.47	0.47	mg/kg	1	
4-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Nitrophenol	ND	0.14	0.47	0.47	mg/kg	1	
Acenaphthene	ND	0.085	0.47	0.47	mg/kg	1	
Acenaphthylene	ND	0.085	0.47	0.47	mg/kg	1	
Aniline	ND	0.22	0.47	0.47	mg/kg	1	
Anthracene	ND	0.075	0.47	0.47	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.094	0.47	0.47	mg/kg	1	
Benzidine	ND	1.2	4.7	4.7	mg/kg	1	
Benzo (a) anthracene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (a) pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Benzo (b) fluoranthene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (g,h,i) perylene	**0.10**	0.056	0.94	0.94	mg/kg	1	J
Benzo (k) fluoranthene	ND	0.12	0.47	0.47	mg/kg	1	
Benzoic acid	ND	1.8	23	23	mg/kg	1	
Benzyl alcohol	ND	0.13	0.47	0.47	mg/kg	1	

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-01 **LN06205**

Sampled: 05/28/13 08:08 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 16:04 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.085	0.47	0.47	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.47	0.47	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.47	0.47	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.47	0.47	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.47	0.47	mg/kg	1	
Carbazole	ND	0.085	0.47	0.47	mg/kg	1	
Chrysene	ND	0.085	0.47	0.47	mg/kg	1	
Dibenzo (a,h) anthracene	**0.099**	0.047	0.94	0.94	mg/kg	1	J
Dibenzofuran	ND	0.085	0.47	0.47	mg/kg	1	
Diethyl phthalate	ND	0.056	0.47	0.47	mg/kg	1	
Dimethyl phthalate	ND	0.83	2.3	2.3	mg/kg	1	
Di-n-butyl phthalate	ND	0.075	0.47	0.47	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.47	0.47	mg/kg	1	
Fluoranthene	ND	0.10	0.47	0.47	mg/kg	1	
Fluorene	ND	0.066	0.47	0.47	mg/kg	1	
Hexachlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
Hexachlorobutadiene	ND	0.085	0.47	0.47	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.47	0.47	mg/kg	1	
Hexachloroethane	ND	0.066	0.47	0.47	mg/kg	1	
Indeno (1,2,3-cd) pyrene	**0.16**	0.085	0.94	0.94	mg/kg	1	J
Isophorone	ND	0.094	0.47	0.47	mg/kg	1	
Naphthalene	ND	0.10	0.47	0.47	mg/kg	1	
Nitrobenzene	ND	0.10	0.47	0.47	mg/kg	1	
N-Nitrosodimethylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.066	0.47	0.47	mg/kg	1	
Pentachlorophenol	**0.39**	0.15	0.47	0.47	mg/kg	1	J
Phenanthrene	ND	0.075	0.47	0.47	mg/kg	1	
Phenol	ND	0.14	0.47	0.47	mg/kg	1	
Pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Pyridine	ND	0.047	0.94	0.94	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*70 %*	Conc:*33.0*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*75 %*	Conc:*17.7*		*39-100*	%		
Surr: 2-Fluorophenol	*93 %*	Conc:*43.9*		*26-115*	%		
Surr: Nitrobenzene-d5	*79 %*	Conc:*18.5*		*49-105*	%		
Surr: Phenol-d5	*87 %*	Conc:*40.7*		*36-105*	%		
Surr: Terphenyl-d14	*96 %*	Conc:*22.5*		*36-106*	%		

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-02 LN06207

Sampled: 05/28/13 08:04 Sampled By: Client Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 16:34 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.085	0.47	0.47	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.47	0.47	mg/kg	1	
1,3-Dichlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.47	0.47	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.47	0.47	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2,4-Dinitrophenol	ND	3.6	24	24	mg/kg	1	
2,4-Dinitrotoluene	ND	0.094	0.47	0.47	mg/kg	1	
2,6-Dinitrotoluene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chloronaphthalene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chlorophenol	ND	0.094	0.47	0.47	mg/kg	1	
2-Methylnaphthalene	ND	0.085	0.47	0.47	mg/kg	1	
2-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
2-Nitrophenol	ND	0.21	0.47	0.47	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.4	2.4	mg/kg	1	
3-Nitroaniline	ND	0.14	0.47	0.47	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.7	4.7	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.066	0.47	0.47	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.47	0.47	mg/kg	1	
4-Chloroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.085	0.47	0.47	mg/kg	1	
4-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Nitrophenol	ND	0.14	0.47	0.47	mg/kg	1	
Acenaphthene	ND	0.085	0.47	0.47	mg/kg	1	
Acenaphthylene	ND	0.085	0.47	0.47	mg/kg	1	
Aniline	ND	0.22	0.47	0.47	mg/kg	1	
Anthracene	ND	0.075	0.47	0.47	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.094	0.47	0.47	mg/kg	1	
Benzidine	ND	1.2	4.7	4.7	mg/kg	1	
Benzo (a) anthracene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (a) pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Benzo (b) fluoranthene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.057	0.94	0.94	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.47	0.47	mg/kg	1	
Benzoic acid	ND	1.8	24	24	mg/kg	1	
Benzyl alcohol	ND	0.13	0.47	0.47	mg/kg	1	

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-02 LN06207

Sampled: 05/28/13 08:04 Sampled By: Client Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 16:34 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.085	0.47	0.47	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.47	0.47	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.47	0.47	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.47	0.47	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.47	0.47	mg/kg	1	
Carbazole	ND	0.085	0.47	0.47	mg/kg	1	
Chrysene	ND	0.085	0.47	0.47	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.047	0.94	0.94	mg/kg	1	
Dibenzofuran	ND	0.085	0.47	0.47	mg/kg	1	
Diethyl phthalate	ND	0.057	0.47	0.47	mg/kg	1	
Dimethyl phthalate	ND	0.83	2.4	2.4	mg/kg	1	
Di-n-butyl phthalate	ND	0.075	0.47	0.47	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.47	0.47	mg/kg	1	
Fluoranthene	ND	0.10	0.47	0.47	mg/kg	1	
Fluorene	ND	0.066	0.47	0.47	mg/kg	1	
Hexachlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
Hexachlorobutadiene	ND	0.085	0.47	0.47	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.47	0.47	mg/kg	1	
Hexachloroethane	ND	0.066	0.47	0.47	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.085	0.94	0.94	mg/kg	1	
Isophorone	ND	0.094	0.47	0.47	mg/kg	1	
Naphthalene	ND	0.10	0.47	0.47	mg/kg	1	
Nitrobenzene	ND	0.10	0.47	0.47	mg/kg	1	
N-Nitrosodimethylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.066	0.47	0.47	mg/kg	1	
Pentachlorophenol	ND	0.15	0.47	0.47	mg/kg	1	
Phenanthrene	ND	0.075	0.47	0.47	mg/kg	1	
Phenol	ND	0.14	0.47	0.47	mg/kg	1	
Pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Pyridine	ND	0.047	0.94	0.94	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*58 %*	Conc:27.2		*40-97*	%		
Surr: 2-Fluorobiphenyl	*64 %*	Conc:15.2		*39-100*	%		
Surr: 2-Fluorophenol	*73 %*	Conc:34.2		*26-115*	%		
Surr: Nitrobenzene-d5	*67 %*	Conc:15.8		*49-105*	%		
Surr: Phenol-d5	*72 %*	Conc:33.8		*36-105*	%		
Surr: Terphenyl-d14	*73 %*	Conc:17.3		*36-106*	%		

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800006

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-03 LN06214

Sampled: 05/28/13 08:50 | Sampled By: Client | Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 20:08 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.089	0.49	0.49	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.49	0.49	mg/kg	1	
1,3-Dichlorobenzene	ND	0.079	0.49	0.49	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.49	0.49	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.49	0.49	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.099	0.49	0.49	mg/kg	1	
2,6-Dinitrotoluene	ND	0.079	0.49	0.49	mg/kg	1	
2-Chloronaphthalene	ND	0.079	0.49	0.49	mg/kg	1	
2-Chlorophenol	ND	0.099	0.49	0.49	mg/kg	1	
2-Methylnaphthalene	ND	0.089	0.49	0.49	mg/kg	1	
2-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
2-Nitrophenol	ND	0.22	0.49	0.49	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.49	0.49	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.9	4.9	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.49	0.49	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.49	0.49	mg/kg	1	
4-Chloroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.089	0.49	0.49	mg/kg	1	
4-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Nitrophenol	ND	0.15	0.49	0.49	mg/kg	1	
Acenaphthene	ND	0.089	0.49	0.49	mg/kg	1	
Acenaphthylene	ND	0.089	0.49	0.49	mg/kg	1	
Aniline	ND	0.23	0.49	0.49	mg/kg	1	
Anthracene	ND	0.079	0.49	0.49	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.099	0.49	0.49	mg/kg	1	
Benzidine	ND	1.2	4.9	4.9	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (a) pyrene	ND	0.079	0.49	0.49	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.99	0.99	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.49	0.49	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.49	0.49	mg/kg	1	

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800007

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-03 **LN06214**

Sampled: 05/28/13 08:50
Sampled By: Client
Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 20:08 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.089	0.49	0.49	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.49	0.49	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.49	0.49	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.49	0.49	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.49	0.49	mg/kg	1	
Carbazole	ND	0.089	0.49	0.49	mg/kg	1	
Chrysene	ND	0.089	0.49	0.49	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.049	0.99	0.99	mg/kg	1	
Dibenzofuran	ND	0.089	0.49	0.49	mg/kg	1	
Diethyl phthalate	ND	0.059	0.49	0.49	mg/kg	1	
Dimethyl phthalate	ND	0.87	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.079	0.49	0.49	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.49	0.49	mg/kg	1	
Fluoranthene	ND	0.11	0.49	0.49	mg/kg	1	
Fluorene	ND	0.069	0.49	0.49	mg/kg	1	
Hexachlorobenzene	ND	0.079	0.49	0.49	mg/kg	1	
Hexachlorobutadiene	ND	0.089	0.49	0.49	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.49	0.49	mg/kg	1	
Hexachloroethane	ND	0.069	0.49	0.49	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.089	0.99	0.99	mg/kg	1	
Isophorone	ND	0.099	0.49	0.49	mg/kg	1	
Naphthalene	ND	0.11	0.49	0.49	mg/kg	1	
Nitrobenzene	ND	0.11	0.49	0.49	mg/kg	1	
N-Nitrosodimethylamine	ND	0.089	0.49	0.49	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.089	0.49	0.49	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.49	0.49	mg/kg	1	
Pentachlorophenol	ND	0.16	0.49	0.49	mg/kg	1	
Phenanthrene	ND	0.079	0.49	0.49	mg/kg	1	
Phenol	ND	0.15	0.49	0.49	mg/kg	1	
Pyrene	ND	0.079	0.49	0.49	mg/kg	1	
Pyridine	ND	0.049	0.99	0.99	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*62 %*	Conc:*30.4*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*69 %*	Conc:*17.1*		*39-100*	%		
Surr: 2-Fluorophenol	*79 %*	Conc:*38.9*		*26-115*	%		
Surr: Nitrobenzene-d5	*70 %*	Conc:*17.3*		*49-105*	%		
Surr: Phenol-d5	*76 %*	Conc:*37.5*		*36-105*	%		
Surr: Terphenyl-d14	*81 %*	Conc:*20.1*		*36-106*	%		

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800008

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-04 LN06216

Sampled: 05/28/13 08:54 Sampled By: Client Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 20:38 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.088	0.49	0.49	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.49	0.49	mg/kg	1	
1,3-Dichlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.49	0.49	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.49	0.49	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.098	0.49	0.49	mg/kg	1	
2,6-Dinitrotoluene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chloronaphthalene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chlorophenol	ND	0.098	0.49	0.49	mg/kg	1	
2-Methylnaphthalene	ND	0.088	0.49	0.49	mg/kg	1	
2-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
2-Nitrophenol	ND	0.22	0.49	0.49	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.49	0.49	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.9	4.9	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.059	0.49	0.49	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.49	0.49	mg/kg	1	
4-Chloroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.088	0.49	0.49	mg/kg	1	
4-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Nitrophenol	ND	0.15	0.49	0.49	mg/kg	1	
Acenaphthene	ND	0.088	0.49	0.49	mg/kg	1	
Acenaphthylene	ND	0.088	0.49	0.49	mg/kg	1	
Aniline	ND	0.23	0.49	0.49	mg/kg	1	
Anthracene	ND	0.078	0.49	0.49	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.098	0.49	0.49	mg/kg	1	
Benzidine	ND	1.2	4.9	4.9	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (a) pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.98	0.98	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.49	0.49	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.49	0.49	mg/kg	1	

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-04 LN06216

Sampled: 05/28/13 08:54 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 20:38 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.088	0.49	0.49	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.49	0.49	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.49	0.49	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.49	0.49	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.49	0.49	mg/kg	1	
Carbazole	ND	0.088	0.49	0.49	mg/kg	1	
Chrysene	ND	0.088	0.49	0.49	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.049	0.98	0.98	mg/kg	1	
Dibenzofuran	ND	0.088	0.49	0.49	mg/kg	1	
Diethyl phthalate	ND	0.059	0.49	0.49	mg/kg	1	
Dimethyl phthalate	ND	0.86	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.078	0.49	0.49	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.49	0.49	mg/kg	1	
Fluoranthene	ND	0.11	0.49	0.49	mg/kg	1	
Fluorene	ND	0.069	0.49	0.49	mg/kg	1	
Hexachlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
Hexachlorobutadiene	ND	0.088	0.49	0.49	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.49	0.49	mg/kg	1	
Hexachloroethane	ND	0.069	0.49	0.49	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.088	0.98	0.98	mg/kg	1	
Isophorone	ND	0.098	0.49	0.49	mg/kg	1	
Naphthalene	ND	0.11	0.49	0.49	mg/kg	1	
Nitrobenzene	ND	0.11	0.49	0.49	mg/kg	1	
N-Nitrosodimethylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.49	0.49	mg/kg	1	
Pentachlorophenol	ND	0.16	0.49	0.49	mg/kg	1	
Phenanthrene	ND	0.078	0.49	0.49	mg/kg	1	
Phenol	ND	0.15	0.49	0.49	mg/kg	1	
Pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Pyridine	ND	0.049	0.98	0.98	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*52 %*	Conc:*25.5*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*63 %*	Conc:*15.4*		*39-100*	%		
Surr: 2-Fluorophenol	*71 %*	Conc:*35.0*		*26-115*	%		
Surr: Nitrobenzene-d5	*65 %*	Conc:*16.0*		*49-105*	%		
Surr: Phenol-d5	*70 %*	Conc:*34.3*		*36-105*	%		
Surr: Terphenyl-d14	*72 %*	Conc:*17.6*		*36-106*	%		

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-05 LN06217

Sampled: 05/28/13 09:00 | Sampled By: Client | Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 21:08 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.089	0.50	0.50	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.50	0.50	mg/kg	1	
1,3-Dichlorobenzene	ND	0.079	0.50	0.50	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.50	0.50	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.50	0.50	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2,4-Dinitrophenol	ND	3.8	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.099	0.50	0.50	mg/kg	1	
2,6-Dinitrotoluene	ND	0.079	0.50	0.50	mg/kg	1	
2-Chloronaphthalene	ND	0.079	0.50	0.50	mg/kg	1	
2-Chlorophenol	ND	0.099	0.50	0.50	mg/kg	1	
2-Methylnaphthalene	ND	0.089	0.50	0.50	mg/kg	1	
2-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
2-Nitrophenol	ND	0.22	0.50	0.50	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.50	0.50	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	5.0	5.0	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.50	0.50	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.50	0.50	mg/kg	1	
4-Chloroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.089	0.50	0.50	mg/kg	1	
4-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Nitrophenol	ND	0.15	0.50	0.50	mg/kg	1	
Acenaphthene	ND	0.089	0.50	0.50	mg/kg	1	
Acenaphthylene	ND	0.089	0.50	0.50	mg/kg	1	
Aniline	ND	0.23	0.50	0.50	mg/kg	1	
Anthracene	ND	0.079	0.50	0.50	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.099	0.50	0.50	mg/kg	1	
Benzidine	ND	1.2	5.0	5.0	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.50	0.50	mg/kg	1	
Benzo (a) pyrene	ND	0.079	0.50	0.50	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.50	0.50	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.99	0.99	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.50	0.50	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.50	0.50	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-05 LN06217

Sampled: 05/28/13 09:00 Sampled By: Client Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 21:08 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.089	0.50	0.50	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.50	0.50	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.50	0.50	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.50	0.50	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.50	0.50	mg/kg	1	
Carbazole	ND	0.089	0.50	0.50	mg/kg	1	
Chrysene	ND	0.089	0.50	0.50	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.050	0.99	0.99	mg/kg	1	
Dibenzofuran	ND	0.089	0.50	0.50	mg/kg	1	
Diethyl phthalate	ND	0.059	0.50	0.50	mg/kg	1	
Dimethyl phthalate	ND	0.87	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.079	0.50	0.50	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.50	0.50	mg/kg	1	
Fluoranthene	ND	0.11	0.50	0.50	mg/kg	1	
Fluorene	ND	0.069	0.50	0.50	mg/kg	1	
Hexachlorobenzene	ND	0.079	0.50	0.50	mg/kg	1	
Hexachlorobutadiene	ND	0.089	0.50	0.50	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.50	0.50	mg/kg	1	
Hexachloroethane	ND	0.069	0.50	0.50	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.089	0.99	0.99	mg/kg	1	
Isophorone	ND	0.099	0.50	0.50	mg/kg	1	
Naphthalene	ND	0.11	0.50	0.50	mg/kg	1	
Nitrobenzene	ND	0.11	0.50	0.50	mg/kg	1	
N-Nitrosodimethylamine	ND	0.089	0.50	0.50	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.089	0.50	0.50	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.50	0.50	mg/kg	1	
Pentachlorophenol	ND	0.16	0.50	0.50	mg/kg	1	
Phenanthrene	ND	0.079	0.50	0.50	mg/kg	1	
Phenol	ND	0.15	0.50	0.50	mg/kg	1	
Pyrene	ND	0.079	0.50	0.50	mg/kg	1	
Pyridine	ND	0.050	0.99	0.99	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*49 %*	Conc:*24.4*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*59 %*	Conc:*14.6*		*39-100*	%		
Surr: 2-Fluorophenol	*66 %*	Conc:*32.6*		*26-115*	%		
Surr: Nitrobenzene-d5	*61 %*	Conc:*15.1*		*49-105*	%		
Surr: Phenol-d5	*65 %*	Conc:*32.3*		*36-105*	%		
Surr: Terphenyl-d14	*62 %*	Conc:*15.3*		*36-106*	%		

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-06 **LN06219**

Sampled: 05/28/13 09:04 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 21:39 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.080	0.45	0.45	mg/kg	1	
1,2-Dichlorobenzene	ND	0.098	0.45	0.45	mg/kg	1	
1,3-Dichlorobenzene	ND	0.071	0.45	0.45	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.45	0.45	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.098	0.45	0.45	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.098	0.45	0.45	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.45	0.45	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2,4-Dinitrophenol	ND	3.4	22	22	mg/kg	1	
2,4-Dinitrotoluene	ND	0.089	0.45	0.45	mg/kg	1	
2,6-Dinitrotoluene	ND	0.071	0.45	0.45	mg/kg	1	
2-Chloronaphthalene	ND	0.071	0.45	0.45	mg/kg	1	
2-Chlorophenol	ND	0.089	0.45	0.45	mg/kg	1	
2-Methylnaphthalene	ND	0.080	0.45	0.45	mg/kg	1	
2-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
2-Nitrophenol	ND	0.20	0.45	0.45	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.3	2.2	2.2	mg/kg	1	
3-Nitroaniline	ND	0.13	0.45	0.45	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.5	4.5	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.062	0.45	0.45	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.098	0.45	0.45	mg/kg	1	
4-Chloroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.080	0.45	0.45	mg/kg	1	
4-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Nitrophenol	ND	0.13	0.45	0.45	mg/kg	1	
Acenaphthene	ND	0.080	0.45	0.45	mg/kg	1	
Acenaphthylene	ND	0.080	0.45	0.45	mg/kg	1	
Aniline	ND	0.21	0.45	0.45	mg/kg	1	
Anthracene	ND	0.071	0.45	0.45	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.089	0.45	0.45	mg/kg	1	
Benzidine	ND	1.1	4.5	4.5	mg/kg	1	
Benzo (a) anthracene	ND	0.062	0.45	0.45	mg/kg	1	
Benzo (a) pyrene	ND	0.071	0.45	0.45	mg/kg	1	
Benzo (b) fluoranthene	ND	0.062	0.45	0.45	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.054	0.89	0.89	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.45	0.45	mg/kg	1	
Benzoic acid	ND	1.7	22	22	mg/kg	1	
Benzyl alcohol	ND	0.12	0.45	0.45	mg/kg	1	

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-06 LN05219

Sampled: 05/28/13 09:04 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 21:39 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.080	0.45	0.45	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.098	0.45	0.45	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.12	0.45	0.45	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.45	0.45	mg/kg	1	
Butyl benzyl phthalate	ND	0.13	0.45	0.45	mg/kg	1	
Carbazole	ND	0.080	0.45	0.45	mg/kg	1	
Chrysene	ND	0.080	0.45	0.45	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.045	0.89	0.89	mg/kg	1	
Dibenzofuran	ND	0.080	0.45	0.45	mg/kg	1	
Diethyl phthalate	ND	0.054	0.45	0.45	mg/kg	1	
Dimethyl phthalate	ND	0.79	2.2	2.2	mg/kg	1	
Di-n-butyl phthalate	ND	0.071	0.45	0.45	mg/kg	1	
Di-n-octyl phthalate	ND	0.12	0.45	0.45	mg/kg	1	
Fluoranthene	ND	0.098	0.45	0.45	mg/kg	1	
Fluorene	ND	0.062	0.45	0.45	mg/kg	1	
Hexachlorobenzene	ND	0.071	0.45	0.45	mg/kg	1	
Hexachlorobutadiene	ND	0.080	0.45	0.45	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.45	0.45	mg/kg	1	
Hexachloroethane	ND	0.062	0.45	0.45	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.080	0.89	0.89	mg/kg	1	
Isophorone	ND	0.089	0.45	0.45	mg/kg	1	
Naphthalene	ND	0.098	0.45	0.45	mg/kg	1	
Nitrobenzene	ND	0.098	0.45	0.45	mg/kg	1	
N-Nitrosodimethylamine	ND	0.080	0.45	0.45	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.080	0.45	0.45	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.062	0.45	0.45	mg/kg	1	
Pentachlorophenol	ND	0.14	0.45	0.45	mg/kg	1	
Phenanthrene	ND	0.071	0.45	0.45	mg/kg	1	
Phenol	ND	0.13	0.45	0.45	mg/kg	1	
Pyrene	ND	0.071	0.45	0.45	mg/kg	1	
Pyridine	ND	0.045	0.89	0.89	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*51 %*	Conc:*22.8*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*64 %*	Conc:*14.3*		*39-100*	%		
Surr: 2-Fluorophenol	*73 %*	Conc:*32.8*		*26-115*	%		
Surr: Nitrobenzene-d5	*67 %*	Conc:*14.9*		*49-105*	%		
Surr: Phenol-d5	*71 %*	Conc:*31.9*		*36-105*	%		
Surr: Terphenyl-d14	*74 %*	Conc:*16.5*		*36-106*	%		

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LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-07 LN06229

Sampled: 05/28/13 09:40 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 22:09 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.085	0.47	0.47	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.47	0.47	mg/kg	1	
1,3-Dichlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.47	0.47	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.47	0.47	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2,4-Dinitrophenol	ND	3.6	23	23	mg/kg	1	
2,4-Dinitrotoluene	ND	0.094	0.47	0.47	mg/kg	1	
2,6-Dinitrotoluene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chloronaphthalene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chlorophenol	ND	0.094	0.47	0.47	mg/kg	1	
2-Methylnaphthalene	ND	0.085	0.47	0.47	mg/kg	1	
2-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
2-Nitrophenol	ND	0.21	0.47	0.47	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.3	2.3	mg/kg	1	
3-Nitroaniline	ND	0.14	0.47	0.47	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.7	4.7	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.066	0.47	0.47	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.47	0.47	mg/kg	1	
4-Chloroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.085	0.47	0.47	mg/kg	1	
4-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Nitrophenol	ND	0.14	0.47	0.47	mg/kg	1	
Acenaphthene	ND	0.085	0.47	0.47	mg/kg	1	
Acenaphthylene	ND	0.085	0.47	0.47	mg/kg	1	
Aniline	ND	0.22	0.47	0.47	mg/kg	1	
Anthracene	ND	0.075	0.47	0.47	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.094	0.47	0.47	mg/kg	1	
Benzidine	ND	1.2	4.7	4.7	mg/kg	1	
Benzo (a) anthracene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (a) pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Benzo (b) fluoranthene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.056	0.94	0.94	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.47	0.47	mg/kg	1	
Benzoic acid	ND	1.8	23	23	mg/kg	1	
Benzyl alcohol	ND	0.13	0.47	0.47	mg/kg	1	

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LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-07 LN05229

Sampled: 05/28/13 09:40 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 22:09 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.085	0.47	0.47	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.47	0.47	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.47	0.47	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.47	0.47	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.47	0.47	mg/kg	1	
Carbazole	ND	0.085	0.47	0.47	mg/kg	1	
Chrysene	ND	0.085	0.47	0.47	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.047	0.94	0.94	mg/kg	1	
Dibenzofuran	ND	0.085	0.47	0.47	mg/kg	1	
Diethyl phthalate	ND	0.056	0.47	0.47	mg/kg	1	
Dimethyl phthalate	ND	0.83	2.3	2.3	mg/kg	1	
Di-n-butyl phthalate	ND	0.075	0.47	0.47	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.47	0.47	mg/kg	1	
Fluoranthene	ND	0.10	0.47	0.47	mg/kg	1	
Fluorene	ND	0.066	0.47	0.47	mg/kg	1	
Hexachlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
Hexachlorobutadiene	ND	0.085	0.47	0.47	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.47	0.47	mg/kg	1	
Hexachloroethane	ND	0.066	0.47	0.47	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.085	0.94	0.94	mg/kg	1	
Isophorone	ND	0.094	0.47	0.47	mg/kg	1	
Naphthalene	ND	0.10	0.47	0.47	mg/kg	1	
Nitrobenzene	ND	0.10	0.47	0.47	mg/kg	1	
N-Nitrosodimethylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.066	0.47	0.47	mg/kg	1	
Pentachlorophenol	ND	0.15	0.47	0.47	mg/kg	1	
Phenanthrene	ND	0.075	0.47	0.47	mg/kg	1	
Phenol	ND	0.14	0.47	0.47	mg/kg	1	
Pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Pyridine	ND	0.047	0.94	0.94	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*46 %*	Conc:*21.5*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*57 %*	Conc:*13.4*		*39-100*	%		
Surr: 2-Fluorophenol	*62 %*	Conc:*29.0*		*26-115*	%		
Surr: Nitrobenzene-d5	*58 %*	Conc:*13.7*		*49-105*	%		
Surr: Phenol-d5	*61 %*	Conc:*28.8*		*36-105*	%		
Surr: Terphenyl-d14	*82 %*	Conc:*19.2*		*36-106*	%		

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-08 **LN06231**

Sampled: 05/28/13 09:44
Sampled By: Client
Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 22:39 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.077	0.43	0.43	mg/kg	1	
1,2-Dichlorobenzene	ND	0.094	0.43	0.43	mg/kg	1	
1,3-Dichlorobenzene	ND	0.068	0.43	0.43	mg/kg	1	
1,4-Dichlorobenzene	ND	0.10	0.43	0.43	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.094	0.43	0.43	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.094	0.43	0.43	mg/kg	1	
2,4-Dichlorophenol	ND	0.11	0.43	0.43	mg/kg	1	
2,4-Dimethylphenol	ND	0.10	0.43	0.43	mg/kg	1	
2,4-Dinitrophenol	ND	3.2	21	21	mg/kg	1	
2,4-Dinitrotoluene	ND	0.085	0.43	0.43	mg/kg	1	
2,6-Dinitrotoluene	ND	0.068	0.43	0.43	mg/kg	1	
2-Chloronaphthalene	ND	0.068	0.43	0.43	mg/kg	1	
2-Chlorophenol	ND	0.085	0.43	0.43	mg/kg	1	
2-Methylnaphthalene	ND	0.077	0.43	0.43	mg/kg	1	
2-Methylphenol	ND	0.10	0.43	0.43	mg/kg	1	
2-Nitroaniline	ND	0.11	0.43	0.43	mg/kg	1	
2-Nitrophenol	ND	0.19	0.43	0.43	mg/kg	1	
3 & 4-Methylphenol	ND	0.10	0.43	0.43	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.3	2.1	2.1	mg/kg	1	
3-Nitroaniline	ND	0.13	0.43	0.43	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.3	4.3	4.3	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.060	0.43	0.43	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.094	0.43	0.43	mg/kg	1	
4-Chloroaniline	ND	0.11	0.43	0.43	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.077	0.43	0.43	mg/kg	1	
4-Nitroaniline	ND	0.11	0.43	0.43	mg/kg	1	
4-Nitrophenol	ND	0.13	0.43	0.43	mg/kg	1	
Acenaphthene	ND	0.077	0.43	0.43	mg/kg	1	
Acenaphthylene	ND	0.077	0.43	0.43	mg/kg	1	
Aniline	ND	0.20	0.43	0.43	mg/kg	1	
Anthracene	ND	0.068	0.43	0.43	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.085	0.43	0.43	mg/kg	1	
Benzidine	ND	1.1	4.3	4.3	mg/kg	1	
Benzo (a) anthracene	ND	0.060	0.43	0.43	mg/kg	1	
Benzo (a) pyrene	ND	0.068	0.43	0.43	mg/kg	1	
Benzo (b) fluoranthene	ND	0.060	0.43	0.43	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.051	0.85	0.85	mg/kg	1	
Benzo (k) fluoranthene	ND	0.11	0.43	0.43	mg/kg	1	
Benzoic acid	ND	1.6	21	21	mg/kg	1	
Benzyl alcohol	ND	0.12	0.43	0.43	mg/kg	1	

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-08 LN06231

Sampled: 05/28/13 09:44 Sampled By: Client Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 22:39 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.077	0.43	0.43	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.094	0.43	0.43	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.12	0.43	0.43	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.10	0.43	0.43	mg/kg	1	
Butyl benzyl phthalate	ND	0.13	0.43	0.43	mg/kg	1	
Carbazole	ND	0.077	0.43	0.43	mg/kg	1	
Chrysene	ND	0.077	0.43	0.43	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.043	0.85	0.85	mg/kg	1	
Dibenzofuran	ND	0.077	0.43	0.43	mg/kg	1	
Diethyl phthalate	ND	0.051	0.43	0.43	mg/kg	1	
Dimethyl phthalate	ND	0.75	2.1	2.1	mg/kg	1	
Di-n-butyl phthalate	ND	0.068	0.43	0.43	mg/kg	1	
Di-n-octyl phthalate	ND	0.12	0.43	0.43	mg/kg	1	
Fluoranthene	ND	0.094	0.43	0.43	mg/kg	1	
Fluorene	ND	0.060	0.43	0.43	mg/kg	1	
Hexachlorobenzene	ND	0.068	0.43	0.43	mg/kg	1	
Hexachlorobutadiene	ND	0.077	0.43	0.43	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.10	0.43	0.43	mg/kg	1	
Hexachloroethane	ND	0.060	0.43	0.43	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.077	0.85	0.85	mg/kg	1	
Isophorone	ND	0.085	0.43	0.43	mg/kg	1	
Naphthalene	ND	0.094	0.43	0.43	mg/kg	1	
Nitrobenzene	ND	0.094	0.43	0.43	mg/kg	1	
N-Nitrosodimethylamine	ND	0.077	0.43	0.43	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.077	0.43	0.43	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.060	0.43	0.43	mg/kg	1	
Pentachlorophenol	ND	0.14	0.43	0.43	mg/kg	1	
Phenanthrene	ND	0.068	0.43	0.43	mg/kg	1	
Phenol	ND	0.13	0.43	0.43	mg/kg	1	
Pyrene	ND	0.068	0.43	0.43	mg/kg	1	
Pyridine	ND	0.043	0.85	0.85	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*55 %*	Conc:*23.2*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*66 %*	Conc:*14.0*		*39-100*	%		
Surr: 2-Fluorophenol	*78 %*	Conc:*33.3*		*26-115*	%		
Surr: Nitrobenzene-d5	*69 %*	Conc:*14.6*		*49-105*	%		
Surr: Phenol-d5	*76 %*	Conc:*32.5*		*36-105*	%		
Surr: Terphenyl-d14	*76 %*	Conc:*16.3*		*36-106*	%		

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-09 LN06241

Sampled: 05/28/13 10:20 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 23:10 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.089	0.49	0.49	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.49	0.49	mg/kg	1	
1,3-Dichlorobenzene	ND	0.079	0.49	0.49	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.49	0.49	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.49	0.49	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.099	0.49	0.49	mg/kg	1	
2,6-Dinitrotoluene	ND	0.079	0.49	0.49	mg/kg	1	
2-Chloronaphthalene	ND	0.079	0.49	0.49	mg/kg	1	
2-Chlorophenol	ND	0.099	0.49	0.49	mg/kg	1	
2-Methylnaphthalene	ND	0.089	0.49	0.49	mg/kg	1	
2-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
2-Nitrophenol	ND	0.22	0.49	0.49	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.49	0.49	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.9	4.9	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.49	0.49	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.49	0.49	mg/kg	1	
4-Chloroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.089	0.49	0.49	mg/kg	1	
4-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Nitrophenol	ND	0.15	0.49	0.49	mg/kg	1	
Acenaphthene	ND	0.089	0.49	0.49	mg/kg	1	
Acenaphthylene	ND	0.089	0.49	0.49	mg/kg	1	
Aniline	ND	0.23	0.49	0.49	mg/kg	1	
Anthracene	ND	0.079	0.49	0.49	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.099	0.49	0.49	mg/kg	1	
Benzidine	ND	1.2	4.9	4.9	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (a) pyrene	ND	0.079	0.49	0.49	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (g,h,i) perylene	**0.12**	0.059	0.99	0.99	mg/kg	1	J
Benzo (k) fluoranthene	ND	0.13	0.49	0.49	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.49	0.49	mg/kg	1	

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-09 LN06241

Sampled: 05/28/13 10:20 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 23:10 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.089	0.49	0.49	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.49	0.49	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.49	0.49	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.49	0.49	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.49	0.49	mg/kg	1	
Carbazole	ND	0.089	0.49	0.49	mg/kg	1	
Chrysene	ND	0.089	0.49	0.49	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.049	0.99	0.99	mg/kg	1	
Dibenzofuran	ND	0.089	0.49	0.49	mg/kg	1	
Diethyl phthalate	ND	0.059	0.49	0.49	mg/kg	1	
Dimethyl phthalate	ND	0.87	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.079	0.49	0.49	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.49	0.49	mg/kg	1	
Fluoranthene	ND	0.11	0.49	0.49	mg/kg	1	
Fluorene	ND	0.069	0.49	0.49	mg/kg	1	
Hexachlorobenzene	ND	0.079	0.49	0.49	mg/kg	1	
Hexachlorobutadiene	ND	0.089	0.49	0.49	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.49	0.49	mg/kg	1	
Hexachloroethane	ND	0.069	0.49	0.49	mg/kg	1	
Indeno (1,2,3-cd) pyrene	**0.17**	0.089	0.99	0.99	mg/kg	1	J
Isophorone	ND	0.099	0.49	0.49	mg/kg	1	
Naphthalene	ND	0.11	0.49	0.49	mg/kg	1	
Nitrobenzene	ND	0.11	0.49	0.49	mg/kg	1	
N-Nitrosodimethylamine	ND	0.089	0.49	0.49	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.089	0.49	0.49	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.49	0.49	mg/kg	1	
Pentachlorophenol	ND	0.16	0.49	0.49	mg/kg	1	
Phenanthrene	ND	0.079	0.49	0.49	mg/kg	1	
Phenol	ND	0.15	0.49	0.49	mg/kg	1	
Pyrene	ND	0.079	0.49	0.49	mg/kg	1	
Pyridine	ND	0.049	0.99	0.99	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*52 %*	Conc:*25.5*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*62 %*	Conc:*15.3*		*39-100*	%		
Surr: 2-Fluorophenol	*74 %*	Conc:*36.3*		*26-115*	%		
Surr: Nitrobenzene-d5	*67 %*	Conc:*16.4*		*49-105*	%		
Surr: Phenol-d5	*71 %*	Conc:*35.2*		*36-105*	%		
Surr: Terphenyl-d14	*68 %*	Conc:*16.6*		*36-106*	%		

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800020

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-10 LN06243

Sampled: 05/28/13 10:24 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 23:40 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.080	0.45	0.45	mg/kg	1	
1,2-Dichlorobenzene	ND	0.098	0.45	0.45	mg/kg	1	
1,3-Dichlorobenzene	ND	0.071	0.45	0.45	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.45	0.45	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.098	0.45	0.45	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.098	0.45	0.45	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.45	0.45	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2,4-Dinitrophenol	ND	3.4	22	22	mg/kg	1	
2,4-Dinitrotoluene	ND	0.089	0.45	0.45	mg/kg	1	
2,6-Dinitrotoluene	ND	0.071	0.45	0.45	mg/kg	1	
2-Chloronaphthalene	ND	0.071	0.45	0.45	mg/kg	1	
2-Chlorophenol	ND	0.089	0.45	0.45	mg/kg	1	
2-Methylnaphthalene	ND	0.080	0.45	0.45	mg/kg	1	
2-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
2-Nitrophenol	ND	0.20	0.45	0.45	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.3	2.2	2.2	mg/kg	1	
3-Nitroaniline	ND	0.13	0.45	0.45	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.5	4.5	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.062	0.45	0.45	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.098	0.45	0.45	mg/kg	1	
4-Chloroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.080	0.45	0.45	mg/kg	1	
4-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Nitrophenol	ND	0.13	0.45	0.45	mg/kg	1	
Acenaphthene	ND	0.080	0.45	0.45	mg/kg	1	
Acenaphthylene	ND	0.080	0.45	0.45	mg/kg	1	
Aniline	ND	0.21	0.45	0.45	mg/kg	1	
Anthracene	ND	0.071	0.45	0.45	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.089	0.45	0.45	mg/kg	1	
Benzidine	ND	1.1	4.5	4.5	mg/kg	1	
Benzo (a) anthracene	ND	0.062	0.45	0.45	mg/kg	1	
Benzo (a) pyrene	ND	0.071	0.45	0.45	mg/kg	1	
Benzo (b) fluoranthene	ND	0.062	0.45	0.45	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.054	0.89	0.89	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.45	0.45	mg/kg	1	
Benzoic acid	ND	1.7	22	22	mg/kg	1	
Benzyl alcohol	ND	0.12	0.45	0.45	mg/kg	1	

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-10 LN06243

Sampled: 05/28/13 10:24 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 23:40 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.080	0.45	0.45	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.098	0.45	0.45	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.12	0.45	0.45	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.45	0.45	mg/kg	1	
Butyl benzyl phthalate	ND	0.13	0.45	0.45	mg/kg	1	
Carbazole	ND	0.080	0.45	0.45	mg/kg	1	
Chrysene	ND	0.080	0.45	0.45	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.045	0.89	0.89	mg/kg	1	
Dibenzofuran	ND	0.080	0.45	0.45	mg/kg	1	
Diethyl phthalate	ND	0.054	0.45	0.45	mg/kg	1	
Dimethyl phthalate	ND	0.79	2.2	2.2	mg/kg	1	
Di-n-butyl phthalate	ND	0.071	0.45	0.45	mg/kg	1	
Di-n-octyl phthalate	ND	0.12	0.45	0.45	mg/kg	1	
Fluoranthene	ND	0.098	0.45	0.45	mg/kg	1	
Fluorene	ND	0.062	0.45	0.45	mg/kg	1	
Hexachlorobenzene	ND	0.071	0.45	0.45	mg/kg	1	
Hexachlorobutadiene	ND	0.080	0.45	0.45	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.45	0.45	mg/kg	1	
Hexachloroethane	ND	0.062	0.45	0.45	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.080	0.89	0.89	mg/kg	1	
Isophorone	ND	0.089	0.45	0.45	mg/kg	1	
Naphthalene	ND	0.098	0.45	0.45	mg/kg	1	
Nitrobenzene	ND	0.098	0.45	0.45	mg/kg	1	
N-Nitrosodimethylamine	ND	0.080	0.45	0.45	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.080	0.45	0.45	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.062	0.45	0.45	mg/kg	1	
Pentachlorophenol	ND	0.14	0.45	0.45	mg/kg	1	
Phenanthrene	ND	0.071	0.45	0.45	mg/kg	1	
Phenol	ND	0.13	0.45	0.45	mg/kg	1	
Pyrene	ND	0.071	0.45	0.45	mg/kg	1	
Pyridine	ND	0.045	0.89	0.89	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*61 %*	Conc:*27.4*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*70 %*	Conc:*15.7*		*39-100*	%		
Surr: 2-Fluorophenol	*82 %*	Conc:*36.6*		*26-115*	%		
Surr: Nitrobenzene-d5	*74 %*	Conc:*16.5*		*49-105*	%		
Surr: Phenol-d5	*78 %*	Conc:*34.8*		*36-105*	%		
Surr: Terphenyl-d14	*79 %*	Conc:*17.6*		*36-106*	%		

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Sampled: 05/28/13 11:30

3E30014-11 **LN06259**

Sampled By: Client

Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 00:11 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.083	0.46	0.46	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.46	0.46	mg/kg	1	
1,3-Dichlorobenzene	ND	0.074	0.46	0.46	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.46	0.46	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.46	0.46	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.46	0.46	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.46	0.46	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.46	0.46	mg/kg	1	
2,4-Dinitrophenol	ND	3.5	23	23	mg/kg	1	
2,4-Dinitrotoluene	ND	0.092	0.46	0.46	mg/kg	1	
2,6-Dinitrotoluene	ND	0.074	0.46	0.46	mg/kg	1	
2-Chloronaphthalene	ND	0.074	0.46	0.46	mg/kg	1	
2-Chlorophenol	ND	0.092	0.46	0.46	mg/kg	1	
2-Methylnaphthalene	ND	0.083	0.46	0.46	mg/kg	1	
2-Methylphenol	ND	0.11	0.46	0.46	mg/kg	1	
2-Nitroaniline	ND	0.12	0.46	0.46	mg/kg	1	
2-Nitrophenol	ND	0.20	0.46	0.46	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.46	0.46	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.3	2.3	mg/kg	1	
3-Nitroaniline	ND	0.14	0.46	0.46	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.6	4.6	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.065	0.46	0.46	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.46	0.46	mg/kg	1	
4-Chloroaniline	ND	0.12	0.46	0.46	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.083	0.46	0.46	mg/kg	1	
4-Nitroaniline	ND	0.12	0.46	0.46	mg/kg	1	
4-Nitrophenol	ND	0.14	0.46	0.46	mg/kg	1	
Acenaphthene	ND	0.083	0.46	0.46	mg/kg	1	
Acenaphthylene	ND	0.083	0.46	0.46	mg/kg	1	
Aniline	ND	0.21	0.46	0.46	mg/kg	1	
Anthracene	ND	0.074	0.46	0.46	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.092	0.46	0.46	mg/kg	1	
Benzidine	ND	1.2	4.6	4.6	mg/kg	1	
Benzo (a) anthracene	ND	0.065	0.46	0.46	mg/kg	1	
Benzo (a) pyrene	ND	0.074	0.46	0.46	mg/kg	1	
Benzo (b) fluoranthene	ND	0.065	0.46	0.46	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.055	0.92	0.92	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.46	0.46	mg/kg	1	
Benzoic acid	ND	1.8	23	23	mg/kg	1	
Benzyl alcohol	ND	0.13	0.46	0.46	mg/kg	1	

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-11 LN06259

Sampled: 05/28/13 11:30 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 00:11 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.083	0.46	0.46	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.46	0.46	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.46	0.46	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.46	0.46	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.46	0.46	mg/kg	1	
Carbazole	ND	0.083	0.46	0.46	mg/kg	1	
Chrysene	ND	0.083	0.46	0.46	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.046	0.92	0.92	mg/kg	1	
Dibenzofuran	ND	0.083	0.46	0.46	mg/kg	1	
Diethyl phthalate	ND	0.055	0.46	0.46	mg/kg	1	
Dimethyl phthalate	ND	0.81	2.3	2.3	mg/kg	1	
Di-n-butyl phthalate	ND	0.074	0.46	0.46	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.46	0.46	mg/kg	1	
Fluoranthene	ND	0.10	0.46	0.46	mg/kg	1	
Fluorene	ND	0.065	0.46	0.46	mg/kg	1	
Hexachlorobenzene	ND	0.074	0.46	0.46	mg/kg	1	
Hexachlorobutadiene	ND	0.083	0.46	0.46	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.46	0.46	mg/kg	1	
Hexachloroethane	ND	0.065	0.46	0.46	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.083	0.92	0.92	mg/kg	1	
Isophorone	ND	0.092	0.46	0.46	mg/kg	1	
Naphthalene	ND	0.10	0.46	0.46	mg/kg	1	
Nitrobenzene	ND	0.10	0.46	0.46	mg/kg	1	
N-Nitrosodimethylamine	ND	0.083	0.46	0.46	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.083	0.46	0.46	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.065	0.46	0.46	mg/kg	1	
Pentachlorophenol	ND	0.15	0.46	0.46	mg/kg	1	
Phenanthrene	ND	0.074	0.46	0.46	mg/kg	1	
Phenol	ND	0.14	0.46	0.46	mg/kg	1	
Pyrene	ND	0.074	0.46	0.46	mg/kg	1	
Pyridine	ND	0.046	0.92	0.92	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*56 %*	Conc:*25.8*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*69 %*	Conc:*15.9*		*39-100*	%		
Surr: 2-Fluorophenol	*82 %*	Conc:*37.9*		*26-115*	%		
Surr: Nitrobenzene-d5	*72 %*	Conc:*16.5*		*49-105*	%		
Surr: Phenol-d5	*77 %*	Conc:*35.4*		*36-105*	%		
Surr: Terphenyl-d14	*75 %*	Conc:*17.4*		*36-106*	%		

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-12 LN06261

Sampled: 05/28/13 11:34 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 00:41 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.085	0.47	0.47	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.47	0.47	mg/kg	1	
1,3-Dichlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.47	0.47	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.47	0.47	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2,4-Dinitrophenol	ND	3.6	24	24	mg/kg	1	
2,4-Dinitrotoluene	ND	0.094	0.47	0.47	mg/kg	1	
2,6-Dinitrotoluene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chloronaphthalene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chlorophenol	ND	0.094	0.47	0.47	mg/kg	1	
2-Methylnaphthalene	ND	0.085	0.47	0.47	mg/kg	1	
2-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
2-Nitrophenol	ND	0.21	0.47	0.47	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.4	2.4	mg/kg	1	
3-Nitroaniline	ND	0.14	0.47	0.47	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.7	4.7	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.066	0.47	0.47	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.47	0.47	mg/kg	1	
4-Chloroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.085	0.47	0.47	mg/kg	1	
4-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Nitrophenol	ND	0.14	0.47	0.47	mg/kg	1	
Acenaphthene	ND	0.085	0.47	0.47	mg/kg	1	
Acenaphthylene	ND	0.085	0.47	0.47	mg/kg	1	
Aniline	ND	0.22	0.47	0.47	mg/kg	1	
Anthracene	ND	0.075	0.47	0.47	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.094	0.47	0.47	mg/kg	1	
Benzidine	ND	1.2	4.7	4.7	mg/kg	1	
Benzo (a) anthracene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (a) pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Benzo (b) fluoranthene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.057	0.94	0.94	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.47	0.47	mg/kg	1	
Benzoic acid	ND	1.8	24	24	mg/kg	1	
Benzyl alcohol	ND	0.13	0.47	0.47	mg/kg	1	

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-12 **LN06261**

Sampled: 05/28/13 11:34
Sampled By: Client
Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 00:41 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.085	0.47	0.47	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.47	0.47	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.47	0.47	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.47	0.47	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.47	0.47	mg/kg	1	
Carbazole	ND	0.085	0.47	0.47	mg/kg	1	
Chrysene	ND	0.085	0.47	0.47	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.047	0.94	0.94	mg/kg	1	
Dibenzofuran	ND	0.085	0.47	0.47	mg/kg	1	
Diethyl phthalate	ND	0.057	0.47	0.47	mg/kg	1	
Dimethyl phthalate	ND	0.83	2.4	2.4	mg/kg	1	
Di-n-butyl phthalate	ND	0.075	0.47	0.47	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.47	0.47	mg/kg	1	
Fluoranthene	ND	0.10	0.47	0.47	mg/kg	1	
Fluorene	ND	0.066	0.47	0.47	mg/kg	1	
Hexachlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
Hexachlorobutadiene	ND	0.085	0.47	0.47	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.47	0.47	mg/kg	1	
Hexachloroethane	ND	0.066	0.47	0.47	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.085	0.94	0.94	mg/kg	1	
Isophorone	ND	0.094	0.47	0.47	mg/kg	1	
Naphthalene	ND	0.10	0.47	0.47	mg/kg	1	
Nitrobenzene	ND	0.10	0.47	0.47	mg/kg	1	
N-Nitrosodimethylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.066	0.47	0.47	mg/kg	1	
Pentachlorophenol	ND	0.15	0.47	0.47	mg/kg	1	
Phenanthrene	ND	0.075	0.47	0.47	mg/kg	1	
Phenol	ND	0.14	0.47	0.47	mg/kg	1	
Pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Pyridine	ND	0.047	0.94	0.94	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*55 %*	Conc:*26.1*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*67 %*	Conc:*15.7*		*39-100*	%		
Surr: 2-Fluorophenol	*78 %*	Conc:*36.9*		*26-115*	%		
Surr: Nitrobenzene-d5	*70 %*	Conc:*16.6*		*49-105*	%		
Surr: Phenol-d5	*75 %*	Conc:*35.5*		*36-105*	%		
Surr: Terphenyl-d14	*76 %*	Conc:*18.0*		*36-106*	%		

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QUALITY CONTROL SECTION

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

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Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3F0001-BLK1)				Analyzed: 06/04/13 14:03						
1,2,4-Trichlorobenzene	ND	0.050	mg/kg							
1,2-Dichlorobenzene	ND	0.050	mg/kg							
1,3-Dichlorobenzene	ND	0.050	mg/kg							
1,4-Dichlorobenzene	ND	0.050	mg/kg							
2,4,5-Trichlorophenol	ND	0.050	mg/kg							
2,4,6-Trichlorophenol	ND	0.050	mg/kg							
2,4-Dichlorophenol	ND	0.050	mg/kg							
2,4-Dimethylphenol	ND	0.050	mg/kg							
2,4-Dinitrophenol	ND	2.5	mg/kg							
2,4-Dinitrotoluene	ND	0.050	mg/kg							
2,6-Dinitrotoluene	ND	0.050	mg/kg							
2-Chloronaphthalene	ND	0.050	mg/kg							
2-Chlorophenol	ND	0.050	mg/kg							
2-Methylnaphthalene	ND	0.050	mg/kg							
2-Methylphenol	ND	0.050	mg/kg							
2-Nitroaniline	ND	0.050	mg/kg							
2-Nitrophenol	ND	0.050	mg/kg							
3 & 4-Methylphenol	ND	0.050	mg/kg							
3,3'-Dichlorobenzidine	ND	0.25	mg/kg							
3-Nitroaniline	ND	0.050	mg/kg							
4,6-Dinitro-2-methylphenol	ND	0.50	mg/kg							
4-Bromophenyl phenyl ether	ND	0.050	mg/kg							
4-Chloro-3-methylphenol	ND	0.050	mg/kg							
4-Chloroaniline	ND	0.050	mg/kg							
4-Chlorophenyl phenyl ether	ND	0.050	mg/kg							
4-Nitroaniline	ND	0.050	mg/kg							
4-Nitrophenol	ND	0.050	mg/kg							
Acenaphthene	ND	0.050	mg/kg							
Acenaphthylene	ND	0.050	mg/kg							
Aniline	ND	0.050	mg/kg							
Anthracene	ND	0.050	mg/kg							
Azobenzene/1,2-Diphenylhydrazine	ND	0.050	mg/kg							
Benzidine	ND	0.50	mg/kg							
Benzo (a) anthracene	ND	0.050	mg/kg							
Benzo (a) pyrene	ND	0.050	mg/kg							
Benzo (b) fluoranthene	ND	0.050	mg/kg							
Benzo (g,h,i) perylene	ND	0.10	mg/kg							
Benzo (k) fluoranthene	ND	0.050	mg/kg							
Benzoic acid	ND	2.5	mg/kg							
Benzyl alcohol	ND	0.050	mg/kg							
Bis(2-chloroethoxy)methane	ND	0.050	mg/kg							
Bis(2-chloroethyl)ether	ND	0.050	mg/kg							
Bis(2-chloroisopropyl)ether	ND	0.050	mg/kg							
Bis(2-ethylhexyl)phthalate	0.0305	0.050	mg/kg					NR		J

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Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3F0001-BLK1)				Analyzed: 06/04/13 14:03						
Butyl benzyl phthalate	ND	0.050	mg/kg							
Carbazole	ND	0.050	mg/kg							
Chrysene	ND	0.050	mg/kg							
Dibenzo (a,h) anthracene	ND	0.10	mg/kg							
Dibenzofuran	ND	0.050	mg/kg							
Diethyl phthalate	ND	0.050	mg/kg							
Dimethyl phthalate	ND	0.25	mg/kg							
Di-n-butyl phthalate	0.0315	0.050	mg/kg					NR		J
Di-n-octyl phthalate	ND	0.050	mg/kg							
Fluoranthene	ND	0.050	mg/kg							
Fluorene	ND	0.050	mg/kg							
Hexachlorobenzene	ND	0.050	mg/kg							
Hexachlorobutadiene	ND	0.050	mg/kg							
Hexachlorocyclopentadiene	ND	0.050	mg/kg							
Hexachloroethane	ND	0.050	mg/kg							
Indeno (1,2,3-cd) pyrene	ND	0.10	mg/kg							
Isophorone	ND	0.050	mg/kg							
Naphthalene	ND	0.050	mg/kg							
Nitrobenzene	ND	0.050	mg/kg							
N-Nitrosodimethylamine	ND	0.050	mg/kg							
N-Nitrosodi-n-propylamine	ND	0.050	mg/kg							
N-Nitrosodiphenylamine	ND	0.050	mg/kg							
Pentachlorophenol	ND	0.050	mg/kg							
Phenanthrene	ND	0.050	mg/kg							
Phenol	ND	0.050	mg/kg							
Pyrene	ND	0.050	mg/kg							
Pyridine	ND	0.10	mg/kg							
Surr: 2,4,6-Tribromophenol	*4.31*		*mg/kg*	*5.00*		*86*	*40-97*			
Surr: 2-Fluorobiphenyl	*2.47*		*mg/kg*	*2.50*		*99*	*39-100*			
Surr: 2-Fluorophenol	*7.19*		*mg/kg*	*5.00*		*144*	*26-115*			*S-11*
Surr: Nitrobenzene-d5	*2.55*		*mg/kg*	*2.50*		*102*	*49-105*			
Surr: Phenol-d5	*5.47*		*mg/kg*	*5.00*		*109*	*36-105*			*S-11*
Surr: Terphenyl-d14	*2.80*		*mg/kg*	*2.50*		*112*	*36-106*			*S-11*
LCS (W3F0001-BS1)				Analyzed: 06/04/13 14:33						
1,2,4-Trichlorobenzene	1.94	0.050	mg/kg	2.50		78	28-120	NR		
1,4-Dichlorobenzene	1.98	0.050	mg/kg	2.50		79	41-98	NR		
2,4-Dinitrotoluene	2.07	0.050	mg/kg	2.50		83	43-121	NR		
2-Chlorophenol	1.96	0.050	mg/kg	2.50		78	22-123	NR		
4-Chloro-3-methylphenol	1.88	0.050	mg/kg	2.50		75	26-126	NR		
4-Nitrophenol	1.81	0.050	mg/kg	2.50		72	17-139	NR		
Acenaphthene	2.07	0.050	mg/kg	2.50		83	44-105	NR		
N-Nitrosodi-n-propylamine	2.00	0.050	mg/kg	2.50		80	24-128	NR		
Pentachlorophenol	1.80	0.050	mg/kg	2.50		72	20-116	NR		

800029

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Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W3F0001-BS1)				Analyzed: 06/04/13 14:33						
Phenol	1.82	0.050	mg/kg	2.50		73	22-123	NR		
Pyrene	2.13	0.050	mg/kg	2.50		85	42-118	NR		
Surr: 2,4,6-Tribromophenol	*3.91*		*mg/kg*	*5.00*		*78*	*40-97*			
Surr: 2-Fluorobiphenyl	*2.15*		*mg/kg*	*2.50*		*86*	*39-100*			
Surr: 2-Fluorophenol	*4.65*		*mg/kg*	*5.00*		*93*	*26-115*			
Surr: Nitrobenzene-d5	*1.99*		*mg/kg*	*2.50*		*80*	*49-105*			
Surr: Phenol-d5	*4.22*		*mg/kg*	*5.00*		*84*	*36-105*			
Surr: Terphenyl-d14	*2.35*		*mg/kg*	*2.50*		*94*	*36-106*			
Matrix Spike (W3F0001-MS1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:03						
1,2,4-Trichlorobenzene	16.2	0.49	mg/kg	24.4	ND	66	26-124	NR		
1,4-Dichlorobenzene	16.9	0.49	mg/kg	24.4	ND	69	28-117	NR		
2,4-Dinitrotoluene	19.2	0.49	mg/kg	24.4	ND	79	26-132	NR		
2-Chlorophenol	16.4	0.49	mg/kg	24.4	ND	67	24-124	NR		
4-Chloro-3-methylphenol	15.9	0.49	mg/kg	24.4	ND	65	5-153	NR		
4-Nitrophenol	17.6	0.49	mg/kg	24.4	ND	72	0.6-139	NR		
Acenaphthene	17.6	0.49	mg/kg	24.4	ND	72	33-117	NR		
N-Nitrosodi-n-propylamine	16.5	0.49	mg/kg	24.4	ND	68	20-128	NR		
Pentachlorophenol	16.9	0.49	mg/kg	24.4	0.394	68	7-125	NR		
Phenol	15.8	0.49	mg/kg	24.4	ND	65	40-120	NR		
Pyrene	20.1	0.49	mg/kg	24.4	ND	83	22-148	NR		
Surr: 2,4,6-Tribromophenol	*34.6*		*mg/kg*	*48.8*		*71*	*40-97*			
Surr: 2-Fluorobiphenyl	*17.3*		*mg/kg*	*24.4*		*71*	*39-100*			
Surr: 2-Fluorophenol	*35.6*		*mg/kg*	*48.8*		*73*	*26-115*			
Surr: Nitrobenzene-d5	*16.1*		*mg/kg*	*24.4*		*66*	*49-105*			
Surr: Phenol-d5	*34.3*		*mg/kg*	*48.8*		*70*	*36-105*			
Surr: Terphenyl-d14	*21.4*		*mg/kg*	*24.4*		*88*	*36-106*			
Matrix Spike Dup (W3F0001-MSD1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:33						
1,2,4-Trichlorobenzene	14.9	0.48	mg/kg	23.9	ND	62	26-124	8	30	
1,4-Dichlorobenzene	15.5	0.48	mg/kg	23.9	ND	65	28-117	9	30	
2,4-Dinitrotoluene	15.8	0.48	mg/kg	23.9	ND	66	26-132	19	30	
2-Chlorophenol	15.3	0.48	mg/kg	23.9	ND	64	24-124	7	30	
4-Chloro-3-methylphenol	14.4	0.48	mg/kg	23.9	ND	60	5-153	10	30	
4-Nitrophenol	13.6	0.48	mg/kg	23.9	ND	57	0.6-139	25	30	
Acenaphthene	16.0	0.48	mg/kg	23.9	ND	67	33-117	10	30	
N-Nitrosodi-n-propylamine	14.2	0.48	mg/kg	23.9	ND	59	20-128	15	30	
Pentachlorophenol	12.3	0.48	mg/kg	23.9	0.394	50	7-125	31	30	MS-05
Phenol	14.5	0.48	mg/kg	23.9	ND	61	40-120	9	30	
Pyrene	15.6	0.48	mg/kg	23.9	ND	65	22-148	25	30	
Surr: 2,4,6-Tribromophenol	*27.8*		*mg/kg*	*47.8*		*58*	*40-97*			
Surr: 2-Fluorobiphenyl	*14.9*		*mg/kg*	*23.9*		*62*	*39-100*			
Surr: 2-Fluorophenol	*31.0*		*mg/kg*	*47.8*		*65*	*26-115*			
Surr: Nitrobenzene-d5	*14.6*		*mg/kg*	*23.9*		*61*	*49-105*			
Surr: Phenol-d5	*30.1*		*mg/kg*	*47.8*		*63*	*36-105*			

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Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike Dup (W3F0001-MSD1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:33						
Surr: Terphenyl-d14	*15.7*		*mg/kg*	*23.9*		*66*	*36-106*			

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Notes and Definitions

S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit
NR	Not Reportable

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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DEPARTMENT OF WATER & POWER
OF THE CITY OF LOS ANGELES
Power System
Integrated Support Services

ENVIRONMENTAL LABORATORY DATA REPORT

CLIENT: GEORGE FAEUSTLE

PROJECT: 7600 TYRONE AVE

REPORT NO.: C12055 (Revised and Updated)

TABLE OF CONTENTS

DEPARTMENT OF WATER & POWER
OF THE CITY OF LOS ANGELES
Power System
Integrated Support Services

Report No. C12055
COC 13-1326
Page 1 of 1 w/ attachments
Updated and Revised

ENVIRONMENTAL LABORATORY DATA REPORT

7600 TYRONE AVE, VAN NUYS
Soil Samples

Soil samples from 7600 Tyrone Ave, Van Nuys, were submitted to the Environmental Laboratory on May 29, 2013 for the determination of their Volatile Organic Compounds (VOC), Metals, Semi-Volatile Organic Compounds (SVOC), Total Extractable Petroleum Hydrocarbons (TEPH) including Motor Oil (MO) and Diesel Range Organic (DRO), Chlorinated Pesticides, Polychlorinated Biphenyls (PCBs), and Gasoline Range Organics (GRO) content.

Testing information including tests requested and test methods are listed below. All quality assurance data indicate that the results for these samples are of acceptable quality.

Analysis Requested	Method	Results	Analyzed by
VOC	EPA 8260 B	**Attachment #1**	Environmental Lab
Metals	EPA 6010B/7471	**Attachment #2**	Environmental Lab
TEPH/Diesel/Motor Oil	EPA 8015M	**Attachment #3**	Environmental Lab
GRO	EPA 8015B	**Attachment #4**	Environmental Lab
PCB	EPA 8082	**Attachment #5**	Weck Laboratories
Pesticides	EPA 8081A	**Attachment #6**	Weck Laboratories
SVOC	EPA 8270 C	**Attachment #7**	Weck Laboratories

This report has been updated to include Pesticide Analyses (EPA 8081A- Attachment #6). The report was also revised as the MDL for Mercury Analysis in the original report was listed in parts per billion (ug/kg) instead of parts per million (mg/kg).

Additionally, please not that VOC analyses in Attachment #1 include results for this project from COC-1321 as well.

If you have any questions, or if further information is required, please contact Mr. Jeremy Stoa at (213) 367-7266 or Mr. Kevin Han at (213) 367-7267.

Date Completed: 6/6/2013
Work Order No.: AHJ17
Job Card No.: J95550
Copies to: G. Faeustle
N. Liu
K. Han
J. Stoa
FileNet

Test Performed by: Environmental Lab
Weck Laboratories
Report By: JS/LK Date: 6/14/13
Checked by: JMC Date: 6/14/13

APPROVED BY: Kevin Han 6/14/13
Kevin Han Date
Interim Laboratory Manager
Environmental Laboratory

Environme l Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
(213) 367-7248/7399
(213) 367-7285 FAX

Department of Water and Pc r
City of Los Angeles
Chain of Custody Record

COC #: 13-1326

Report C# 12055 JC# J95550 WO# 4AJ17
Refrig#. R154 Shelf ____ Bin#. ____
Initial of Field Personnel: KD
No. of Field Test: ____

Sample Location: Tyrone Property, 7600 Tyrone Ave, Van Nuys, CA

#	Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use 1 or X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1	B12-1' LN06314	5/28/13	1300									
2	-2' 06315		1302	ARCHIVE/HOLD	ICE	3	SLEEVE		SOIL	Pb (6010B)		
3	-3' 06316		1304							(ARCHIVE)		
4	B17-1' 06317		1306									
5	-2' 06318		1308	ARCHIVE/HOLD						As (6010B)		
6	-3' 06319		1310							(ARCHIVE)		
7	B13-1' 06320	5/29/13	0745									
8	-2' 06321		0747	ARCHIVE/HOLD **RUSH**		3	SLEEVE			OCPs (8081A)/As (6010B)		
9	-3' 06322		0749							(ARCHIVE)		
10	B15-1' 06323		0800									
11	-2' 06324		0802	ARCHIVE/HOLD								
12	-3' 06325		0804							(ARCHIVE)		
13	B16-1 06326		0810									
14	-2 06327		0812	ARCHIVE/HOLD								
15	-3 06328		0814							(ARCHIVE)		
16	B23-1 06329		0830		5035/ICE	5	SLEEVE			Title 22 Metals (6010B/7471A)/TPHcc (8015M)/SVOCs (8270C)/PCBs (8082)		

Date & Time Stamp: LADWP 2013 MAY 29 AM 10: RECD BY: ENV. CHEM LAB

Requester George Fraser/K. Drake Organization/Div. LADWP/Alta Environ.
Address ____ Tel. ____ Fax ____

Analyst: ____ Date ____
Approved: ____ Date ____

Priority: 2-4 Hrs / 1Day / 2 Wks / 4Wks / Specify: STANDARD

	Printed Name	Signature	Time	Date
Sampled by:	K. Drake (Alta Environmental)	[signature]	1000	5/21/13
Relinquished by:	K. Drake	[signature]	1030	5/29/13
Received by	T. NGUYEN	[signature]	1040	5/29/13

Chem Lab COC Form #1
Revision: 08/01/02

BE YC TY BT JS DW
LK RG KH

*Please archive/HOLD all 2' samples pending the 1'+3' Results
*Do NOT analyze 2' samples

COC13-1326

F00002

Environme[illegible]l Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
(213) 367-7248/7399
(213) 367-7285 FAX

Department of Water and Po[illegible]er
City of Los Angeles
Chain of Custody Record

COC #: 13-1326

Page 2 of 2

Report C#: ____ JC#: ____ WO#: ____
Refrig#: ____ Shelf ____ Bin#: ____
Initial of Field Personnel: [initials] No. of Field Test: ____

Sample Location: TYRONE PROPERTY

#	Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)		Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1	B23-2'	LW06330	5/29/13	0882	ARCHIVE/HOLD								
2	-3'	06331	↓	0884		5035/ICE	5	SLEEVE/LEXAN		SOIL	ARCHIVE (6010B) (6015AC) (8270C)		(8082)
3	B24-1'	06332		0840		↓	↓			↓	T22 Metals/TPHcc/SVOCs/PCBs		
4	-2'	06333		0842	ARCHIVE/HOLD	ICE	3	SLEEVE		SOIL	OCPs (8081A) + As (6010B)		
5	-3'	06334		0844							(ARCHIVE)		
6	B27-1	06335		0900			↓	↓	↓		↓		
7	-2	06336		0902	ARCHIVE/HOLD	5035/ICE	7				(6010B) Metals-T22/TPHcc/VOCs/SVOCs/PCBs		(8082)
8	-3	06337		0904		↓					(ARCHIVE)		
9	B24-1	06738		0906			↓	↓	↓		↓		
10	-2	06339		0908	ARCHIVE/HOLD		5				T22 Metals/TPHcc/SVOCs		
11	-3	06340		0910							(ARCHIVE)		
12	B28-1	06341		0936			↓	↓	↓		↓		
13	-2	06342		0932	ARCHIVE/HOLD		7				T22 Metals/TPHcc/VOCs/SVOCs/PCBs/(8081A) OCPs		
14	-3	06343	↓	0934							(ARCHIVE)		
15						↓	↓	↓	↓	↓	↓		
16													

Date & Time Stamp
LADWP
2013 MAY 29
RECD BY: ENV. CHEM LAB
Chem Lab COC Form #1
Revision: 08/01/02

>> COC# Label Here <<

Requester: G. FEDOSHE/K. DRAKE
Address: ____ Tel ____
Organization/Div. LADWP/Alta Environ.
Fax ____

Analyst: ____ Date ____
Approved: ____ Date ____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify STANDARD

	Printed Name	Signature	Time	Date
Sampled by:	K. DRAKE (ALTA)	[signature]	1000	5/29/13
Relinquished by:	K. DRAKE (ALTA)	[signature]	1030	5/29/13
Received by	T NGUYEN	[signature]	1040	5/29/13

DO NOT ANALYZE 2' SAMPLES — PLEASE ARCHIVE/HOLD PENDING ANALYSIS OF 1' + 3' SAMPLES.

ATTACHMENT #1

VOLATILE ORGANIC COMPOUNDS (VOC)

EPA METHOD 8260 B

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06217	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-1
LN06219	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-3
LN06229	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-1
LN06231	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-3
LN06335	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-1
LN06337	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-3
LN06341	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-1

Compounds	MDL ug/kg	PQL ug/kg	LN06217 Amount ug/kg	LN06219 Amount ug/kg	LN06229 Amount ug/kg	LN06231 Amount ug/kg	LN06335 Amount ug/kg	LN06337 Amount ug/kg	LN06341 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06217	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-1
LN06219	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-3
LN06229	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-1
LN06231	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-3
LN06335	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-1
LN06337	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-3
LN06341	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-1

Compounds	MDL ug/kg	PQL ug/kg	LN06217 Amount ug/kg	LN06219 Amount ug/kg	LN06229 Amount ug/kg	LN06231 Amount ug/kg	LN06335 Amount ug/kg	LN06337 Amount ug/kg	LN06341 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	104.0%	103.7%	102.7%	103.3%	102.3%	103.3%	102.7%
SURR: Dibromofluoromethane	80 - 120	97.0%	96.0%	95.0%	96.3%	95.3%	95.3%	95.3%
SURR: Toluene-d8	81 - 117	93.7%	92.3%	90.0%	92.3%	92.3%	92.3%	92.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06343	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-3

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN06343 Amount (ug/kg)
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
2-Butanone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
n-Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane (EDB)	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd
Hexachlorobutadiene	44	220.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06343	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-3

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN06343 Amount (ug/kg)
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Methyl iodide (Iodomethane)	20	100.0	nd
4-Methyl-2-pentanone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene (Phenylethylene)	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene (PCE)	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene (TCE)	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates (30 ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	103.7%
SURR: Dibromofluoromethane	80 - 120	95.0%
SURR: Toluene-d8	81 - 117	92.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

COC 13-1321

ENVIRONMENTAL LABORATORY DATA REPORT

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/28/2013	5/28/2013	6/3/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/28/2013	5/28/2013	6/3/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	102.0%
SURR: Dibromofluoromethane	80 - 120	96.7%
SURR: Toluene-d8	81 - 117	92.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

200006

Project No: 7600 TYRONE

(RWQCB LabForm10A:Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 6/3/13
BATCH #: LN06217 LN LN06217 LN06219 LN06229 LN06231 LN06335 LN06337 LN06341 LN06343
LAB SAMPLE I.D.: LN06217

ANALYTICAL METHOD: USEPA 8260
UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	25.3	84.3	30.0	25.9	86.3	2.3 %	59-172	22%
Benzene	ND	30.0	29.9	99.7	30.0	30.5	102	2.3 %	66-142	21%
Trichloroethylene	ND	30.0	30.8	103	30.0	31.3	104	0.97 %	62-137	24%
Toluene	ND	30.0	30.6	102	30.0	31.5	105	2.9 %	59-139	21%
Chlorobenzene	ND	30.0	35.7	119	30.0	36.6	122	2.5 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 6/3/13
SUPPLY SOURCE:
LOT NUMBER:
DATE OF SOURCE:

ANALYTICAL METHOD: USEPA 8260
LAB LCS I.D.: Q8087
UNIT: ug/kg

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	29.9	30	99.7	70 - 130
1,2-Dichloroethane	32.1	30	107.0	70 - 130
1,4-Dichlorobenzene	31.3	30	104.3	70 - 130
Benzene	28.9	30	96.3	70 - 130
Bromoform	33	30	110.0	70 - 130
Carbon Tetrachloride	27	30	90.0	70 - 130
Tetrachloroethylene	28.2	30	94.0	70 - 130
Trichloroethylene	27.2	30	90.7	70 - 130

Analyst: B. Tiu

Reviewed by: R. Gentallen

200007

ATTACHMENT #2

METALS/MERCURY

EPA METHOD 6010B/7471

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1326

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06329	5/29/13	5/29/13	6/5/13	7600 TYRONE, B23-1
LN06331	5/29/13	5/29/13	6/5/13	7600 TYRONE, B23-3
LN06335	5/29/13	5/29/13	6/5/13	7600 TYRONE, B27-1
LN06337	5/29/13	5/29/13	6/5/13	7600 TYRONE, B27-3
LN06338	5/29/13	5/29/13	6/5/13	7600 TYRONE, B24-1
LN06340	5/29/13	5/29/13	6/5/13	7600 TYRONE, B24-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06329 mg/kg	LN06331 mg/kg	LN06335 mg/kg	LN06337 mg/kg	LN06338 mg/kg	LN06340 mg/kg
Antimony	500	15	6010B	1.0	5.0	1	3.3J	4.0J	2.7J	3.8J	3.3J	4.2J
Arsenic	500	5	6010B	2.6	13.0	1	ND	ND	ND	ND	ND	ND
Barium	10000	100	6010B	3.7	18.5	1	218	300	190	256	205	296
Beryllium	75	0.75	6010B	0.7	3.50	1	ND	ND	ND	ND	ND	ND
Cadmium	100	1	6010B	0.6	3.0	1	3.3	4.0	3.1	3.6	3.2	4.1
Chromium (T)	500	5	6010B	1.4	7.0	1	20	23	18	23	19	23
Cobalt	8000	80	6010B	1.0	5.0	1	15	20	14	18	16	21
Copper	2500	25	6010B	1.6	8.0	1	21	22	14	20	18	22
Lead	1000	5	6010B	0.9	4.5	1	39	15	12	14	42	15
Molybdenum	3500	350	6010B	0.3	1.5	1	ND	ND	0.5J	ND	ND	ND
Nickel	2000	20	6010B	0.6	3.0	1	20	24	20	23	20	24
Selenium	100	1	6010B	1.6	8.0	1	ND	ND	ND	ND	ND	ND
Silver	500	5	6010B	1.5	7.5	1	ND	ND	ND	ND	ND	ND
Thallium	700	7	6010B	1.0	5.0	1	ND	ND	ND	ND	ND	ND
Vanadium	2400	24	6010B	1.8	9.00	1	31	38	30	35	30	37
Zinc	5000	250	6010B	1.9	9.50	1	124	79	59	74	93	78
Mercury	20	0.2	7471	0.00002	0.0001	1	0.0480	0.0210	0.0200	0.0200	0.0240	0.0230

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: KC/YC

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1326

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06341	5/29/13	5/29/13	6/5/13	7600 TYRONE, B28-1
LN06343	5/29/13	5/29/13	6/5/13	7600 TYRONE, B28-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06341 mg/kg	LN06343 mg/kg
Antimony	500	15	6010B	1.0	5.0	1	2.0J	4.0J
Arsenic	500	5	6010B	2.6	13.0	1	ND	ND
Barium	10000	100	6010B	3.7	18.5	1	99	263
Beryllium	75	0.75	6010B	0.7	3.50	1	ND	ND
Cadmium	100	1	6010B	0.6	3.0	1	1.8J	3.7
Chromium (T)	500	5	6010B	1.4	7.0	1	10	22
Cobalt	8000	80	6010B	1.0	5.0	1	7.8	19
Copper	2500	25	6010B	1.6	8.0	1	7.7J	21
Lead	1000	5	6010B	0.9	4.5	1	6.7	18
Molybdenum	3500	350	6010B	0.3	1.5	1	0.44J	ND
Nickel	2000	20	6010B	0.6	3.0	1	12.3	22
Selenium	100	1	6010B	1.6	8.0	1	ND	ND
Silver	500	5	6010B	1.5	7.5	1	ND	ND
Thallium	700	7	6010B	1.0	5.0	1	ND	ND
Vanadium	2400	24	6010B	1.8	9.0	1	19	35
Zinc	5000	250	6010B	1.9	9.5	1	36	78
Mercury	20	0.2	7471	0.00002	0.0001	1	0.0093	0.0190

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: KC/YC

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1326

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06337 Dup	05/29/13	5/29/13	6/5/13	7600 TYRONE, B27-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	Dup LN06337 (mg/kg)
Antimony	500	15	6010B	1.0	5.0	1	3.8J
Arsenic	500	5	6010B	2.6	13.0	1	ND
Barium	10000	100	6010B	3.7	18.5	1	249
Beryllium	75	0.75	6010B	0.7	3.50	1	ND
Cadmium	100	1	6010B	0.6	3.0	1	3.5
Chromium (T)	2500	5	6010B	1.4	7.0	1	21
Cobalt	8000	80	6010B	1.0	5.0	1	17
Copper	2500	25	6010B	1.6	8.0	1	19
Lead	1000	5	6010B	0.9	4.5	1	14
Molybdenum	3500	350	6010B	0.3	1.5	1	ND
Nickel	2000	20	6010B	0.6	3.0	1	22
Selenium	100	1	6010B	1.6	8.0	1	ND
Silver	500	5	6010B	1.5	7.5	1	ND
Thallium	700	7	6010B	1.0	5.0	1	ND
Vanadium	2400	24	6010B	1.8	9.0	1	34
Zinc	5000	250	6010B	1.9	9.5	1	71

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
R.L. - Report Limit
D. F. - Dilution Factor

** - exceed TTLC limit
* - exceed 10x STLC limit
J - concentration above MDL and below RL

Analyst: KC

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1326

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY	DATE	DATE	DATE									
LOG NO.	SAMPLED	RECEIVED	ANALYZED				SAMPLE DESCRIPTION					
LN06317	5/29/13	5/29/13	6/4/13			7600 TYRONE, B17-1						
LN06319	5/30/13	5/30/13	6/4/13			7600 TYRONE, B17-3						
LN06320	5/31/13	5/31/13	6/4/13			7600 TYRONE, B13-1						
LN06322	6/1/13	6/1/13	6/4/13			7600 TYRONE, B13-3						
LN06323	6/2/13	6/2/13	6/4/13			7600 TYRONE, B15-1						
LN06325	6/2/13	6/2/13	6/4/13			7600 TYRONE, B15-3						
	LIMIT	LIMIT										
	TTLC	STLC					LN06317	LN06319	LN06320	LN06322	LN06323	LN06325
METAL	(mg/kg)	(mg/l)	METHOD	MDL	RL	D. F.	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Arsenic	500	5	6010B	2.6	13.0	100	ND	ND	ND	ND	ND	ND

LABORATORY	DATE	DATE	DATE									
LOG NO.	SAMPLED	RECEIVED	ANALYZED				SAMPLE DESCRIPTION					
LN06326	5/29/13	5/29/13	6/4/13			7600 TYRONE, B16-1						
LN06328	5/30/13	5/30/13	6/4/13			7600 TYRONE, B16-3						
LN06332	5/31/13	5/31/13	6/4/13			7600 TYRONE, B14-1						
LN06334	6/1/13	6/1/13	6/4/13			7600 TYRONE, B14-3						
	LIMIT	LIMIT										
	TTLC	STLC					LN06326	LN06328	LN06332	LN06334		
METAL	(mg/kg)	(mg/l)	METHOD	MDL	RL	D. F.	mg/Kg	mg/Kg	mg/Kg	mg/Kg		
Arsenic	500	5	6010B	2.6	13.0	100	ND	ND	ND	ND		

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analayst: YC

ENVIRONMENTAL LABORATORY DATA REPORT

13-1326

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA METHOD 6010B

Sample Matrix: Soil

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06314	5/31/13	5/31/13	6/4/13	7600 TYRONE, B14-1
LN06316	6/1/13	6/1/13	6/4/13	7600 TYRONE, B14-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06314 mg/Kg	LN06316 mg/Kg				
Lead	1000	5	6010B	0.9	4.5	100	27.0	15.0				

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: YC

PROJECT: 7600 TYRONE

COC 13-1326

QA/QC Report

I. Blank Spike (BS) / Blank Spike Duplicate (BSD)

DATE ANALYZED: 06/05/13

ANALYTICAL METHOD USEPA 6010/7000

BATCH #: STTLCS-7753 (LN06329 LN06331 LN06337 LN06338 LN06340 LN06341 LN06343)

LAB SAMPLE I.D.: BLANK SOIL

UNIT: (Circle One) (mg/kg) mg/L

METAL	SAMPLE RESULT	SPIKE CONC	BS	%BS	(DUP) SPIKE CONC	BSD	%BSD	RPD	BS/BSD % REC. LIMIT	RPD LIMIT
Antimony	ND	200	153	76.5	200	147	73.5	4.0%	14 - 89	< 30
Arsenic	ND	200	203	102	200	203	102	0.0%	70 - 130	< 30
Barium	---	---	---	---	---	---	---	---	---	---
Beryllium	ND	200	189	94.5	200	191	95.5	1.1%	70 - 130	< 30
Cadmium	ND	200	196	98.0	200	194	97.0	1.0%	70 - 130	< 30
Chromium (T)	ND	200	193	96.5	200	196	98.0	1.5%	70 - 130	< 30
Cobalt	ND	200	206	103	200	203	102	1.0%	70 - 130	< 30
Copper	ND	200	190	95.0	200	195	97.5	2.6%	70 - 130	< 30
Lead	ND	200	199	99.5	200	199	99.5	0.0%	70 - 130	< 30
Molybdenum	ND	200	201	100	200	196	98.0	2.0%	70 - 130	< 30
Nickel	ND	200	197	98.5	200	199	99.5	1.0%	70 - 130	< 30
Selenium	ND	200	191	95.5	200	192	96.0	0.5%	70 - 130	< 30
Silver	---	---	---	---	---	---	---	---	---	---
Thallium	ND	200	171	85.5	200	174	87.0	1.7%	70 - 130	< 30
Vanadium	ND	200	199	99.5	200	202	101	1.5%	70 - 130	< 30
Zinc	ND	200	200	100	200	200	100	0.0%	70 - 130	< 30

BS = Blank Spike BSD = Blank Spike Duplicate RPD = Relative Percent Difference
%BS = Percent Recovery of Blank Spike %BSD = Percent Recovery of Blank Spike Duplicate

Analyst: KC

PROJECT: 7600 TYRONE

COC 13-1326

QA/QC Report

II. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE ANALYZED: 06/06/13

ANALYTICAL METHOD USEPA 6010/7000

BATCH #: STTLCS-7753 (LN06329 LN06331 LN06337 LN06338 LN06340 LN06341 LN06343)

LAB SAMPLE I.D.: LN06337

UNIT: (Circle One) (mg/kg) mg/L

METAL	SAMPLE RESULT	SPIKE CONC	MS	%MS	(DUP) SPIKE CONC	MSD	%MSD	RPD	MS/MSD % REC. LIMIT	RPD LIMIT
Antimony	3.8	200	49	22.6	200	39	17.6	24.9%	14 - 89	< 30
Arsenic	ND	200	188	94.0	200	178	89.0	5.5%	70 - 130	< 30
Barium	---	---	---	---	---	---	---	---	---	---
Beryllium	ND	200	180	90.0	200	186	93.0	3.3%	70 - 130	< 30
Cadmium	3.6	200	174	85.2	200	172	84.2	1.2%	70 - 130	< 30
Chromium (T)	23	200	194	85.5	200	203	90.0	5.1%	70 - 130	< 30
Cobalt	18	200	193	87.5	200	193	87.5	0.0%	70 - 130	< 30
Copper	20	200	198	89.0	200	210	95.0	6.5%	70 - 130	< 30
Lead	14	200	175	80.5	200	176	81.0	0.6%	70 - 130	< 30
Molybdenum	ND	200	173	86.5	200	170	85.0	1.7%	70 - 130	< 30
Nickel	23	200	198	87.5	200	208	92.5	5.6%	70 - 130	< 30
Selenium	ND	200	179	89.5	200	178	89.0	0.6%	70 - 130	< 30
Silver	---	---	---	---	---	---	---	---	---	---
Thallium	ND	200	139	69.5	200	138	69.0	0.7%	70 - 130	< 30
Vanadium	35	200	212	88.5	200	226	95.5	7.6%	70 - 130	< 30
Zinc	74	200	247	86.5	200	260	93.0	7.2%	70 - 130	< 30

MS = Matrix Spike MSD = Matrix Spike Duplicate RPD = Relative Percent Difference
%MS = Percent Recovery of Matrix Spike %MSD = Percent Recovery of Matrix Spike Duplicate

Analyst: KC

PROJECT: 7600 TYRONE **COC 13-1326**

III. Calibration and Laboratory Quality Control Check Sample (LCS)

DATE ANALYZED: 06/05/13 ANALYTICAL USEPA 6010/7000

SUPPLY SOURCE: VHG LAB LCS I.D.: Q8732

LOT NUMBER: 201-0040 UNIT: (Circle One) (mg/kg) mg/L

METAL	LCS RESULTS mg/kg	TRUE VALUE mg/kg	% Recovery	Acceptable Range % Recovery
Antimony	68	80	85.0	48 - 84
Arsenic	420	400	105	70 - 130
Barium	387	400	96.8	70 - 130
Beryllium	10	12.5	80.0	70 - 130
Cadmium	11	12.5	88.0	70 - 130
Chromium (T)	79	80	98.8	70 - 130
Cobalt	43	50	86.0	70 - 130
Copper	81	80	101	70 - 130
Lead	85	80	106	70 - 130
Molybdenum	---	---	---	---
Nickel	82	80	102	70 - 130
Selenium	197	200	98.5	70 - 130
Silver	10.1	12.5	80.8	70 - 130
Thallium	70	80	87.5	70 - 130
Vanadium	89	80	111	70 - 130
Zinc	203	200	102	70 - 130

Analyst: KC

Reviewed by: JAC 6/6/13

ATTACHMENT #3

TOTAL EXTRACTABLE PETROLEUM
HYDROCARBONS (TEPH)
MOTOR OIL (MO)
DIESEL RANGE ORGANIC (DRO)

EPA METHOD 8015M

COC No. 13-1326

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN06329	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B23-1	GC Agilent	053113
LN06331	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B23-3	GC Agilent	053113
LN06335	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B27-1	GC Agilent	053113
LN06337	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B27-3	GC Agilent	053113
LN06338	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B24-1	GC Agilent	053113
LN06340	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B24-3	GC Agilent	053113
LN06341	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B28-1	GC Agilent	053113

	MDL / PQL mg/kg	MB mg/kg	LN06329 mg/kg	LN06331 mg/kg	LN06335 mg/kg	LN06337 mg/kg	LN06338 mg/kg	LN06340 mg/kg	LN06341 mg/kg
Dilution Factor		1	1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	ND	4.2 J	4.0 J	13.1 J	60.6	4.4 J	ND
DRO (C10 - C28)	29 / 145	ND	ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	ND	ND	ND	ND	60.6 J	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	90.5%	96.5%	96.0%	106%	94.0%	100%	96.5%	80.0%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1326

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN06343	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B28-3	GC Agilent	053113

	MDL / PQL mg/kg		LN06343 mg/kg
Dilution Factor			1
TEPH (C9 - C36)	4 / 20		ND
DRO (C10 - C28)	29 / 145		ND
MOTOR OIL	35 / 175		ND
Quality Control Data			
Surrogate/Internal Std.	% ACP		% RC
1-Chlorooctadecane	(60 - 140)		107%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1326

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN06216 DUP	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B22-3	GC Agilent	053113

	MDL / PQL mg/kg		LN06216 DUP mg/kg
Dilution Factor			1
TEPH (C9 - C36)	4 / 20		ND
DRO (C10 - C28)	29 / 145		ND
MOTOR OIL	35 / 175		ND
Quality Control Data			
Surrogate/Internal Std.	% ACP		% RC
1-Chlorooctadecane	(60 - 140)		88.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1326

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL
Project: 7600 TYRONE

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8245 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/kg

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		053113	5/31/2013	280	209	74.6	70 - 130
DRO		053113	5/31/2013	500	379	75.8	70 - 130
MO		053113	5/31/2013	500	436	87.2	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan
6/4/13

ATTACHMENT #4

GASOLINE RANGE ORGANICS (GRO)

EPA METHOD 8015B

COC No. 13-1326

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN06329	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B23-1	AG gas	20130530
LN06331	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B23-3	AG gas	20130530
LN06335	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B27-1	AG gas	20130530
LN06337	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B27-3	AG gas	20130530
LN06338	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B24-1	AG gas	20130530
LN06340	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B24-3	AG gas	20130530
LN06341	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B28-1	AG gas	20130530

	MDL / PQL mg/kg	MB mg/kg	LN06329 mg/kg	LN06331 mg/kg	LN06335 mg/kg	LN06337 mg/kg	LN06338 mg/kg	LN06340 mg/kg	LN06341 mg/kg
Dilution Factor	1	1	1	1	1	1	4**	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	109%	107%	108%	108%	108%	107%	108%	108%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

** *Sample was analyzed at higher dilution : Sample extract was either exhibiting high turbidity or highly colored*

MDL/PQL at higher dilution is calculted as MDL/PQL (dilution x1) multipied by the dilution factor

COC No. 13-1326

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION			INSTR ID	RUN LOG/BATCH	
LN06343	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B28-3			AG gas	20130530	
	MDL / PQL mg/kg	MB mg/kg	LN06343 mg/kg							
Dilution Factor	1	1	1							
Gasoline (GRO)	1.1 / 5.5	ND	ND							
Quality Control Data										
Surrogate/Internal Std.	% ACP	% RC	%RC							
1, 2 Dichlorobenzene-d4	(70 - 130)	109%	108%							

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

ENVIRONMENTAL LABORATORY

QA/QC REPORT
GRO (Gasoline Range Organics)

Sample Matrix: SOIL
Project: 7600 TYRONE

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)
Reporting Unit: mg/kg

SAMPLE	BATCH	SAMPLE	SPIKE						MS/MSD	RPD
LOG NO.	QC	CONC	CONC	MS	% MS	MSD	% MSD	RPD	% ACP	ACP
LN06205	20130530	ND	22.0	22.4	102%	22.9	104%	2.2%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)
LCS Log No. Q8637

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130530	5/30/2013	22.0	20.9	95.0	70 - 130

Analyzed by *B. Estrada*
Reviewed by *R. Gentallan* 6/4/13

ATTACHMENT #5

POLYCHLORINATED BIPHENYLS (PCBs)

EPA Method 8082

ENVIRONMENTAL LABORATORY DATA REPORT

ANALYTICAL RESULT FOR PCBs by EPA600/SR-94/112/8082
(Polychlorinated Biphenyls)
Sample Matrix: Soil (Low Level)

LABORATORY LOG NO	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06329	5/29/2013	5/29/2013	5/30/2013	5/31/2013	
LN06331	5/29/2013	5/29/2013	5/30/2013	5/31/2013	
LN06335	5/29/2013	5/29/2013	5/30/2013	5/31/2013	
LN06337	5/29/2013	5/29/2013	5/30/2013	5/31/2013	
LN06341	5/29/2013	5/29/2013	5/30/2013	6/4/2013	
LN06343	5/29/2013	5/29/2013	5/30/2013	6/4/2013	

PARAMETERS	MDL/PQL (mg/kg)	LN06329 (mg/kg)	LN06331 (mg/kg)	LN06335 (mg/kg)	LN06337 (mg/kg)	LN06341 (mg/kg)	LN06343 (mg/kg)	
PCB - 1221	0.07/0.2	ND	ND	ND	ND	ND	ND	
PCB - 1232	0.07/0.2	ND	ND	ND	ND	ND	ND	
PCB - 1242	0.07/0.2	ND	ND	ND	ND	ND	ND	
PCB - 1248	0.07/0.2	ND	ND	ND	ND	ND	ND	
PCB - 1254	0.07/0.2	ND	ND	ND	ND	ND	ND	
PCB - 1260	0.07/0.2	ND	ND	ND	ND	ND	ND	
SURROGATE PARAMETERS	QC LIMIT %	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	
DECACHLOROBIPHENYL	70 - 130	99	94	102	106	95	93	

MDL - Method Detection Limit

ND - Not Detected; below method detection limit

Analyst: D. Wong

Reviewed by: 6/14/13

Project Name : Tyrone Property, 7600 Tyrone Ave., Van Nuys, CA

QA/QC Report

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

ANALYTICAL METHOD: USEPA 600/SR-94/112
USEPA 8082

DATE ANALYZED: 06/04/13
BATCH #: 53013
LAB SAMPLE I.D.: LN06364

UNIT: mg/kg

PARAMETERS	SAMPLE RESULT	SPIKE CONC	MS	%MS	(DUP) SPIKE CONC	MSD	%MSD	RPD	MS/MSD % REC LIMIT	% RPD LIMIT
PCB-1242	0.0	25.0	20.8	83	25.0	20.3	81	2%	70 - 130	30
PCB-1260	0.0	25.0	NR	NR	25.0	NR	NR	NR	70 - 130	30

NR = Not reported dut to matrix interference.

MS - Matrix Spike *MSD - Matrix Spike Dupllicate*
%MS - Percent Recovery of Matrix Spike

RPD - Relative Percent Difference
%MSD - Percent Recovery of Matrix Spike Duplicate

Reviewed by: 6/4/13

Project Name : Tyrone Property, 7600 Tyrone Ave., Van Nuys, CA

II. Laboratory Control Check Sample (LCS)

DATE ANALYZED: 06/04/13
BATCH No. 053013

ANALYTICAL METHOD: USEPA 600/SR-94/112
UNIT: mg/kg USEPA 8082

PARAMETERS	TRUE CONC	LCS RESULT	%RC	DUP RESULT	%RC	ACCEPTANCE LIMITS %RC
PCB - 1242	25.0	19.6	78	NA	NA	80 - 120
PCB - 1260	25.0	21.9	88	NA	NA	80 - 120

Note: Low LCS recovery for 1242 (78%). Although LCS is 2% below acceptance limit, it should have no significant effect on the quality of this batch of analyses.

%RC - Percent Recovery
NA - Not Analyzed
Batch - ten samples per batch

Reviewed by: 6/4/13

ATTACHMENT #6

PESTICIDES

EPA METHOD 8081

CERTIFICATE OF ANALYSIS

Client:	LADWP - Environmental Laboratory 1630 North Main Street, Bldg. 7, Rm 311 Los Angeles, CA 90012	**Report Date:**	06/13/13 15:54
		Received Date:	05/30/13 09:50
		Turn Around:	5 workdays
Attention:	Kevin Han	**Work Order #:**	3E30013
Phone:	213-367-7267		
Fax:	(213) 367-7285		47055-2, COC #13-1321,26
		Client Project:	7600 Tyrone Ave,COC #13-1321,26, WO#

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Kevin Han :

Enclosed are the results of analyses for samples received 05/30/13 09:50 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Kim G Tu
Project Manager

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
LN06208	Client		3E30013-01	Solid	05/28/13 08:10
LN06210	Client		3E30013-02	Solid	05/28/13 08:14
LN06232	Client		3E30013-03	Solid	05/28/13 09:50
LN06234	Client		3E30013-04	Solid	05/28/13 09:54
LN06250	Client		3E30013-05	Solid	05/28/13 10:50
LN06252	Client		3E30013-06	Solid	05/28/13 10:54
LN06320	Client		3E30013-07	Solid	05/29/13 07:45
LN06322	Client		3E30013-08	Solid	05/29/13 07:49
LN06323	Client		3E30013-09	Solid	05/29/13 08:00
LN06325	Client		3E30013-10	Solid	05/29/13 08:04
LN06326	Client		3E30013-11	Solid	05/29/13 08:10
LN06328	Client		3E30013-12	Solid	05/29/13 08:14
LN06332	Client		3E30013-13	Solid	05/29/13 08:40
LN06334	Client		3E30013-14	Solid	05/29/13 08:44
LN06341	Client		3E30013-15	Solid	05/29/13 09:30
LN06343	Client		3E30013-16	Solid	05/29/13 09:34

ANALYSES

Chlorinated Pesticides and/or PCBs

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LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-01 **LN06208**

Sampled: 05/28/13 08:10 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 17:02 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	23	23	23	ug/kg	1	
2,4'-DDE	ND	23	23	23	ug/kg	1	
2,4'-DDT	ND	23	23	23	ug/kg	1	
4,4'-DDD	ND	4.5	23	23	ug/kg	1	
4,4'-DDE	ND	7.2	23	23	ug/kg	1	
4,4'-DDT	ND	5.1	23	23	ug/kg	1	
Aldrin	ND	11	23	23	ug/kg	1	
alpha-BHC	ND	14	23	23	ug/kg	1	
alpha-Chlordane	ND	12	23	23	ug/kg	1	
beta-BHC	ND	7.3	23	23	ug/kg	1	
Chlordane (tech)	ND	95	470	470	ug/kg	1	
cis-Nonachlor	ND	23	23	23	ug/kg	1	
DCPA	ND	23	23	23	ug/kg	1	
delta-BHC	ND	5.3	23	23	ug/kg	1	
Dieldrin	ND	7.0	23	23	ug/kg	1	
Endosulfan I	ND	5.3	23	23	ug/kg	1	
Endosulfan II	ND	3.0	23	23	ug/kg	1	
Endosulfan sulfate	ND	5.1	23	23	ug/kg	1	
Endrin	ND	12	23	23	ug/kg	1	
Endrin aldehyde	ND	6.5	23	23	ug/kg	1	
Endrin ketone	ND	4.3	23	23	ug/kg	1	
gamma-BHC (Lindane)	ND	12	23	23	ug/kg	1	
gamma-Chlordane	ND	9.3	23	23	ug/kg	1	
Heptachlor	ND	13	23	23	ug/kg	1	
Heptachlor epoxide	ND	8.5	23	23	ug/kg	1	
Kepone	ND	200	470	470	ug/kg	1	
Methoxychlor	ND	5.1	23	23	ug/kg	1	
Mirex	ND	7.3	23	23	ug/kg	1	
Oxychlordane	ND	23	23	23	ug/kg	1	
Toxaphene	ND	80	700	700	ug/kg	1	
trans-Nonachlor	ND	23	23	23	ug/kg	1	
Surr: Decachlorobiphenyl	*68 %*	Conc:*158*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*63 %*	Conc:*145*		*18-112*	%		

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Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-02 **LN06210**

Sampled: 05/28/13 08:14 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A | Batch: W3E1479 | Prepared: 05/31/13 07:26 | Analyzed: 06/04/13 17:30 | Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	ND	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.7	24	24	ug/kg	1	
4,4'-DDE	ND	7.5	24	24	ug/kg	1	
4,4'-DDT	ND	5.4	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	13	24	24	ug/kg	1	
beta-BHC	ND	7.7	24	24	ug/kg	1	
Chlordane (tech)	ND	100	490	490	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.6	24	24	ug/kg	1	
Dieldrin	ND	7.3	24	24	ug/kg	1	
Endosulfan I	ND	5.6	24	24	ug/kg	1	
Endosulfan II	ND	3.1	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.4	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.8	24	24	ug/kg	1	
Endrin ketone	ND	4.5	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	13	24	24	ug/kg	1	
gamma-Chlordane	ND	9.8	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.9	24	24	ug/kg	1	
Kepone	ND	210	490	490	ug/kg	1	
Methoxychlor	ND	5.4	24	24	ug/kg	1	
Mirex	ND	7.6	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	ND	84	730	730	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*61 %*	Conc:*148*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*67 %*	Conc:*162*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-03 LN06232

Sampled: 05/28/13 09:50 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 17:58 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	21	21	21	ug/kg	1	
2,4'-DDE	ND	21	21	21	ug/kg	1	
2,4'-DDT	ND	21	21	21	ug/kg	1	
4,4'-DDD	ND	4.1	21	21	ug/kg	1	
4,4'-DDE	ND	6.5	21	21	ug/kg	1	
4,4'-DDT	ND	4.6	21	21	ug/kg	1	
Aldrin	ND	9.8	21	21	ug/kg	1	
alpha-BHC	ND	12	21	21	ug/kg	1	
alpha-Chlordane	ND	11	21	21	ug/kg	1	
beta-BHC	ND	6.7	21	21	ug/kg	1	
Chlordane (tech)	ND	86	420	420	ug/kg	1	
cis-Nonachlor	ND	21	21	21	ug/kg	1	
DCPA	ND	21	21	21	ug/kg	1	
delta-BHC	ND	4.8	21	21	ug/kg	1	
Dieldrin	ND	6.3	21	21	ug/kg	1	
Endosulfan I	ND	4.8	21	21	ug/kg	1	
Endosulfan II	ND	2.7	21	21	ug/kg	1	
Endosulfan sulfate	ND	4.6	21	21	ug/kg	1	
Endrin	ND	11	21	21	ug/kg	1	
Endrin aldehyde	ND	5.9	21	21	ug/kg	1	
Endrin ketone	ND	3.9	21	21	ug/kg	1	
gamma-BHC (Lindane)	ND	11	21	21	ug/kg	1	
gamma-Chlordane	ND	8.4	21	21	ug/kg	1	
Heptachlor	ND	11	21	21	ug/kg	1	
Heptachlor epoxide	ND	7.7	21	21	ug/kg	1	
Kepone	ND	190	420	420	ug/kg	1	
Methoxychlor	ND	4.6	21	21	ug/kg	1	
Mirex	ND	6.6	21	21	ug/kg	1	
Oxychlordane	ND	21	21	21	ug/kg	1	
Toxaphene	ND	72	630	630	ug/kg	1	
trans-Nonachlor	ND	21	21	21	ug/kg	1	
Surr: Decachlorobiphenyl	*64 %*	Conc:*135*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*77 %*	Conc:*163*		*18-112*	%		

700005

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Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-04 LN06234

Sampled: 05/28/13 09:54 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A | Batch: W3E1479 | Prepared: 05/31/13 07:26 | Analyzed: 06/04/13 18:26 | Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	ND	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.6	24	24	ug/kg	1	
4,4'-DDE	ND	7.4	24	24	ug/kg	1	
4,4'-DDT	ND	5.3	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	12	24	24	ug/kg	1	
beta-BHC	ND	7.6	24	24	ug/kg	1	
Chlordane (tech)	ND	98	480	480	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.5	24	24	ug/kg	1	
Dieldrin	ND	7.2	24	24	ug/kg	1	
Endosulfan I	ND	5.5	24	24	ug/kg	1	
Endosulfan II	ND	3.1	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.3	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.7	24	24	ug/kg	1	
Endrin ketone	ND	4.4	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	13	24	24	ug/kg	1	
gamma-Chlordane	ND	9.6	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.7	24	24	ug/kg	1	
Kepone	ND	210	480	480	ug/kg	1	
Methoxychlor	ND	5.3	24	24	ug/kg	1	
Mirex	ND	7.5	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	ND	82	720	720	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*59 %*	Conc:*141*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*67 %*	Conc:*161*		*18-112*	%		

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Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-05 LN06250

Sampled: 05/28/13 10:50 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 18:55 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	23	23	23	ug/kg	1	
2,4'-DDE	ND	23	23	23	ug/kg	1	
2,4'-DDT	ND	23	23	23	ug/kg	1	
4,4'-DDD	ND	4.4	23	23	ug/kg	1	
4,4'-DDE	ND	7.1	23	23	ug/kg	1	
4,4'-DDT	ND	5.0	23	23	ug/kg	1	
Aldrin	ND	11	23	23	ug/kg	1	
alpha-BHC	ND	13	23	23	ug/kg	1	
alpha-Chlordane	ND	12	23	23	ug/kg	1	
beta-BHC	ND	7.2	23	23	ug/kg	1	
Chlordane (tech)	ND	94	460	460	ug/kg	1	
cis-Nonachlor	ND	23	23	23	ug/kg	1	
DCPA	ND	23	23	23	ug/kg	1	
delta-BHC	ND	5.2	23	23	ug/kg	1	
Dieldrin	ND	6.9	23	23	ug/kg	1	
Endosulfan I	ND	5.2	23	23	ug/kg	1	
Endosulfan II	ND	2.9	23	23	ug/kg	1	
Endosulfan sulfate	ND	5.0	23	23	ug/kg	1	
Endrin	ND	12	23	23	ug/kg	1	
Endrin aldehyde	ND	6.4	23	23	ug/kg	1	
Endrin ketone	ND	4.2	23	23	ug/kg	1	
gamma-BHC (Lindane)	ND	12	23	23	ug/kg	1	
gamma-Chlordane	ND	9.2	23	23	ug/kg	1	
Heptachlor	ND	12	23	23	ug/kg	1	
Heptachlor epoxide	ND	8.3	23	23	ug/kg	1	
Kepone	ND	200	460	460	ug/kg	1	
Methoxychlor	ND	5.0	23	23	ug/kg	1	
Mirex	ND	7.2	23	23	ug/kg	1	
Oxychlordane	ND	23	23	23	ug/kg	1	
Toxaphene	ND	79	690	690	ug/kg	1	
trans-Nonachlor	ND	23	23	23	ug/kg	1	
Surr: Decachlorobiphenyl	*64 %*	Conc:*146*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*65 %*	Conc:*148*		*18-112*	%		

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LADWP - Environmental Laboratory
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Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-06 **LN06252**

Sampled: 05/28/13 10:54 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A | Batch: W3E1479 | Prepared: 05/31/13 07:26 | Analyzed: 06/04/13 19:23 | Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	23	23	23	ug/kg	1	
2,4'-DDE	ND	23	23	23	ug/kg	1	
2,4'-DDT	ND	23	23	23	ug/kg	1	
4,4'-DDD	ND	4.4	23	23	ug/kg	1	
4,4'-DDE	ND	7.1	23	23	ug/kg	1	
4,4'-DDT	ND	5.1	23	23	ug/kg	1	
Aldrin	ND	11	23	23	ug/kg	1	
alpha-BHC	ND	13	23	23	ug/kg	1	
alpha-Chlordane	ND	12	23	23	ug/kg	1	
beta-BHC	ND	7.3	23	23	ug/kg	1	
Chlordane (tech)	ND	94	460	460	ug/kg	1	
cis-Nonachlor	ND	23	23	23	ug/kg	1	
DCPA	ND	23	23	23	ug/kg	1	
delta-BHC	ND	5.3	23	23	ug/kg	1	
Dieldrin	ND	6.9	23	23	ug/kg	1	
Endosulfan I	ND	5.3	23	23	ug/kg	1	
Endosulfan II	ND	2.9	23	23	ug/kg	1	
Endosulfan sulfate	ND	5.1	23	23	ug/kg	1	
Endrin	ND	12	23	23	ug/kg	1	
Endrin aldehyde	ND	6.5	23	23	ug/kg	1	
Endrin ketone	ND	4.2	23	23	ug/kg	1	
gamma-BHC (Lindane)	ND	12	23	23	ug/kg	1	
gamma-Chlordane	ND	9.2	23	23	ug/kg	1	
Heptachlor	ND	13	23	23	ug/kg	1	
Heptachlor epoxide	ND	8.4	23	23	ug/kg	1	
Kepone	ND	200	460	460	ug/kg	1	
Methoxychlor	ND	5.1	23	23	ug/kg	1	
Mirex	ND	7.2	23	23	ug/kg	1	
Oxychlordane	ND	23	23	23	ug/kg	1	
Toxaphene	ND	79	690	690	ug/kg	1	
trans-Nonachlor	ND	23	23	23	ug/kg	1	
Surr: Decachlorobiphenyl	*63 %*	Conc:*146*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*64 %*	Conc:*147*		*18-112*	%		

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Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-07 **LN06320**

Sampled: 05/29/13 07:45 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 19:51 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	21	21	21	ug/kg	1	
2,4'-DDE	ND	21	21	21	ug/kg	1	
2,4'-DDT	ND	21	21	21	ug/kg	1	
4,4'-DDD	ND	4.0	21	21	ug/kg	1	
4,4'-DDE	**40**	6.3	21	21	ug/kg	1	
4,4'-DDT	**10**	4.5	21	21	ug/kg	1	J
Aldrin	ND	9.5	21	21	ug/kg	1	
alpha-BHC	ND	12	21	21	ug/kg	1	
alpha-Chlordane	ND	11	21	21	ug/kg	1	
beta-BHC	ND	8.5	21	21	ug/kg	1	
Chlordane (tech)	ND	84	410	410	ug/kg	1	
cis-Nonachlor	ND	21	21	21	ug/kg	1	
DCPA	ND	21	21	21	ug/kg	1	
delta-BHC	ND	4.7	21	21	ug/kg	1	
Dieldrin	ND	6.2	21	21	ug/kg	1	
Endosulfan I	ND	4.7	21	21	ug/kg	1	
Endosulfan II	ND	2.6	21	21	ug/kg	1	
Endosulfan sulfate	ND	4.5	21	21	ug/kg	1	
Endrin	ND	11	21	21	ug/kg	1	
Endrin aldehyde	ND	5.8	21	21	ug/kg	1	
Endrin ketone	ND	3.8	21	21	ug/kg	1	
gamma-BHC (Lindane)	ND	11	21	21	ug/kg	1	
gamma-Chlordane	ND	8.2	21	21	ug/kg	1	
Heptachlor	ND	11	21	21	ug/kg	1	
Heptachlor epoxide	ND	7.5	21	21	ug/kg	1	
Kepone	ND	180	410	410	ug/kg	1	
Methoxychlor	ND	4.5	21	21	ug/kg	1	
Mirex	ND	6.4	21	21	ug/kg	1	
Oxychlordane	ND	21	21	21	ug/kg	1	
Toxaphene	ND	71	620	620	ug/kg	1	
trans-Nonachlor	ND	21	21	21	ug/kg	1	
Surr: Decachlorobiphenyl	*66 %*	Conc:*135*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*70 %*	Conc:*144*		*18-112*	%		

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700009

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-08 LN06322

Sampled: 05/29/13 07:49 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 20:20 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	25	25	25	ug/kg	1	
2,4'-DDE	ND	25	25	25	ug/kg	1	
2,4'-DDT	ND	25	25	25	ug/kg	1	
4,4'-DDD	ND	4.8	25	25	ug/kg	1	
4,4'-DDE	ND	7.7	25	25	ug/kg	1	
4,4'-DDT	ND	5.5	25	25	ug/kg	1	
Aldrin	ND	12	25	25	ug/kg	1	
alpha-BHC	ND	15	25	25	ug/kg	1	
alpha-Chlordane	ND	13	25	25	ug/kg	1	
beta-BHC	ND	7.9	25	25	ug/kg	1	
Chlordane (tech)	ND	100	500	500	ug/kg	1	
cis-Nonachlor	ND	25	25	25	ug/kg	1	
DCPA	ND	25	25	25	ug/kg	1	
delta-BHC	ND	5.7	25	25	ug/kg	1	
Dieldrin	ND	7.5	25	25	ug/kg	1	
Endosulfan I	ND	5.7	25	25	ug/kg	1	
Endosulfan II	ND	3.2	25	25	ug/kg	1	
Endosulfan sulfate	ND	5.5	25	25	ug/kg	1	
Endrin	ND	13	25	25	ug/kg	1	
Endrin aldehyde	ND	7.0	25	25	ug/kg	1	
Endrin ketone	ND	4.6	25	25	ug/kg	1	
gamma-BHC (Lindane)	ND	13	25	25	ug/kg	1	
gamma-Chlordane	ND	10	25	25	ug/kg	1	
Heptachlor	ND	14	25	25	ug/kg	1	
Heptachlor epoxide	ND	9.1	25	25	ug/kg	1	
Kepone	ND	220	500	500	ug/kg	1	
Methoxychlor	ND	5.5	25	25	ug/kg	1	
Mirex	ND	7.8	25	25	ug/kg	1	
Oxychlordane	ND	25	25	25	ug/kg	1	
Toxaphene	ND	85	750	750	ug/kg	1	
trans-Nonachlor	ND	25	25	25	ug/kg	1	
Surr: Decachlorobiphenyl	*63 %*	Conc:*156*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*65 %*	Conc:*162*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-09 LN06323

Sampled: 05/29/13 08:00 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 20:48 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	ND	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.7	24	24	ug/kg	1	
4,4'-DDE	ND	7.5	24	24	ug/kg	1	
4,4'-DDT	ND	5.3	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	13	24	24	ug/kg	1	
beta-BHC	ND	7.7	24	24	ug/kg	1	
Chlordane (tech)	ND	99	490	490	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.5	24	24	ug/kg	1	
Dieldrin	ND	7.3	24	24	ug/kg	1	
Endosulfan I	ND	5.5	24	24	ug/kg	1	
Endosulfan II	ND	3.1	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.3	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.8	24	24	ug/kg	1	
Endrin ketone	ND	4.5	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	13	24	24	ug/kg	1	
gamma-Chlordane	ND	9.7	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.8	24	24	ug/kg	1	
Kepone	ND	210	490	490	ug/kg	1	
Methoxychlor	ND	5.3	24	24	ug/kg	1	
Mirex	ND	7.6	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	ND	83	730	730	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*65 %*	Conc:*157*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*79 %*	Conc:*191*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WC#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-10 **LN06325**

Sampled: 05/29/13 08:04 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A | Batch: W3E1479 | Prepared: 05/31/13 07:26 | Analyzed: 06/04/13 23:38 | Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	23	23	23	ug/kg	1	
2,4'-DDE	ND	23	23	23	ug/kg	1	
2,4'-DDT	ND	23	23	23	ug/kg	1	
4,4'-DDD	ND	4.5	23	23	ug/kg	1	
4,4'-DDE	**15**	7.2	23	23	ug/kg	1	J
4,4'-DDT	**7.8**	5.2	23	23	ug/kg	1	J
Aldrin	ND	11	23	23	ug/kg	1	
alpha-BHC	ND	14	23	23	ug/kg	1	
alpha-Chlordane	ND	12	23	23	ug/kg	1	
beta-BHC	ND	7.4	23	23	ug/kg	1	
Chlordane (tech)	ND	98	470	470	ug/kg	1	
cis-Nonachlor	ND	23	23	23	ug/kg	1	
DCPA	ND	23	23	23	ug/kg	1	
delta-BHC	ND	5.4	23	23	ug/kg	1	
Dieldrin	ND	7.0	23	23	ug/kg	1	
Endosulfan I	ND	5.4	23	23	ug/kg	1	
Endosulfan II	ND	3.0	23	23	ug/kg	1	
Endosulfan sulfate	ND	5.2	23	23	ug/kg	1	
Endrin	ND	13	23	23	ug/kg	1	
Endrin aldehyde	ND	6.6	23	23	ug/kg	1	
Endrin ketone	ND	4.3	23	23	ug/kg	1	
gamma-BHC (Lindane)	ND	12	23	23	ug/kg	1	
gamma-Chlordane	ND	9.4	23	23	ug/kg	1	
Heptachlor	ND	13	23	23	ug/kg	1	
Heptachlor epoxide	ND	8.5	23	23	ug/kg	1	
Kepone	ND	210	470	470	ug/kg	1	
Methoxychlor	ND	5.2	23	23	ug/kg	1	
Mirex	ND	7.3	23	23	ug/kg	1	
Oxychlordane	ND	23	23	23	ug/kg	1	
Toxaphene	ND	80	700	700	ug/kg	1	
trans-Nonachlor	ND	23	23	23	ug/kg	1	
Surr: Decachlorobiphenyl	*64 %*	Conc:*150*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*65 %*	Conc:*152*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-11 **LN06326**

Sampled: 05/29/13 08:10 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/05/13 00:06 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	22	22	22	ug/kg	1	
2,4'-DDE	ND	22	22	22	ug/kg	1	
2,4'-DDT	ND	22	22	22	ug/kg	1	
4,4'-DDD	ND	4.2	22	22	ug/kg	1	
4,4'-DDE	ND	6.8	22	22	ug/kg	1	
4,4'-DDT	ND	4.8	22	22	ug/kg	1	
Aldrin	ND	10	22	22	ug/kg	1	
alpha-BHC	ND	13	22	22	ug/kg	1	
alpha-Chlordane	ND	11	22	22	ug/kg	1	
beta-BHC	ND	6.9	22	22	ug/kg	1	
Chlordane (tech)	ND	89	440	440	ug/kg	1	
cis-Nonachlor	ND	22	22	22	ug/kg	1	
DCPA	ND	22	22	22	ug/kg	1	
delta-BHC	ND	5.0	22	22	ug/kg	1	
Dieldrin	ND	6.6	22	22	ug/kg	1	
Endosulfan I	ND	5.0	22	22	ug/kg	1	
Endosulfan II	ND	2.8	22	22	ug/kg	1	
Endosulfan sulfate	ND	4.8	22	22	ug/kg	1	
Endrin	ND	12	22	22	ug/kg	1	
Endrin aldehyde	ND	6.1	22	22	ug/kg	1	
Endrin ketone	ND	4.0	22	22	ug/kg	1	
gamma-BHC (Lindane)	ND	11	22	22	ug/kg	1	
gamma-Chlordane	ND	8.8	22	22	ug/kg	1	
Heptachlor	ND	12	22	22	ug/kg	1	
Heptachlor epoxide	ND	8.0	22	22	ug/kg	1	
Kepone	ND	190	440	440	ug/kg	1	
Methoxychlor	ND	4.8	22	22	ug/kg	1	
Mirex	ND	6.8	22	22	ug/kg	1	
Oxychlordane	ND	22	22	22	ug/kg	1	
Toxaphene	ND	75	660	660	ug/kg	1	
trans-Nonachlor	ND	22	22	22	ug/kg	1	
Surr: Decachlorobiphenyl	*63 %*	Conc:*137*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*59 %*	Conc:*129*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-12 LN06328

Sampled: 05/29/13 08:14 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/05/13 00:34 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	**190**	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.7	24	24	ug/kg	1	
4,4'-DDE	**740**	37	120	120	ug/kg	5	M-06
4,4'-DDT	**270**	5.3	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	13	24	24	ug/kg	1	
beta-BHC	**37**	7.7	24	24	ug/kg	1	
Chlordane (tech)	ND	99	490	490	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.5	24	24	ug/kg	1	
Dieldrin	ND	7.3	24	24	ug/kg	1	
Endosulfan I	ND	5.5	24	24	ug/kg	1	
Endosulfan II	ND	3.1	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.3	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.8	24	24	ug/kg	1	
Endrin ketone	ND	4.5	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	13	24	24	ug/kg	1	
gamma-Chlordane	ND	9.7	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.8	24	24	ug/kg	1	
Kepone	ND	210	490	490	ug/kg	1	
Methoxychlor	ND	5.3	24	24	ug/kg	1	
Mirex	ND	7.6	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	**2400**	83	730	730	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*63 %*	Conc:*154*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*61 %*	Conc:*148*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-13 **LN06332**

Sampled: 05/29/13 08:40 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A | Batch: W3E1479 | Prepared: 05/31/13 07:26 | Analyzed: 06/05/13 01:02 | Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	25	25	25	ug/kg	1	
2,4'-DDE	ND	25	25	25	ug/kg	1	
2,4'-DDT	ND	25	25	25	ug/kg	1	
4,4'-DDD	ND	4.7	25	25	ug/kg	1	
4,4'-DDE	ND	7.5	25	25	ug/kg	1	
4,4'-DDT	ND	5.4	25	25	ug/kg	1	
Aldrin	ND	11	25	25	ug/kg	1	
alpha-BHC	ND	14	25	25	ug/kg	1	
alpha-Chlordane	ND	13	25	25	ug/kg	1	
beta-BHC	ND	7.7	25	25	ug/kg	1	
Chlordane (tech)	ND	100	490	490	ug/kg	1	
cis-Nonachlor	ND	25	25	25	ug/kg	1	
DCPA	ND	25	25	25	ug/kg	1	
delta-BHC	ND	5.6	25	25	ug/kg	1	
Dieldrin	ND	7.4	25	25	ug/kg	1	
Endosulfan I	ND	5.6	25	25	ug/kg	1	
Endosulfan II	ND	3.1	25	25	ug/kg	1	
Endosulfan sulfate	ND	5.4	25	25	ug/kg	1	
Endrin	ND	13	25	25	ug/kg	1	
Endrin aldehyde	ND	6.9	25	25	ug/kg	1	
Endrin ketone	ND	4.5	25	25	ug/kg	1	
gamma-BHC (Lindane)	ND	13	25	25	ug/kg	1	
gamma-Chlordane	ND	9.8	25	25	ug/kg	1	
Heptachlor	ND	13	25	25	ug/kg	1	
Heptachlor epoxide	ND	8.9	25	25	ug/kg	1	
Kepone	ND	220	490	490	ug/kg	1	
Methoxychlor	ND	5.4	25	25	ug/kg	1	
Mirex	ND	7.6	25	25	ug/kg	1	
Oxychlordane	ND	25	25	25	ug/kg	1	
Toxaphene	ND	84	740	740	ug/kg	1	
trans-Nonachlor	ND	25	25	25	ug/kg	1	
Surr: Decachlorobiphenyl	*56 %*	Conc:*138*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*67 %*	Conc:*165*		*18-112*	%		

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Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-14 **LN06334**

Sampled: 05/29/13 08:44 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/05/13 01:31 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	ND	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.5	24	24	ug/kg	1	
4,4'-DDE	ND	7.3	24	24	ug/kg	1	
4,4'-DDT	ND	5.2	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	12	24	24	ug/kg	1	
beta-BHC	ND	7.5	24	24	ug/kg	1	
Chlordane (tech)	ND	97	470	470	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.4	24	24	ug/kg	1	
Dieldrin	ND	7.1	24	24	ug/kg	1	
Endosulfan I	ND	5.4	24	24	ug/kg	1	
Endosulfan II	ND	3.0	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.2	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.6	24	24	ug/kg	1	
Endrin ketone	ND	4.4	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	12	24	24	ug/kg	1	
gamma-Chlordane	ND	9.5	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.6	24	24	ug/kg	1	
Kepone	ND	210	470	470	ug/kg	1	
Methoxychlor	ND	5.2	24	24	ug/kg	1	
Mirex	ND	7.4	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	ND	81	710	710	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*64 %*	Conc:*152*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*70 %*	Conc:*165*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-15 **LN06341**

Sampled: 05/29/13 09:30 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/05/13 02:00 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	ND	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.6	24	24	ug/kg	1	
4,4'-DDE	ND	7.4	24	24	ug/kg	1	
4,4'-DDT	ND	5.3	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	12	24	24	ug/kg	1	
beta-BHC	ND	7.6	24	24	ug/kg	1	
Chlordane (tech)	ND	98	480	480	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.5	24	24	ug/kg	1	
Dieldrin	ND	7.2	24	24	ug/kg	1	
Endosulfan I	ND	5.5	24	24	ug/kg	1	
Endosulfan II	ND	3.1	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.3	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.7	24	24	ug/kg	1	
Endrin ketone	ND	4.4	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	13	24	24	ug/kg	1	
gamma-Chlordane	ND	9.6	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.8	24	24	ug/kg	1	
Kepone	ND	210	480	480	ug/kg	1	
Methoxychlor	ND	5.3	24	24	ug/kg	1	
Mirex	ND	7.5	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	ND	82	720	720	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*63 %*	Conc:*151*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*69 %*	Conc:*166*		*18-112*	%		

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700017

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-16 **LN06343**

Sampled: 05/29/13 09:34 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A | Batch: W3E1479 | Prepared: 06/31/13 07:26 | Analyzed: 06/05/13 11:23 | Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	**36**	23	23	23	ug/kg	1	
2,4'-DDE	ND	23	23	23	ug/kg	1	
2,4'-DDT	**94**	23	23	23	ug/kg	1	
4,4'-DDD	ND	4.5	23	23	ug/kg	1	
4,4'-DDE	**440**	7.2	23	23	ug/kg	1	
4,4'-DDT	**260**	5.1	23	23	ug/kg	1	
Aldrin	ND	11	23	23	ug/kg	1	
alpha-BHC	ND	14	23	23	ug/kg	1	
alpha-Chlordane	ND	12	23	23	ug/kg	1	
beta-BHC	**42**	7.4	23	23	ug/kg	1	
Chlordane (tech)	ND	95	470	470	ug/kg	1	
cis-Nonachlor	ND	23	23	23	ug/kg	1	
DCPA	ND	23	23	23	ug/kg	1	
delta-BHC	ND	5.3	23	23	ug/kg	1	
Dieldrin	ND	7.0	23	23	ug/kg	1	
Endosulfan I	ND	5.3	23	23	ug/kg	1	
Endosulfan II	ND	3.0	23	23	ug/kg	1	
Endosulfan sulfate	ND	5.1	23	23	ug/kg	1	
Endrin	ND	13	23	23	ug/kg	1	
Endrin aldehyde	ND	6.5	23	23	ug/kg	1	
Endrin ketone	ND	4.3	23	23	ug/kg	1	
gamma-BHC (Lindane)	ND	12	23	23	ug/kg	1	
gamma-Chlordane	ND	9.3	23	23	ug/kg	1	
Heptachlor	ND	13	23	23	ug/kg	1	
Heptachlor epoxide	ND	8.5	23	23	ug/kg	1	
Kepone	ND	210	470	470	ug/kg	1	
Methoxychlor	ND	5.1	23	23	ug/kg	1	
Mirex	ND	7.3	23	23	ug/kg	1	
Oxychlordane	ND	23	23	23	ug/kg	1	
Toxaphene	**1500**	80	700	700	ug/kg	1	
trans-Nonachlor	ND	23	23	23	ug/kg	1	
Surr: Decachlorobiphenyl	*64 %*	Conc:*150*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*65 %*	Conc:*153*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

QUALITY CONTROL SECTION

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Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W3E1479 - EPA 8081A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3E1479-BLK1)				Analyzed: 06/04/13 13:16						
2,4'-DDD	ND	2.5	ug/kg							
2,4'-DDE	ND	2.5	ug/kg							
2,4'-DDT	ND	2.5	ug/kg							
4,4'-DDD	ND	2.5	ug/kg							
4,4'-DDE	ND	2.5	ug/kg							
4,4'-DDT	ND	2.5	ug/kg							
Aldrin	ND	2.5	ug/kg							
alpha-BHC	ND	2.5	ug/kg							
alpha-Chlordane	ND	2.5	ug/kg							
beta-BHC	ND	2.5	ug/kg							
Chlordane (tech)	ND	50	ug/kg							
cis-Nonachlor	ND	2.5	ug/kg							
DCPA	ND	2.5	ug/kg							
delta-BHC	ND	2.5	ug/kg							
Dieldrin	ND	2.5	ug/kg							
Endosulfan I	ND	2.5	ug/kg							
Endosulfan II	ND	2.5	ug/kg							
Endosulfan sulfate	ND	2.5	ug/kg							
Endrin	ND	2.5	ug/kg							
Endrin aldehyde	ND	2.5	ug/kg							
Endrin ketone	ND	2.5	ug/kg							
gamma-BHC (Lindane)	ND	2.5	ug/kg							
gamma-Chlordane	ND	2.5	ug/kg							
Heptachlor	ND	2.5	ug/kg							
Heptachlor epoxide	ND	2.5	ug/kg							
Kepone	ND	50	ug/kg							
Methoxychlor	ND	2.5	ug/kg							
Mirex	ND	2.5	ug/kg							
Oxychlordane	ND	2.5	ug/kg							
Toxaphene	ND	75	ug/kg							
trans-Nonachlor	ND	2.5	ug/kg							
Surr: Decachlorobiphenyl	*14.7*		*ug/kg*	*25.0*		*59*	*21-125*			
Surr: Tetrachloro-meta-xylene	*16.5*		*ug/kg*	*25.0*		*66*	*18-112*			
LCS (W3E1479-BS1)				Analyzed: 06/04/13 13:44						
4,4'-DDD	21.1	2.5	ug/kg	25.0		85	48-126	NR		
4,4'-DDE	20.1	2.5	ug/kg	25.0		80	48-121	NR		
4,4'-DDT	21.4	2.5	ug/kg	25.0		85	45-146	NR		
Aldrin	19.8	2.5	ug/kg	25.0		79	57-137	NR		
alpha-BHC	20.3	2.5	ug/kg	25.0		81	64-131	NR		
beta-BHC	20.6	2.5	ug/kg	25.0		82	48-126	NR		
Chlordane (tech)	ND	50	ug/kg				41-163			
delta-BHC	19.4	2.5	ug/kg	25.0		78	30-124	NR		
Dieldrin	21.2	2.5	ug/kg	25.0		85	49-123	NR		

700020

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W3E1479 - EPA 8081A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W3E1479-BS1)				Analyzed: 06/04/13 13:44						
Endosulfan I	16.1	2.5	ug/kg	25.0		64	14-101	NR		
Endosulfan II	18.1	2.5	ug/kg	25.0		72	33-146	NR		
Endosulfan sulfate	22.6	2.5	ug/kg	25.0		90	33-146	NR		
Endrin	22.0	2.5	ug/kg	25.0		88	39-144	NR		
Endrin aldehyde	17.5	2.5	ug/kg	25.0		70	23-104	NR		
gamma-BHC (Lindane)	20.3	2.5	ug/kg	25.0		81	43-114	NR		
Heptachlor	20.4	2.5	ug/kg	25.0		82	48-125	NR		
Heptachlor epoxide	21.6	2.5	ug/kg	25.0		87	47-121	NR		
Methoxychlor	21.7	2.5	ug/kg	25.0		87	47-157	NR		
Toxaphene	ND	75	ug/kg				48-164			
Surr: Decachlorobiphenyl	*15.3*		*ug/kg*	*25.0*		*61*	*21-125*			
Surr: Tetrachloro-meta-xylene	*18.1*		*ug/kg*	*25.0*		*72*	*18-112*			
Matrix Spike (W3E1479-MS1)	**Source: 3E30013-01**			Analyzed: 06/04/13 14:12						
4,4'-DDD	210	24	ug/kg	240	ND	87	21-119	NR		
4,4'-DDE	199	24	ug/kg	240	ND	83	18-122	NR		
4,4'-DDT	208	24	ug/kg	240	ND	87	12-141	NR		
Aldrin	173	24	ug/kg	240	ND	72	24-173	NR		
alpha-BHC	175	24	ug/kg	240	ND	73	44-146	NR		
beta-BHC	189	24	ug/kg	240	ND	78	7-156	NR		
delta-BHC	185	24	ug/kg	240	ND	77	11-147	NR		
Dieldrin	202	24	ug/kg	240	ND	84	23-123	NR		
Endosulfan I	124	24	ug/kg	240	ND	52	0.1-94	NR		
Endosulfan II	150	24	ug/kg	240	ND	62	0.1-109	NR		
Endosulfan sulfate	215	24	ug/kg	240	ND	89	0.1-152	NR		
Endrin	206	24	ug/kg	240	ND	86	22-147	NR		
Endrin aldehyde	179	24	ug/kg	240	ND	74	0.1-114	NR		
gamma-BHC (Lindane)	178	24	ug/kg	240	ND	74	16-121	NR		
Heptachlor	180	24	ug/kg	240	ND	75	4-141	NR		
Heptachlor epoxide	198	24	ug/kg	240	ND	82	17-135	NR		
Methoxychlor	211	24	ug/kg	240	ND	88	14-153	NR		
Surr: Decachlorobiphenyl	*155*		*ug/kg*	*240*		*64*	*21-125*			
Surr: Tetrachloro-meta-xylene	*153*		*ug/kg*	*240*		*64*	*18-112*			
Matrix Spike Dup (W3E1479-MSD1)	**Source: 3E30013-01**			Analyzed: 06/04/13 14:40						
4,4'-DDD	215	24	ug/kg	243	ND	88	21-119	2	25	
4,4'-DDE	203	24	ug/kg	243	ND	84	18-122	2	25	
4,4'-DDT	220	24	ug/kg	243	ND	91	12-141	6	25	
Aldrin	185	24	ug/kg	243	ND	76	24-173	7	25	
alpha-BHC	187	24	ug/kg	243	ND	77	44-146	6	25	
beta-BHC	200	24	ug/kg	243	ND	83	7-156	6	25	
delta-BHC	193	24	ug/kg	243	ND	79	11-147	4	25	
Dieldrin	209	24	ug/kg	243	ND	86	23-123	4	25	
Endosulfan I	116	24	ug/kg	243	ND	48	0.1-94	7	25	
Endosulfan II	135	24	ug/kg	243	ND	56	0.1-109	10	25	

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W3E1479 - EPA 8081A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike Dup (W3E1479-MSD1)	**Source: 3E30013-01**			Analyzed: 06/04/13 14:40						
Endosulfan sulfate	235	24	ug/kg	243	ND	97	0.1-152	9	25	
Endrin	214	24	ug/kg	243	ND	88	22-147	4	25	
Endrin aldehyde	188	24	ug/kg	243	ND	77	0.1-114	5	25	
gamma-BHC (Lindane)	189	24	ug/kg	243	ND	78	16-121	6	25	
Heptachlor	192	24	ug/kg	243	ND	79	4-141	7	25	
Heptachlor epoxide	208	24	ug/kg	243	ND	86	17-135	5	25	
Methoxychlor	235	24	ug/kg	243	ND	97	14-153	11	25	
Surr: Decachlorobiphenyl	*160*		*ug/kg*	*243*		*66*	*21-125*			
Surr: Tetrachloro-meta-xylene	*163*		*ug/kg*	*243*		*67*	*18-112*			

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Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

Notes and Definitions

M-06	Due to the high concentration of analyte inherent in the sample, sample was diluted prior to preparation. The MDL and MRL were raised due to this dilution.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit
NR	Not Reportable

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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ATTACHMENT #7

Semi Volatile Organic Compounds
(SVOCs)

EPA METHOD 8270C

CERTIFICATE OF ANALYSIS

Client:	LADWP - Environmental Laboratory 1630 North Main Street, Bldg. 7, Rm 311 Los Angeles, CA 90012	**Report Date:**	06/05/13 16:04
		Received Date:	05/30/13 09:50
		Turn Around:	5 workdays
Attention:	Kevin Han	**Work Order #:**	3E30014
Phone:	213-367-7267		49067-3, COC #13-1321,26
Fax:	(213) 367-7285	**Client Project:**	7600 Tyrone Ave,COC #13-1321,26, WO#

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Kevin Han :

Enclosed are the results of analyses for samples received 05/30/13 09:50 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Kim G Tu
Project Manager

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
LN06205	Client		3E30014-01	Solid	05/28/13 08:08
LN06207	Client		3E30014-02	Solid	05/28/13 08:04
LN06214	Client		3E30014-03	Solid	05/28/13 08:50
LN06216	Client		3E30014-04	Solid	05/28/13 08:54
LN06217	Client		3E30014-05	Solid	05/28/13 09:00
LN06219	Client		3E30014-06	Solid	05/28/13 09:04
LN06229	Client		3E30014-07	Solid	05/28/13 09:40
LN06231	Client		3E30014-08	Solid	05/28/13 09:44
LN06241	Client		3E30014-09	Solid	05/28/13 10:20
LN06243	Client		3E30014-10	Solid	05/28/13 10:24
LN06259	Client		3E30014-11	Solid	05/28/13 11:30
LN06261	Client		3E30014-12	Solid	05/28/13 11:34
LN06329	Client		3E30014-13	Solid	05/29/13 08:30
LN06331	Client		3E30014-14	Solid	05/29/13 08:34
LN06335	Client		3E30014-15	Solid	05/29/13 09:00
LN06337	Client		3E30014-16	Solid	05/29/13 09:04
LN06338	Client		3E30014-17	Solid	05/29/13 09:06
LN06340	Client		3E30014-18	Solid	05/29/13 09:10
LN06341	Client		3E30014-19	Solid	05/29/13 09:30
LN06343	Client		3E30014-20	Solid	05/29/13 09:34

ANALYSES

Semivolatile Organic Compounds by GC/MS

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-13 **LN06329**

Sampled: 05/29/13 08:30 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 01:12 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.080	0.44	0.44	mg/kg	1	
1,2-Dichlorobenzene	ND	0.097	0.44	0.44	mg/kg	1	
1,3-Dichlorobenzene	ND	0.071	0.44	0.44	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.44	0.44	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.097	0.44	0.44	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.097	0.44	0.44	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.44	0.44	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.44	0.44	mg/kg	1	
2,4-Dinitrophenol	ND	3.4	22	22	mg/kg	1	
2,4-Dinitrotoluene	ND	0.088	0.44	0.44	mg/kg	1	
2,6-Dinitrotoluene	ND	0.071	0.44	0.44	mg/kg	1	
2-Chloronaphthalene	ND	0.071	0.44	0.44	mg/kg	1	
2-Chlorophenol	ND	0.088	0.44	0.44	mg/kg	1	
2-Methylnaphthalene	ND	0.080	0.44	0.44	mg/kg	1	
2-Methylphenol	ND	0.11	0.44	0.44	mg/kg	1	
2-Nitroaniline	ND	0.12	0.44	0.44	mg/kg	1	
2-Nitrophenol	ND	0.19	0.44	0.44	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.44	0.44	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.3	2.2	2.2	mg/kg	1	
3-Nitroaniline	ND	0.13	0.44	0.44	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.4	4.4	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.062	0.44	0.44	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.097	0.44	0.44	mg/kg	1	
4-Chloroaniline	ND	0.12	0.44	0.44	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.080	0.44	0.44	mg/kg	1	
4-Nitroaniline	ND	0.12	0.44	0.44	mg/kg	1	
4-Nitrophenol	ND	0.13	0.44	0.44	mg/kg	1	
Acenaphthene	ND	0.080	0.44	0.44	mg/kg	1	
Acenaphthylene	ND	0.080	0.44	0.44	mg/kg	1	
Aniline	ND	0.20	0.44	0.44	mg/kg	1	
Anthracene	ND	0.071	0.44	0.44	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.088	0.44	0.44	mg/kg	1	
Benzidine	ND	1.1	4.4	4.4	mg/kg	1	
Benzo (a) anthracene	ND	0.062	0.44	0.44	mg/kg	1	
Benzo (a) pyrene	ND	0.071	0.44	0.44	mg/kg	1	
Benzo (b) fluoranthene	ND	0.062	0.44	0.44	mg/kg	1	
Benzo (g,h,i) perylene	**0.11**	0.053	0.88	0.88	mg/kg	1	J
Benzo (k) fluoranthene	ND	0.12	0.44	0.44	mg/kg	1	
Benzoic acid	ND	1.7	22	22	mg/kg	1	
Benzyl alcohol	ND	0.12	0.44	0.44	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-13 LN06329

Sampled: 05/29/13 08:30 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 01:12 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.080	0.44	0.44	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.097	0.44	0.44	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.12	0.44	0.44	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.44	0.44	mg/kg	1	
Butyl benzyl phthalate	**0.28**	0.13	0.44	0.44	mg/kg	1	J
Carbazole	ND	0.080	0.44	0.44	mg/kg	1	
Chrysene	ND	0.080	0.44	0.44	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.044	0.88	0.88	mg/kg	1	
Dibenzofuran	ND	0.080	0.44	0.44	mg/kg	1	
Diethyl phthalate	ND	0.053	0.44	0.44	mg/kg	1	
Dimethyl phthalate	ND	0.76	2.2	2.2	mg/kg	1	
Di-n-butyl phthalate	ND	0.071	0.44	0.44	mg/kg	1	
Di-n-octyl phthalate	ND	0.12	0.44	0.44	mg/kg	1	
Fluoranthene	ND	0.097	0.44	0.44	mg/kg	1	
Fluorene	ND	0.062	0.44	0.44	mg/kg	1	
Hexachlorobenzene	ND	0.071	0.44	0.44	mg/kg	1	
Hexachlorobutadiene	ND	0.080	0.44	0.44	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.44	0.44	mg/kg	1	
Hexachloroethane	ND	0.062	0.44	0.44	mg/kg	1	
Indeno (1,2,3-cd) pyrene	**0.16**	0.080	0.88	0.88	mg/kg	1	J
Isophorone	ND	0.088	0.44	0.44	mg/kg	1	
Naphthalene	ND	0.097	0.44	0.44	mg/kg	1	
Nitrobenzene	ND	0.097	0.44	0.44	mg/kg	1	
N-Nitrosodimethylamine	ND	0.080	0.44	0.44	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.080	0.44	0.44	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.062	0.44	0.44	mg/kg	1	
Pentachlorophenol	ND	0.14	0.44	0.44	mg/kg	1	
Phenanthrene	ND	0.071	0.44	0.44	mg/kg	1	
Phenol	ND	0.13	0.44	0.44	mg/kg	1	
Pyrene	ND	0.071	0.44	0.44	mg/kg	1	
Pyridine	ND	0.044	0.88	0.88	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*65 %*	Conc:*28.6*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*74 %*	Conc:*16.4*		*39-100*	%		
Surr: 2-Fluorophenol	*89 %*	Conc:*39.6*		*26-115*	%		
Surr: Nitrobenzene-d5	*76 %*	Conc:*16.8*		*49-105*	%		
Surr: Phenol-d5	*84 %*	Conc:*37.3*		*36-105*	%		
Surr: Terphenyl-d14	*86 %*	Conc:*19.1*		*36-106*	%		

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800004

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-14 LN06331

Sampled: 05/29/13 08:34 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 01:42 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.090	0.50	0.50	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.50	0.50	mg/kg	1	
1,3-Dichlorobenzene	ND	0.080	0.50	0.50	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.50	0.50	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.50	0.50	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2,4-Dinitrophenol	ND	3.8	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.10	0.50	0.50	mg/kg	1	
2,6-Dinitrotoluene	ND	0.080	0.50	0.50	mg/kg	1	
2-Chloronaphthalene	ND	0.080	0.50	0.50	mg/kg	1	
2-Chlorophenol	ND	0.10	0.50	0.50	mg/kg	1	
2-Methylnaphthalene	ND	0.090	0.50	0.50	mg/kg	1	
2-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
2-Nitrophenol	ND	0.22	0.50	0.50	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.50	0.50	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	5.0	5.0	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.070	0.50	0.50	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.50	0.50	mg/kg	1	
4-Chloroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.090	0.50	0.50	mg/kg	1	
4-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Nitrophenol	ND	0.15	0.50	0.50	mg/kg	1	
Acenaphthene	ND	0.090	0.50	0.50	mg/kg	1	
Acenaphthylene	ND	0.090	0.50	0.50	mg/kg	1	
Aniline	ND	0.23	0.50	0.50	mg/kg	1	
Anthracene	ND	0.080	0.50	0.50	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.10	0.50	0.50	mg/kg	1	
Benzidine	ND	1.3	5.0	5.0	mg/kg	1	
Benzo (a) anthracene	ND	0.070	0.50	0.50	mg/kg	1	
Benzo (a) pyrene	ND	0.080	0.50	0.50	mg/kg	1	
Benzo (b) fluoranthene	ND	0.070	0.50	0.50	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.060	1.0	1.0	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.50	0.50	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.50	0.50	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-14 **LN06331**

Sampled: 05/29/13 08:34 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 01:42 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.090	0.50	0.50	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.50	0.50	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.50	0.50	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.50	0.50	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.50	0.50	mg/kg	1	
Carbazole	ND	0.090	0.50	0.50	mg/kg	1	
Chrysene	ND	0.090	0.50	0.50	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.050	1.0	1.0	mg/kg	1	
Dibenzofuran	ND	0.090	0.50	0.50	mg/kg	1	
Diethyl phthalate	ND	0.060	0.50	0.50	mg/kg	1	
Dimethyl phthalate	ND	0.88	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.080	0.50	0.50	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.50	0.50	mg/kg	1	
Fluoranthene	ND	0.11	0.50	0.50	mg/kg	1	
Fluorene	ND	0.070	0.50	0.50	mg/kg	1	
Hexachlorobenzene	ND	0.080	0.50	0.50	mg/kg	1	
Hexachlorobutadiene	ND	0.090	0.50	0.50	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.50	0.50	mg/kg	1	
Hexachloroethane	ND	0.070	0.50	0.50	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.090	1.0	1.0	mg/kg	1	
Isophorone	ND	0.10	0.50	0.50	mg/kg	1	
Naphthalene	ND	0.11	0.50	0.50	mg/kg	1	
Nitrobenzene	ND	0.11	0.50	0.50	mg/kg	1	
N-Nitrosodimethylamine	ND	0.090	0.50	0.50	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.090	0.50	0.50	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.070	0.50	0.50	mg/kg	1	
Pentachlorophenol	ND	0.16	0.50	0.50	mg/kg	1	
Phenanthrene	ND	0.080	0.50	0.50	mg/kg	1	
Phenol	ND	0.15	0.50	0.50	mg/kg	1	
Pyrene	ND	0.080	0.50	0.50	mg/kg	1	
Pyridine	ND	0.050	1.0	1.0	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*61 %*	Conc:30.6		*40-97*	%		
Surr: 2-Fluorobiphenyl	*73 %*	Conc:16.0		*39-100*	%		
Surr: 2-Fluorophenol	*86 %*	Conc:42.9		*26-115*	%		
Surr: Nitrobenzene-d5	*75 %*	Conc:18.8		*49-105*	%		
Surr: Phenol-d5	*82 %*	Conc:40.6		*36-105*	%		
Surr: Terphenyl-d14	*84 %*	Conc:21.0		*36-106*	%		

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-15 **LN06335**

Sampled: 05/29/13 09:00 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 02:12 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.089	0.50	0.50	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.50	0.50	mg/kg	1	
1,3-Dichlorobenzene	ND	0.079	0.50	0.50	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.50	0.50	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.50	0.50	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2,4-Dinitrophenol	ND	3.8	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.099	0.50	0.50	mg/kg	1	
2,6-Dinitrotoluene	ND	0.079	0.50	0.50	mg/kg	1	
2-Chloronaphthalene	ND	0.079	0.50	0.50	mg/kg	1	
2-Chlorophenol	ND	0.099	0.50	0.50	mg/kg	1	
2-Methylnaphthalene	ND	0.089	0.50	0.50	mg/kg	1	
2-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
2-Nitrophenol	ND	0.22	0.50	0.50	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.50	0.50	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	5.0	5.0	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.50	0.50	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.50	0.50	mg/kg	1	
4-Chloroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.089	0.50	0.50	mg/kg	1	
4-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Nitrophenol	ND	0.15	0.50	0.50	mg/kg	1	
Acenaphthene	ND	0.089	0.50	0.50	mg/kg	1	
Acenaphthylene	ND	0.089	0.50	0.50	mg/kg	1	
Aniline	ND	0.23	0.50	0.50	mg/kg	1	
Anthracene	ND	0.079	0.50	0.50	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.099	0.50	0.50	mg/kg	1	
Benzidine	ND	1.2	5.0	5.0	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.50	0.50	mg/kg	1	
Benzo (a) pyrene	ND	0.079	0.50	0.50	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.50	0.50	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.99	0.99	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.50	0.50	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.50	0.50	mg/kg	1	

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-15 **LN06335**

Sampled: 05/29/13 09:00 | Sampled By: Client | Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 02:12 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.089	0.50	0.50	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.50	0.50	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.50	0.50	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.50	0.50	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.50	0.50	mg/kg	1	
Carbazole	ND	0.089	0.50	0.50	mg/kg	1	
Chrysene	ND	0.089	0.50	0.50	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.050	0.99	0.99	mg/kg	1	
Dibenzofuran	ND	0.089	0.50	0.50	mg/kg	1	
Diethyl phthalate	ND	0.059	0.50	0.50	mg/kg	1	
Dimethyl phthalate	ND	0.87	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.079	0.50	0.50	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.50	0.50	mg/kg	1	
Fluoranthene	ND	0.11	0.50	0.50	mg/kg	1	
Fluorene	ND	0.069	0.50	0.50	mg/kg	1	
Hexachlorobenzene	ND	0.079	0.50	0.50	mg/kg	1	
Hexachlorobutadiene	ND	0.089	0.50	0.50	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.50	0.50	mg/kg	1	
Hexachloroethane	ND	0.069	0.50	0.50	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.089	0.99	0.99	mg/kg	1	
Isophorone	ND	0.099	0.50	0.50	mg/kg	1	
Naphthalene	ND	0.11	0.50	0.50	mg/kg	1	
Nitrobenzene	ND	0.11	0.50	0.50	mg/kg	1	
N-Nitrosodimethylamine	ND	0.089	0.50	0.50	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.089	0.50	0.50	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.089	0.50	0.50	mg/kg	1	
Pentachlorophenol	ND	0.16	0.50	0.50	mg/kg	1	
Phenanthrene	ND	0.079	0.50	0.50	mg/kg	1	
Phenol	ND	0.15	0.50	0.50	mg/kg	1	
Pyrene	ND	0.079	0.50	0.50	mg/kg	1	
Pyridine	ND	0.050	0.99	0.99	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*62 %*	Conc:*30.6*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*74 %*	Conc:*18.3*		*39-100*	%		
Surr: 2-Fluorophenol	*86 %*	Conc:*42.8*		*26-115*	%		
Surr: Nitrobenzene-d5	*75 %*	Conc:*18.5*		*49-105*	%		
Surr: Phenol-d5	*82 %*	Conc:*40.4*		*36-105*	%		
Surr: Terphenyl-d14	*82 %*	Conc:*20.2*		*36-106*	%		

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-16 **LN06337**

Sampled: 05/29/13 09:04 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 02:42 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.088	0.49	0.49	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.49	0.49	mg/kg	1	
1,3-Dichlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.49	0.49	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.49	0.49	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.098	0.49	0.49	mg/kg	1	
2,6-Dinitrotoluene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chloronaphthalene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chlorophenol	ND	0.098	0.49	0.49	mg/kg	1	
2-Methylnaphthalene	ND	0.088	0.49	0.49	mg/kg	1	
2-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
2-Nitrophenol	ND	0.22	0.49	0.49	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.49	0.49	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.9	4.9	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.49	0.49	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.49	0.49	mg/kg	1	
4-Chloroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.088	0.49	0.49	mg/kg	1	
4-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Nitrophenol	ND	0.15	0.49	0.49	mg/kg	1	
Acenaphthene	ND	0.088	0.49	0.49	mg/kg	1	
Acenaphthylene	ND	0.088	0.49	0.49	mg/kg	1	
Aniline	ND	0.23	0.49	0.49	mg/kg	1	
Anthracene	ND	0.078	0.49	0.49	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.098	0.49	0.49	mg/kg	1	
Benzidine	ND	1.2	4.9	4.9	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (a) pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.98	0.98	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.49	0.49	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.49	0.49	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-16 **LN06337**

Sampled: 05/29/13 09:04 | Sampled By: Client | Matrix: Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 02:42 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.088	0.49	0.49	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.49	0.49	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.49	0.49	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.49	0.49	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.49	0.49	mg/kg	1	
Carbazole	ND	0.088	0.49	0.49	mg/kg	1	
Chrysene	ND	0.088	0.49	0.49	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.049	0.98	0.98	mg/kg	1	
Dibenzofuran	ND	0.088	0.49	0.49	mg/kg	1	
Diethyl phthalate	ND	0.059	0.49	0.49	mg/kg	1	
Dimethyl phthalate	ND	0.86	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.078	0.49	0.49	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.49	0.49	mg/kg	1	
Fluoranthene	ND	0.11	0.49	0.49	mg/kg	1	
Fluorene	ND	0.069	0.49	0.49	mg/kg	1	
Hexachlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
Hexachlorobutadiene	ND	0.088	0.49	0.49	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.49	0.49	mg/kg	1	
Hexachloroethane	ND	0.069	0.49	0.49	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.088	0.98	0.98	mg/kg	1	
Isophorone	ND	0.098	0.49	0.49	mg/kg	1	
Naphthalene	ND	0.11	0.49	0.49	mg/kg	1	
Nitrobenzene	ND	0.11	0.49	0.49	mg/kg	1	
N-Nitrosodimethylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.49	0.49	mg/kg	1	
Pentachlorophenol	ND	0.16	0.49	0.49	mg/kg	1	
Phenanthrene	ND	0.078	0.49	0.49	mg/kg	1	
Phenol	ND	0.15	0.49	0.49	mg/kg	1	
Pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Pyridine	ND	0.049	0.98	0.98	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*56 %*	Conc:*27.5*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*67 %*	Conc:*16.5*		*39-100*	%		
Surr: 2-Fluorophenol	*78 %*	Conc:*38.3*		*26-115*	%		
Surr: Nitrobenzene-d5	*69 %*	Conc:*16.9*		*49-105*	%		
Surr: Phenol-d5	*75 %*	Conc:*36.6*		*36-105*	%		
Surr: Terphenyl-d14	*73 %*	Conc:*18.0*		*36-106*	%		

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-17 **LN06338**

Sampled: 05/29/13 09:06 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 03:13 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.087	0.48	0.48	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.48	0.48	mg/kg	1	
1,3-Dichlorobenzene	ND	0.077	0.48	0.48	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.48	0.48	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.48	0.48	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.48	0.48	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.48	0.48	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.48	0.48	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	24	24	mg/kg	1	
2,4-Dinitrotoluene	ND	0.097	0.48	0.48	mg/kg	1	
2,6-Dinitrotoluene	ND	0.077	0.48	0.48	mg/kg	1	
2-Chloronaphthalene	ND	0.077	0.48	0.48	mg/kg	1	
2-Chlorophenol	ND	0.097	0.48	0.48	mg/kg	1	
2-Methylnaphthalene	ND	0.087	0.48	0.48	mg/kg	1	
2-Methylphenol	ND	0.12	0.48	0.48	mg/kg	1	
2-Nitroaniline	ND	0.13	0.48	0.48	mg/kg	1	
2-Nitrophenol	ND	0.21	0.48	0.48	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.48	0.48	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.4	2.4	mg/kg	1	
3-Nitroaniline	ND	0.14	0.48	0.48	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.8	4.8	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.068	0.48	0.48	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.48	0.48	mg/kg	1	
4-Chloroaniline	ND	0.13	0.48	0.48	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.087	0.48	0.48	mg/kg	1	
4-Nitroaniline	ND	0.13	0.48	0.48	mg/kg	1	
4-Nitrophenol	ND	0.14	0.48	0.48	mg/kg	1	
Acenaphthene	ND	0.087	0.48	0.48	mg/kg	1	
Acenaphthylene	ND	0.087	0.48	0.48	mg/kg	1	
Aniline	ND	0.22	0.48	0.48	mg/kg	1	
Anthracene	ND	0.077	0.48	0.48	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.097	0.48	0.48	mg/kg	1	
Benzidine	ND	1.2	4.8	4.8	mg/kg	1	
Benzo (a) anthracene	ND	0.068	0.48	0.48	mg/kg	1	
Benzo (a) pyrene	ND	0.077	0.48	0.48	mg/kg	1	
Benzo (b) fluoranthene	ND	0.068	0.48	0.48	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.058	0.97	0.97	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.48	0.48	mg/kg	1	
Benzoic acid	ND	1.8	24	24	mg/kg	1	
Benzyl alcohol	ND	0.14	0.48	0.48	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-17 **LN06338**

Sampled: 05/29/13 09:06 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 03:13 | Analyst: abl

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.087	0.48	0.48	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.48	0.48	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.48	0.48	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.48	0.48	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.48	0.48	mg/kg	1	
Carbazole	ND	0.087	0.48	0.48	mg/kg	1	
Chrysene	ND	0.087	0.48	0.48	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.048	0.97	0.97	mg/kg	1	
Dibenzofuran	ND	0.087	0.48	0.48	mg/kg	1	
Diethyl phthalate	ND	0.058	0.48	0.48	mg/kg	1	
Dimethyl phthalate	ND	0.85	2.4	2.4	mg/kg	1	
Di-n-butyl phthalate	ND	0.077	0.48	0.48	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.48	0.48	mg/kg	1	
Fluoranthene	ND	0.11	0.48	0.48	mg/kg	1	
Fluorene	ND	0.068	0.48	0.48	mg/kg	1	
Hexachlorobenzene	ND	0.077	0.48	0.48	mg/kg	1	
Hexachlorobutadiene	ND	0.087	0.48	0.48	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.48	0.48	mg/kg	1	
Hexachloroethane	ND	0.068	0.48	0.48	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.087	0.97	0.97	mg/kg	1	
Isophorone	ND	0.097	0.48	0.48	mg/kg	1	
Naphthalene	ND	0.11	0.48	0.48	mg/kg	1	
Nitrobenzene	ND	0.11	0.48	0.48	mg/kg	1	
N-Nitrosodimethylamine	ND	0.087	0.48	0.48	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.087	0.48	0.48	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.068	0.48	0.48	mg/kg	1	
Pentachlorophenol	ND	0.15	0.48	0.48	mg/kg	1	
Phenanthrene	ND	0.077	0.48	0.48	mg/kg	1	
Phenol	ND	0.14	0.48	0.48	mg/kg	1	
Pyrene	ND	0.077	0.48	0.48	mg/kg	1	
Pyridine	ND	0.048	0.97	0.97	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*55 %*	Conc:*26.6*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*62 %*	Conc:*14.9*		*39-100*	%		
Surr: 2-Fluorophenol	*72 %*	Conc:*34.9*		*26-115*	%		
Surr: Nitrobenzene-d5	*65 %*	Conc:*15.7*		*49-105*	%		
Surr: Phenol-d5	*70 %*	Conc:*33.9*		*36-105*	%		
Surr: Terphenyl-d14	*70 %*	Conc:*16.8*		*36-106*	%		

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-18 **LN06340**

Sampled: 05/29/13 09:10 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 03:43 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.087	0.48	0.48	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.48	0.48	mg/kg	1	
1,3-Dichlorobenzene	ND	0.077	0.48	0.48	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.48	0.48	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.48	0.48	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.48	0.48	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.48	0.48	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.48	0.48	mg/kg	1	
2,4-Dinitrophenol	ND	3.6	24	24	mg/kg	1	
2,4-Dinitrotoluene	ND	0.096	0.48	0.48	mg/kg	1	
2,6-Dinitrotoluene	ND	0.077	0.48	0.48	mg/kg	1	
2-Chloronaphthalene	ND	0.077	0.48	0.48	mg/kg	1	
2-Chlorophenol	ND	0.096	0.48	0.48	mg/kg	1	
2-Methylnaphthalene	ND	0.087	0.48	0.48	mg/kg	1	
2-Methylphenol	ND	0.12	0.48	0.48	mg/kg	1	
2-Nitroaniline	ND	0.12	0.48	0.48	mg/kg	1	
2-Nitrophenol	ND	0.21	0.48	0.48	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.48	0.48	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.4	2.4	mg/kg	1	
3-Nitroaniline	ND	0.14	0.48	0.48	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.8	4.8	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.067	0.48	0.48	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.48	0.48	mg/kg	1	
4-Chloroaniline	ND	0.12	0.48	0.48	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.087	0.48	0.48	mg/kg	1	
4-Nitroaniline	ND	0.12	0.48	0.48	mg/kg	1	
4-Nitrophenol	ND	0.14	0.48	0.48	mg/kg	1	
Acenaphthene	ND	0.087	0.48	0.48	mg/kg	1	
Acenaphthylene	ND	0.087	0.48	0.48	mg/kg	1	
Aniline	ND	0.22	0.48	0.48	mg/kg	1	
Anthracene	ND	0.077	0.48	0.48	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.096	0.48	0.48	mg/kg	1	
Benzidine	ND	1.2	4.8	4.8	mg/kg	1	
Benzo (a) anthracene	ND	0.067	0.48	0.48	mg/kg	1	
Benzo (a) pyrene	ND	0.077	0.48	0.48	mg/kg	1	
Benzo (b) fluoranthene	ND	0.067	0.48	0.48	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.058	0.96	0.96	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.48	0.48	mg/kg	1	
Benzoic acid	ND	1.8	24	24	mg/kg	1	
Benzyl alcohol	ND	0.13	0.48	0.48	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-18 **LN06340**

Sampled: 05/29/13 09:10 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 03:43 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.087	0.48	0.48	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.48	0.48	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.48	0.48	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.48	0.48	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.48	0.48	mg/kg	1	
Carbazole	ND	0.087	0.48	0.48	mg/kg	1	
Chrysene	ND	0.087	0.48	0.48	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.048	0.96	0.96	mg/kg	1	
Dibenzofuran	ND	0.087	0.48	0.48	mg/kg	1	
Diethyl phthalate	ND	0.058	0.48	0.48	mg/kg	1	
Dimethyl phthalate	ND	0.85	2.4	2.4	mg/kg	1	
Di-n-butyl phthalate	ND	0.077	0.48	0.48	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.48	0.48	mg/kg	1	
Fluoranthene	ND	0.11	0.48	0.48	mg/kg	1	
Fluorene	ND	0.067	0.48	0.48	mg/kg	1	
Hexachlorobenzene	ND	0.077	0.48	0.48	mg/kg	1	
Hexachlorobutadiene	ND	0.087	0.48	0.48	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.48	0.48	mg/kg	1	
Hexachloroethane	ND	0.067	0.48	0.48	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.087	0.96	0.96	mg/kg	1	
Isophorone	ND	0.096	0.48	0.48	mg/kg	1	
Naphthalene	ND	0.11	0.48	0.48	mg/kg	1	
Nitrobenzene	ND	0.11	0.48	0.48	mg/kg	1	
N-Nitrosodimethylamine	ND	0.087	0.48	0.48	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.087	0.48	0.48	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.067	0.48	0.48	mg/kg	1	
Pentachlorophenol	ND	0.15	0.48	0.48	mg/kg	1	
Phenanthrene	ND	0.077	0.48	0.48	mg/kg	1	
Phenol	ND	0.14	0.48	0.48	mg/kg	1	
Pyrene	ND	0.077	0.48	0.48	mg/kg	1	
Pyridine	ND	0.048	0.96	0.96	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*56 %*	Conc:*26.9*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*62 %*	Conc:*14.8*		*39-100*	%		
Surr: 2-Fluorophenol	*72 %*	Conc:*34.5*		*26-115*	%		
Surr: Nitrobenzene-d5	*63 %*	Conc:*15.2*		*49-105*	%		
Surr: Phenol-d5	*69 %*	Conc:*33.0*		*36-105*	%		
Surr: Terphenyl-d14	*91 %*	Conc:*21.8*		*36-106*	%		

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LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-19 **LN06341**

Sampled: 05/29/13 09:30 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 04:13 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.081	0.45	0.45	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.45	0.45	mg/kg	1	
1,3-Dichlorobenzene	ND	0.072	0.45	0.45	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.45	0.45	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.45	0.45	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.45	0.45	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.45	0.45	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2,4-Dinitrophenol	ND	3.4	23	23	mg/kg	1	
2,4-Dinitrotoluene	ND	0.090	0.45	0.45	mg/kg	1	
2,6-Dinitrotoluene	ND	0.072	0.45	0.45	mg/kg	1	
2-Chloronaphthalene	ND	0.072	0.45	0.45	mg/kg	1	
2-Chlorophenol	ND	0.090	0.45	0.45	mg/kg	1	
2-Methylnaphthalene	ND	0.081	0.45	0.45	mg/kg	1	
2-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
2-Nitrophenol	ND	0.20	0.45	0.45	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.3	2.3	mg/kg	1	
3-Nitroaniline	ND	0.14	0.45	0.45	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.5	4.5	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.063	0.45	0.45	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.45	0.45	mg/kg	1	
4-Chloroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.081	0.45	0.45	mg/kg	1	
4-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Nitrophenol	ND	0.14	0.45	0.45	mg/kg	1	
Acenaphthene	ND	0.081	0.45	0.45	mg/kg	1	
Acenaphthylene	ND	0.081	0.45	0.45	mg/kg	1	
Aniline	ND	0.21	0.45	0.45	mg/kg	1	
Anthracene	ND	0.072	0.45	0.45	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.090	0.45	0.45	mg/kg	1	
Benzidine	ND	1.1	4.5	4.5	mg/kg	1	
Benzo (a) anthracene	ND	0.063	0.45	0.45	mg/kg	1	
Benzo (a) pyrene	ND	0.072	0.45	0.45	mg/kg	1	
Benzo (b) fluoranthene	ND	0.063	0.45	0.45	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.054	0.90	0.90	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.45	0.45	mg/kg	1	
Benzoic acid	ND	1.7	23	23	mg/kg	1	
Benzyl alcohol	ND	0.13	0.45	0.45	mg/kg	1	

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-19 LN06341

Sampled: 05/29/13 09:30 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 04:13 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.081	0.45	0.45	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.45	0.45	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.45	0.45	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.45	0.45	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.45	0.45	mg/kg	1	
Carbazole	ND	0.081	0.45	0.45	mg/kg	1	
Chrysene	ND	0.081	0.45	0.45	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.045	0.90	0.90	mg/kg	1	
Dibenzofuran	ND	0.081	0.45	0.45	mg/kg	1	
Diethyl phthalate	ND	0.054	0.45	0.45	mg/kg	1	
Dimethyl phthalate	ND	0.80	2.3	2.3	mg/kg	1	
Di-n-butyl phthalate	ND	0.072	0.45	0.45	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.45	0.45	mg/kg	1	
Fluoranthene	ND	0.10	0.45	0.45	mg/kg	1	
Fluorene	ND	0.063	0.45	0.45	mg/kg	1	
Hexachlorobenzene	ND	0.072	0.45	0.45	mg/kg	1	
Hexachlorobutadiene	ND	0.081	0.45	0.45	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.45	0.45	mg/kg	1	
Hexachloroethane	ND	0.063	0.45	0.45	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.081	0.90	0.90	mg/kg	1	
Isophorone	ND	0.090	0.45	0.45	mg/kg	1	
Naphthalene	ND	0.10	0.45	0.45	mg/kg	1	
Nitrobenzene	ND	0.10	0.45	0.45	mg/kg	1	
N-Nitrosodimethylamine	ND	0.081	0.45	0.45	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.081	0.45	0.45	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.063	0.45	0.45	mg/kg	1	
Pentachlorophenol	ND	0.14	0.45	0.45	mg/kg	1	
Phenanthrene	ND	0.072	0.45	0.45	mg/kg	1	
Phenol	ND	0.14	0.45	0.45	mg/kg	1	
Pyrene	ND	0.072	0.45	0.45	mg/kg	1	
Pyridine	ND	0.045	0.90	0.90	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*66 %*	Conc:*29.8*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*74 %*	Conc:*16.7*		*39-100*	%		
Surr: 2-Fluorophenol	*88 %*	Conc:*40.0*		*26-115*	%		
Surr: Nitrobenzene-d5	*75 %*	Conc:*16.9*		*49-105*	%		
Surr: Phenol-d5	*81 %*	Conc:*36.9*		*36-105*	%		
Surr: Terphenyl-d14	*83 %*	Conc:*18.7*		*36-106*	%		

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-20 LN06343

Sampled: 05/29/13 09:34 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 04:44 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.088	0.49	0.49	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.49	0.49	mg/kg	1	
1,3-Dichlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.49	0.49	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.49	0.49	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.098	0.49	0.49	mg/kg	1	
2,6-Dinitrotoluene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chloronaphthalene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chlorophenol	ND	0.098	0.49	0.49	mg/kg	1	
2-Methylnaphthalene	ND	0.088	0.49	0.49	mg/kg	1	
2-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
2-Nitrophenol	ND	0.22	0.49	0.49	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.49	0.49	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.9	4.9	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.49	0.49	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.49	0.49	mg/kg	1	
4-Chloroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.088	0.49	0.49	mg/kg	1	
4-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Nitrophenol	ND	0.15	0.49	0.49	mg/kg	1	
Acenaphthene	ND	0.088	0.49	0.49	mg/kg	1	
Acenaphthylene	ND	0.088	0.49	0.49	mg/kg	1	
Aniline	ND	0.23	0.49	0.49	mg/kg	1	
Anthracene	ND	0.078	0.49	0.49	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.098	0.49	0.49	mg/kg	1	
Benzidine	ND	1.2	4.9	4.9	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (a) pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.98	0.98	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.49	0.49	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.49	0.49	mg/kg	1	

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800017

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-20 **LN06343**

Sampled: 05/29/13 09:34 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 04:44 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.088	0.49	0.49	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.49	0.49	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.49	0.49	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.49	0.49	mg/kg	1	
Butyl benzyl phthalate	**0.29**	0.15	0.49	0.49	mg/kg	1	J
Carbazole	ND	0.088	0.49	0.49	mg/kg	1	
Chrysene	ND	0.088	0.49	0.49	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.049	0.98	0.98	mg/kg	1	
Dibenzofuran	ND	0.088	0.49	0.49	mg/kg	1	
Diethyl phthalate	ND	0.059	0.49	0.49	mg/kg	1	
Dimethyl phthalate	ND	0.86	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.078	0.49	0.49	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.49	0.49	mg/kg	1	
Fluoranthene	ND	0.11	0.49	0.49	mg/kg	1	
Fluorene	ND	0.069	0.49	0.49	mg/kg	1	
Hexachlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
Hexachlorobutadiene	ND	0.088	0.49	0.49	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.49	0.49	mg/kg	1	
Hexachloroethane	ND	0.069	0.49	0.49	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.088	0.98	0.98	mg/kg	1	
Isophorone	ND	0.098	0.49	0.49	mg/kg	1	
Naphthalene	ND	0.11	0.49	0.49	mg/kg	1	
Nitrobenzene	ND	0.11	0.49	0.49	mg/kg	1	
N-Nitrosodimethylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.49	0.49	mg/kg	1	
Pentachlorophenol	ND	0.16	0.49	0.49	mg/kg	1	
Phenanthrene	ND	0.078	0.49	0.49	mg/kg	1	
Phenol	ND	0.15	0.49	0.49	mg/kg	1	
Pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Pyridine	ND	0.049	0.98	0.98	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*59 %*	Conc:*28.9*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*67 %*	Conc:*16.5*		*39-100*	%		
Surr: 2-Fluorophenol	*83 %*	Conc:*40.5*		*26-115*	%		
Surr: Nitrobenzene-d5	*71 %*	Conc:*17.4*		*49-105*	%		
Surr: Phenol-d5	*77 %*	Conc:*37.6*		*36-105*	%		
Surr: Terphenyl-d14	*73 %*	Conc:*17.9*		*36-106*	%		

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300018

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
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QUALITY CONTROL SECTION

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

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Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3F0001-BLK1)				Analyzed: 06/04/13 14:03						
1,2,4-Trichlorobenzene	ND	0.050	mg/kg							
1,2-Dichlorobenzene	ND	0.050	mg/kg							
1,3-Dichlorobenzene	ND	0.050	mg/kg							
1,4-Dichlorobenzene	ND	0.050	mg/kg							
2,4,5-Trichlorophenol	ND	0.050	mg/kg							
2,4,6-Trichlorophenol	ND	0.050	mg/kg							
2,4-Dichlorophenol	ND	0.050	mg/kg							
2,4-Dimethylphenol	ND	0.050	mg/kg							
2,4-Dinitrophenol	ND	2.5	mg/kg							
2,4-Dinitrotoluene	ND	0.050	mg/kg							
2,6-Dinitrotoluene	ND	0.050	mg/kg							
2-Chloronaphthalene	ND	0.050	mg/kg							
2-Chlorophenol	ND	0.050	mg/kg							
2-Methylnaphthalene	ND	0.050	mg/kg							
2-Methylphenol	ND	0.050	mg/kg							
2-Nitroaniline	ND	0.050	mg/kg							
2-Nitrophenol	ND	0.050	mg/kg							
3 & 4-Methylphenol	ND	0.050	mg/kg							
3,3'-Dichlorobenzidine	ND	0.25	mg/kg							
3-Nitroaniline	ND	0.050	mg/kg							
4,6-Dinitro-2-methylphenol	ND	0.50	mg/kg							
4-Bromophenyl phenyl ether	ND	0.050	mg/kg							
4-Chloro-3-methylphenol	ND	0.050	mg/kg							
4-Chloroaniline	ND	0.050	mg/kg							
4-Chlorophenyl phenyl ether	ND	0.050	mg/kg							
4-Nitroaniline	ND	0.050	mg/kg							
4-Nitrophenol	ND	0.050	mg/kg							
Acenaphthene	ND	0.050	mg/kg							
Acenaphthylene	ND	0.050	mg/kg							
Aniline	ND	0.050	mg/kg							
Anthracene	ND	0.050	mg/kg							
Azobenzene/1,2-Diphenylhydrazine	ND	0.050	mg/kg							
Benzidine	ND	0.50	mg/kg							
Benzo (a) anthracene	ND	0.050	mg/kg							
Benzo (a) pyrene	ND	0.050	mg/kg							
Benzo (b) fluoranthene	ND	0.050	mg/kg							
Benzo (g,h,i) perylene	ND	0.10	mg/kg							
Benzo (k) fluoranthene	ND	0.050	mg/kg							
Benzoic acid	ND	2.5	mg/kg							
Benzyl alcohol	ND	0.050	mg/kg							
Bis(2-chloroethoxy)methane	ND	0.050	mg/kg							
Bis(2-chloroethyl)ether	ND	0.050	mg/kg							
Bis(2-chloroisopropyl)ether	ND	0.050	mg/kg							
Bis(2-ethylhexyl)phthalate	0.0305	0.050	mg/kg					NR		J

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LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3F0001-BLK1)				Analyzed: 06/04/13 14:03						
Butyl benzyl phthalate	ND	0.050	mg/kg							
Carbazole	ND	0.050	mg/kg							
Chrysene	ND	0.050	mg/kg							
Dibenzo (a,h) anthracene	ND	0.10	mg/kg							
Dibenzofuran	ND	0.050	mg/kg							
Diethyl phthalate	ND	0.050	mg/kg							
Dimethyl phthalate	ND	0.25	mg/kg							
Di-n-butyl phthalate	0.0315	0.050	mg/kg					NR		J
Di-n-octyl phthalate	ND	0.050	mg/kg							
Fluoranthene	ND	0.050	mg/kg							
Fluorene	ND	0.050	mg/kg							
Hexachlorobenzene	ND	0.050	mg/kg							
Hexachlorobutadiene	ND	0.050	mg/kg							
Hexachlorocyclopentadiene	ND	0.050	mg/kg							
Hexachloroethane	ND	0.050	mg/kg							
Indeno (1,2,3-cd) pyrene	ND	0.10	mg/kg							
Isophorone	ND	0.050	mg/kg							
Naphthalene	ND	0.050	mg/kg							
Nitrobenzene	ND	0.050	mg/kg							
N-Nitrosodimethylamine	ND	0.050	mg/kg							
N-Nitrosodi-n-propylamine	ND	0.050	mg/kg							
N-Nitrosodiphenylamine	ND	0.050	mg/kg							
Pentachlorophenol	ND	0.050	mg/kg							
Phenanthrene	ND	0.050	mg/kg							
Phenol	ND	0.050	mg/kg							
Pyrene	ND	0.050	mg/kg							
Pyridine	ND	0.10	mg/kg							
Surr: 2,4,6-Tribromophenol	*4.31*		*mg/kg*	*5.00*		*86*	*40-97*			
Surr: 2-Fluorobiphenyl	*2.47*		*mg/kg*	*2.50*		*99*	*39-100*			
Surr: 2-Fluorophenol	*7.19*		*mg/kg*	*5.00*		*144*	*26-115*			*S-11*
Surr: Nitrobenzene-d5	*2.55*		*mg/kg*	*2.50*		*102*	*49-105*			
Surr: Phenol-d5	*5.47*		*mg/kg*	*5.00*		*109*	*36-105*			*S-11*
Surr: Terphenyl-d14	*2.80*		*mg/kg*	*2.50*		*112*	*36-106*			*S-11*
LCS (W3F0001-BS1)				Analyzed: 06/04/13 14:33						
1,2,4-Trichlorobenzene	1.94	0.050	mg/kg	2.50		78	28-120	NR		
1,4-Dichlorobenzene	1.98	0.050	mg/kg	2.50		79	41-98	NR		
2,4-Dinitrotoluene	2.07	0.050	mg/kg	2.50		83	43-121	NR		
2-Chlorophenol	1.96	0.050	mg/kg	2.50		78	22-123	NR		
4-Chloro-3-methylphenol	1.88	0.050	mg/kg	2.50		75	26-126	NR		
4-Nitrophenol	1.81	0.050	mg/kg	2.50		72	17-139	NR		
Acenaphthene	2.07	0.050	mg/kg	2.50		83	44-105	NR		
N-Nitrosodi-n-propylamine	2.00	0.050	mg/kg	2.50		80	24-128	NR		
Pentachlorophenol	1.80	0.050	mg/kg	2.50		72	20-116	NR		

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W3F0001-BS1)				Analyzed: 06/04/13 14:33						
Phenol	1.82	0.050	mg/kg	2.50		73	22-123	NR		
Pyrene	2.13	0.050	mg/kg	2.50		85	42-118	NR		
Surr: 2,4,6-Tribromophenol	*3.91*		*mg/kg*	*5.00*		*78*	*40-97*			
Surr: 2-Fluorobiphenyl	*2.15*		*mg/kg*	*2.50*		*86*	*39-100*			
Surr: 2-Fluorophenol	*4.65*		*mg/kg*	*5.00*		*93*	*26-115*			
Surr: Nitrobenzene-d5	*1.99*		*mg/kg*	*2.50*		*80*	*49-105*			
Surr: Phenol-d5	*4.22*		*mg/kg*	*5.00*		*84*	*36-105*			
Surr: Terphenyl-d14	*2.35*		*mg/kg*	*2.50*		*94*	*36-106*			
Matrix Spike (W3F0001-MS1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:03						
1,2,4-Trichlorobenzene	16.2	0.49	mg/kg	24.4	ND	66	26-124	NR		
1,4-Dichlorobenzene	16.9	0.49	mg/kg	24.4	ND	69	28-117	NR		
2,4-Dinitrotoluene	19.2	0.49	mg/kg	24.4	ND	79	26-132	NR		
2-Chlorophenol	16.4	0.49	mg/kg	24.4	ND	67	24-124	NR		
4-Chloro-3-methylphenol	15.9	0.49	mg/kg	24.4	ND	65	5-153	NR		
4-Nitrophenol	17.6	0.49	mg/kg	24.4	ND	72	0.6-139	NR		
Acenaphthene	17.6	0.49	mg/kg	24.4	ND	72	33-117	NR		
N-Nitrosodi-n-propylamine	16.5	0.49	mg/kg	24.4	ND	68	20-128	NR		
Pentachlorophenol	16.9	0.49	mg/kg	24.4	0.394	68	7-125	NR		
Phenol	15.8	0.49	mg/kg	24.4	ND	65	40-120	NR		
Pyrene	20.1	0.49	mg/kg	24.4	ND	83	22-148	NR		
Surr: 2,4,6-Tribromophenol	*34.6*		*mg/kg*	*48.8*		*71*	*40-97*			
Surr: 2-Fluorobiphenyl	*17.3*		*mg/kg*	*24.4*		*71*	*39-100*			
Surr: 2-Fluorophenol	*35.6*		*mg/kg*	*48.8*		*73*	*26-115*			
Surr: Nitrobenzene-d5	*16.1*		*mg/kg*	*24.4*		*66*	*49-105*			
Surr: Phenol-d5	*34.3*		*mg/kg*	*48.8*		*70*	*36-105*			
Surr: Terphenyl-d14	*21.4*		*mg/kg*	*24.4*		*88*	*36-106*			
Matrix Spike Dup (W3F0001-MSD1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:33						
1,2,4-Trichlorobenzene	14.9	0.48	mg/kg	23.9	ND	62	26-124	8	30	
1,4-Dichlorobenzene	15.5	0.48	mg/kg	23.9	ND	65	28-117	9	30	
2,4-Dinitrotoluene	15.8	0.48	mg/kg	23.9	ND	66	26-132	19	30	
2-Chlorophenol	15.3	0.48	mg/kg	23.9	ND	64	24-124	7	30	
4-Chloro-3-methylphenol	14.4	0.48	mg/kg	23.9	ND	60	5-153	10	30	
4-Nitrophenol	13.6	0.48	mg/kg	23.9	ND	57	0.6-139	25	30	
Acenaphthene	16.0	0.48	mg/kg	23.9	ND	67	33-117	10	30	
N-Nitrosodi-n-propylamine	14.2	0.48	mg/kg	23.9	ND	59	20-128	15	30	
Pentachlorophenol	12.3	0.48	mg/kg	23.9	0.394	50	7-125	31	30	MS-05
Phenol	14.5	0.48	mg/kg	23.9	ND	61	40-120	9	30	
Pyrene	15.6	0.48	mg/kg	23.9	ND	65	22-148	25	30	
Surr: 2,4,6-Tribromophenol	*27.8*		*mg/kg*	*47.8*		*58*	*40-97*			
Surr: 2-Fluorobiphenyl	*14.9*		*mg/kg*	*23.9*		*62*	*39-100*			
Surr: 2-Fluorophenol	*31.0*		*mg/kg*	*47.8*		*65*	*26-115*			
Surr: Nitrobenzene-d5	*14.6*		*mg/kg*	*23.9*		*61*	*49-105*			
Surr: Phenol-d5	*30.1*		*mg/kg*	*47.8*		*63*	*36-105*			

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike Dup (W3F0001-MSD1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:33						
Surr: Terphenyl-d14	*15.7*		*mg/kg*	*23.9*		*66*	*36-106*			

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Notes and Definitions

S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit
NR	Not Reportable

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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(714) 449-9937 | FAX (714) 449-9685

JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/4/2013
Client Address:	3777 Long Beach Blvd. Long Beach, CA 90807	**JEL Ref. No.:** **Client Ref. No.:**	A-7098 ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/4/2013
		Date Received:	6/4/2013
Project Name:	Tyrone	**Date Analyzed:**	6/4/2013
Project Address:	7600 Tryone Ave. Van Nuys, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B - Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers. Tubing placed in the ground for soil gas sampling was purged three different times as recommended by DTSC/RWQCB regulations. This purge test determined how many purges of the soil gas tubing were needed throughout the project. One, three and ten purge volumes were analyzed to make this determination.

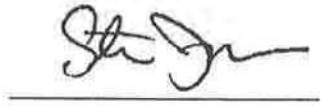
A tracer gas mixture of n-propanol and n-pentane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-propanol or n-pentane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min except when noted differently on the chain of custody record using a gas tight syringe. 1 purge volume was used since this purging level gave the highest results for the compound(s) of greatest interest.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for some length of time. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, Matrix Spike (MS) and Matrix Spike Duplicates (MSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity.

All samples were analyzed within 30 minutes of sampling.

Approval: 

Steve Jones, Ph.D.
Laboratory Manager

JONES ENVIRONMENTAL, INC.

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/4/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	A-7098
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/4/2013
		Date Received:	6/4/2013
Project:	Tyrone	**Date Analyzed:**	6/4/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP3-15 1P	VP3-15 3P	VP3-15 10P	VP3-5	VP2-5		
JEL ID:	A-7098-01	A-7098-02	A-7098-03	A-7098-04	A-7098-05	Practical Quantitation Limit	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	**0.033**	**0.014**	**0.029**	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	**0.896**	**0.810**	**0.872**	**0.316**	ND	0.008	µg/L
Chloromethane	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP3-15 1P	VP3-15 3P	VP3-15 10P	VP3-5	VP2-5		
JEL ID:	A-7098-01	A-7098-02	A-7098-03	A-7098-04	A-7098-05	Practical Quantitation Limit	Units
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.008	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	**0.057**	**0.048**	**0.054**	**0.059**	ND	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	**2.83**	**2.55**	**2.89**	**2.26**	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.008	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.008	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.040	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.008	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	89%	109%	103%	105%	109%	75 - 125	
Toluene-d_8	97%	99%	93%	98/%	100%	75 - 125	
4-Bromofluorobenzene	99%	97%	97%	97%	106%	75 - 125	
	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/4/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	A-7098
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/4/2013
		Date Received:	6/4/2013
Project:	Tyrone	**Date Analyzed:**	6/4/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP2-15	VP1-5	VP1-15	VP9-5	VP9-5 REP		
JEL ID:	A-7098-06	A-7098-07	A-7098-08	A-7098-09	A-7098-10	Practical Quantitation Limit	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	ND	0.008	µg/L
Chloromethane	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental	**Report date:**	6/14/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	ST-6995
	Long Beach, CA 90807	**Client Ref. No.:**	LDWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/12/2013
		Date Received:	6/12/2013
Project:	Tyrone Property	**Date Analyzed:**	6/13/2013
Project Address:	1600 Tyrone Ave	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV16-5'	SV16-15'	SV16-5' REP		
JEL ID:	ST-6995-01	ST-6995-02	ST-6995-03	Practical Quantitation Limit	Units
Analytes:					
Benzene	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	0.020	µg/L
Chloroethane	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	0.020	µg/L
Chloromethane	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	0.020	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV16-5'	SV16-15'	SV16-5' REP		
JEL ID:	ST-6995-01	ST-6995-02	ST-6995-03	Practical Quantitation Limit	Units
Analytes:					
cis-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	0.020	µg/L
Hexachlorobutadiene	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	0.020	µg/L
n-Propylbenzene	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
Tetrachloroethylene	ND	ND	ND	0.020	µg/L
Toluene	ND	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.020	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.020	µg/L
Trichloroethylene	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	0.020	µg/L
Xylenes	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	0.020	µg/L
Ethyl-tert-butylether	ND	ND	ND	0.020	µg/L
Di-isopropylether	ND	ND	ND	0.020	µg/L
tert-amylmethylether	ND	ND	ND	0.020	µg/L
tert-Butylalcohol	ND	ND	ND	0.100	µg/L
TIC:					
n-propanol	ND	ND	ND	0.020	µg/L
n-pentane	ND	ND	ND	0.020	µg/L
Dilution Factor	1	1	1		
Surrogate Recoveries:				**QC Limits**	
Dibromofluoromethane	95%	95%	99%	75 - 125	
Toluene-d_8	96%	91%	96%	75 - 125	
4-Bromofluorobenzene	94%	86%	95%	75 - 125	
	B1-061313-ST-6995	B1-061313-ST-6995	B1-061313-ST-6995		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental	**Report date:**	6/14/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	ST-6995
	Long Beach, CA 90807	**Client Ref. No.:**	LDWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/12/2013
		Date Received:	6/12/2013
Project:	Tyrone Property	**Date Analyzed:**	6/13/2013
Project Address:	1600 Tyrone Ave	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
JEL ID:	ST-6995-04	ST-6995-05	Practical Quantitation Limit	Units
Analytes:				
Benzene	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	0.020	µg/L
Bromoform	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	0.020	µg/L
Chloroethane	ND	ND	0.020	µg/L
Chloroform	ND	ND	0.020	µg/L
Chloromethane	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	0.020	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
JEL ID:	ST-6995-04	ST-6995-05	Practical Quantitation Limit	Units
Analytes:				
cis-1,3-Dichloropropene	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	0.020	µg/L
Freon 113	ND	ND	0.020	µg/L
Hexachlorobutadiene	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	0.020	µg/L
Naphthalene	ND	ND	0.020	µg/L
n-Propylbenzene	ND	ND	0.020	µg/L
Styrene	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.020	µg/L
Tetrachloroethylene	ND	ND	0.020	µg/L
Toluene	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.020	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	0.020	µg/L
Trichloroethylene	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	0.020	µg/L
Xylenes	ND	ND	0.020	µg/L
MTBE	ND	ND	0.020	µg/L
Ethyl-tert-butylether	ND	ND	0.020	µg/L
Di-isopropylether	ND	ND	0.020	µg/L
tert-amylmethylether	ND	ND	0.020	µg/L
tert-Butylalcohol	ND	ND	0.100	µg/L
TIC:				
n-propanol	ND	ND	0.020	µg/L
n-pentane	ND	ND	0.020	µg/L
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	98%	98%	75 - 125	
Toluene-d_8	101%	96%	75 - 125	
4-Bromofluorobenzene	100%	99%	75 - 125	
	B1-061313-ST-6995	B1-061313-ST-6995		

ND= Not Detected

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QUALITY CONTROL INFORMATION

Client:	Alta Environmental	**Report date:**	6/14/2013
Client Address:	3777 Long Beach Blvd. Long Beach, CA 90807	**JEL Ref. No.:**	ST-6995
		Client Ref. No.:	LDWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/12/2013
		Date Received:	6/12/2013
Project:	Tyrone Property	**Date Analyzed:**	6/13/2013
Project Address:	1600 Tyrone Ave Van Nuys, CA	**Physical State:**	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample Spiked: Ambient Air **GC#:** B1-061313-ST-6995

JEL ID:	**ST-6995-07**	**ST-6995-08**			**ST-6995-06**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	LCS	Acceptability Range (%)
1,1-Dichloroethylene	71%	67%	6.3%	70-130	76%	70-130
Benzene	100%	107%	6.1%	70-130	106%	70-130
Trichloroethylene	96%	98%	1.9%	70-130	100%	70-130
Toluene	98%	100%	2.7%	70-130	106%	70-130
Chlorobenzene	97%	101%	4.4%	70-130	104%	70-130
Surrogate Recovery:						
Dibromofluoromethane	98%	96%		75-125	84%	75-125
Toluene-d_8	97%	96%		75-125	101%	75-125
4-Bromofluorobenzene	98%	98%		75-125	82%	75-125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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Chain-of-Custody Record

Client: Alta Environmental
Project Name: Tyrone Property
Project Address: 1600 Tyrone Ave, Van Nuys, CA
Project Contact: Kristyn Drake

Date: 6/12/13
Client Project #: LDWP-13-1198

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☒ Normal
- ☐ Mobile Lab

SOIL GAS
Purge Number: ☒ 1P ☐ 3P ☐ 7P ☐ 10P
Purge Rate: 200 cc/min
Shut In Test Y / N
Tracer:
- ☐ n-propanol
- ☐ n-pentane
- ☐ 1,1-DFA
- ☐ Helium
- ☐ ______

JEL Project # ST6995
Page 1 of 1

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Analysis Requested

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	8260B - VOCs			Magnehelic Vacuum (in/H2O)	Number of Containers	Remarks/Special Instructions
SV16-5'		1	6/12/13	1422			SG	X			-5	1	SUMMA (S#: 1490)
SV16-15'		1	↓	1410	~~1410~~ (KD)		SG	X			-5	1	SUMMA
SV16-5' REP		1	↓	1428			SG	X			-5	1	SUMMA

① Relinquished by (signature): [signature]
Company: Alta Environmental
Date: 6/12/13
Time: 1415

② Received by (signature): [signature]
Company: JEL
Date: 6/12/13
Time: 1415

③ Relinquished by (signature):
Company:
Date:
Time:

④ Received by Laboratory (signature):
Company:
Date:
Time:

Total Number of Containers: 3

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

July 25, 2013

George Faeustle
Los Angeles Department of Water and Power
Environmental Affairs
111 N. Hope Street, Room 1050
Los Angeles, California 92649

Re: Surface Soil and Soil Gas Sampling Report, Tyrone Site, 7600 Tyrone Avenue, Van Nuys, California 91405

Alta Environmental Project No. LDWP-13-1198

Dear Mr. Faeustle:

Alta Environmental is pleased to present the Surface Soil and Soil Gas Sampling Report for the Tyrone Site. Please refer to the report for our findings and conclusions.

If you have any questions, please call me at (562) 495-5777.

For and on behalf of Alta Environmental

Steven Morrill

Steve Morrill, PE

Senior Project Manager/Engineer III

ALTA ENVIRONMENTAL

SURFACE SOIL AND SOIL GAS SAMPLING REPORT

Tyrone Site
7600 Tyrone Avenue
Van Nuys, California 91405

Prepared for

City of Los Angeles Department of Water and Power
Environmental Affairs
111 N. Hope Street, Room 1050
Los Angeles, California, 90012

LDWP-13-1198
July 25, 2013

Alta Environmental
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807 United States of America
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CONTENTS

SIGNATORY

This report has been prepared by

Kristyn Drake
Associate Consultant II

Steve Morrill, PE
Senior Project Manager/Senior Engineer III

EXECUTIVE SUMMARY

Alta Environmental (Alta) conducted a Surface Soil and Soil Gas Investigation for the Los Angeles Department of Water and Power (LADWP) on the former Quest Diagnostics property located at 7600 Tyrone Avenue, Van Nuys, California (the "Site). The Site is unoccupied and is listed for sale as a commercial/industrial property. The purpose of the investigation was to assess potential hazardous substance contamination at the Site prior to site acquisition. A Site Location Map is provided as Figure 1.

Site Description

The Site was an unoccupied bioscience laboratory prior to the investigation and consisted of nine buildings, parking areas, facility equipment, and chemical and hazardous material storage areas on the western and central section of the Site, and a vacant field containing an abandoned residential dwelling, bunny house, construction equipment, and construction material storage areas on the eastern portion of the Site. During field implementation of the investigation, the building structures on the Site were under active asbestos and lead-based paint abatement and demolition. Historical uses at the Site included agricultural activities up to 1965, when the initial building construction began at the Site. A Site Layout is provided as Figure 2.

Previous Investigations

Past environmental investigations at the Site included a Phase I Environmental Site Assessment (ESA) prepared for Quest Diagnostics, Inc. (ODIC, October 22, 2010), a Phase I ESA prepared for Shubin-Nadal Realty Investors (AMEC, August 22, 2012a), and a Screening Level Phase II Investigation prepared for Shubin-Nadal Realty Investors (AMEC, September 28, 2012b).

Based on the results of the Phase I ESAs (ODIC, 2010 and AMEC, 2012a) and Screening Level Phase II Investigation (AMEC, 2012b) the following conclusions were made:

- The soil gas data do not suggest a significant release has occurred at the site that would require mitigation for commercial development. Soil sample data suggest metals are not present at concentrations indicative of environmental impact and generally are consistent with typical background concentrations. The few low concentrations of volatile organic compounds (VOCs) and relatively low and heavier end hydrocarbons detected in shallow soil do not suggest significant impacts are present in the areas investigated (AMEC, 2012b).
- Based on information obtained from other properties in the general site vicinity of the Site, the anticipated depth to groundwater beneath the site is assumed to be between 200 and 250 feet below ground surface (bgs) (Regional Water Quality Control Board's [RWQCB's] online Geotracker database).

Environmental Concerns and Investigation Objectives

The primary objective of this investigation was to assess any subsurface impacts to the soil and soil gas at the Site from former use as a bioscience laboratory, historical structures, and former agricultural use.

Shallow Soil Matrix and Soil Gas Sampling

On May 28 and 29, 2013, a total of 30 shallow borings (B1 – B30) were drilled at the Site. All soil borings were continuously cored from surface to the terminus depth of 3 feet bgs using a direct-push drill rig. Soil matrix samples were collected from each boring at 1, 2, and 3 feet bgs using a core sampler lined with acetate sleeves. Soil boring locations are presented in Figure 3.

Following sample collection, the sample containers were properly capped, sealed, labeled, and stored in a chilled ice chest for transport under chain-of-custody documentation for analysis or archiving to LADWP's State of California-certified laboratory (Certificate No. 1207) located in Los Angeles, California. All soil samples designated for volatile analysis were preserved using in-field preservation kits in accordance with EPA Method 5035. The 1 and 3 foot samples from each boring were variously analyzed for Title 22 Metals by EPA Method 6010B, organochlorine pesticides (OCPs) by EPA Method 8081A, polychlorinated biphenyls (PCBs) by EPA Method 8082, total petroleum hydrocarbons (TPH) by EPA Method 8015M, semivolatile organic compounds (SVOCs) by EPA Method 8270C, and VOCs by EPA Method 8260B. The shallow soil sampling and analysis plan is presented as Table 1.

On May 30 and 31, 2013 soil gas probes were installed at 15 boring locations (VP1 through VP15) at 5 and 15 feet bgs. On June 4 and 5, 2013, the soil gas probes were sampled and analyzed by Jones Environmental, Inc.'s on-site mobile laboratory. Samples were not collected from gas probes at VP4 and VP5 due to inaccessibility from stockpiled demolition debris.

On June 12, 2013, soil gas probes were installed in boring location VP16 in the vicinity of the former septic tank/cesspool at 5 and 15 feet bgs. Following probe installation and a minimum 2 hours of equilibration time, the gas probes at VP16 were sampled using SUMMA® canisters and analyzed by Jones Environmental's fixed laboratory.

All soil gas samples collected for this investigation were analyzed for VOCs by EPA Method 8260B by Jones Environmental Laboratory. The soil gas samples included 28 primary samples, two (2) purge volume samples, and three (3) field replicates for a total of 33 soil gas samples. The soil gas sampling and analysis plan is presented as Table 2. Soil gas boring locations are presented in Figure 3.

Findings

The following surface soil sample results are presented in milligrams per kilogram (mg/kg) and micrograms per kilogram (µg/kg) as identified in Tables 3 through 8. The following soil gas sample results are presented in micrograms per liter (µg/L) as identified in Table 9. Some data have been qualified by the laboratory as "J-flagged" indicating that the detected concentration is an estimated value between the method detection limit (MDL) and the practical quantitation limit (PQL).

- No VOCs or PCBs were detected in any of the surface soil samples submitted for analysis.
- Surface soil samples variously exhibited detected concentrations of:
    - Title 22 Metals including antimony (not detected above the laboratory reporting limit [ND] to 4.2J mg/kg), barium (99 to 300 mg/kg), cadmium (1.8J to 4.1 mg/kg), chromium (10 to 23 mg/kg), cobalt (7.8 to 21 mg/kg), copper (7.7J to 22 mg/kg), lead (6.7 to 42 mg/kg), molybdenum (ND to 0.50J mg/kg), nickel (12.3 to 24 mg/kg), vanadium (19 to 38 mg/kg), zinc (36 to 124 mg/kg), and mercury (ND to 0.048 mg/kg). In addition, silver was detected in one sample (B22-1') at 7.4J mg/kg;
    - SVOCs including benzo(g,h,i)perylene (ND to 0.11J mg/kg), butyl benzyl phthalate (ND to 0.29J mg/kg), and indeno(1,2,3-cd)pyrene (ND to 0.17J mg/kg). In addition, dibenzo(a,h)antrhacene and pentachlorophenol were detected in one sample (B21-1') at 0.099J mg/kg and 0.39J mg/kg, respectively;

  - OCPs including 2,4-DDD (ND to 36 µg/kg), 2,4-DDT (ND to 190 µg/kg), 4,4-DDE (ND to 740 µg/kg), 4,4-DDT (ND to 270 µg/kg), beta-hexachlorocyclohexane (beta-BHC; ND to 42 µg/kg), and toxaphene (ND to 2,400 µg/kg); and
  - TPH as total extractable petroleum hydrocarbons (TEPH; ND to 60.6 mg/kg [as motor oil]);
- Soil gas samples exhibited detected concentrations of VOCs including carbon tetrachloride (ND to 0.035 µg/L), chloroform (ND to 0.896 µg/L), Freon 113 (ND to 2.82 µg/L), tetrachloroethylene (PCE; ND to 0.059 µg/L), and trichloroethylene (TCE; ND to 2.89 µg/L). In addition, 1,1-dichloroethene (1,1-DCE) was detected in one sample (VP13-15') at a concentration of 0.118 µg/L.

Conclusions

The following conclusions have been made based on the shallow soil and soil gas sample results:

- Concentrations of Title 22 Metals and SVOCs in soil are below the Environmental Protection Agency's, Pacific Southwest Region 9, Regional Screening Levels (RSLs) developed for a commercial/industrial scenario.
- Concentrations of OCPs in soil are below the California Environmental Protection Agency (Cal/EPA), Office of Environmental Health Hazard Assessment (OEHHA), residential and commercial/industrial California Human Health Screening Levels (CHHSLs), with the exception of toxaphene detected in one sample (B16-3'; 2,400 µg/kg), which exceeded the commercial/industrial CHHSL of 1,800 µg/kg.
- Concentrations of TPH detected in soil are below the Los Angeles California Regional Water Quality Control Board's (LARWQCB) maximum soil screening levels above drinking water aquifers greater than 150 feet bgs (LARWQCB, Table 4-1, May 1996) for TPH as gasoline (1,000 mg/kg), TPH as diesel (10,000 mg/kg), and TPH as motor oil (50,000 mg/kg).
- Concentrations of VOCs detected in soil gas are below the Cal/EPA (2010) CHHSLs for shallow soil gas (engineered fill) in a commercial/industrial land use scenario, for carbon tetrachloride (0.21 µg/L), PCE (1.6 µg/L), and TCE (4.4 µg/L). No CHHSLs are documented by Cal/EPA for the VOCs 1,1-DCE, Freon 113, and chloroform in soil gas.

It should be noted that the RSLs, CHHSLs, and Maximum Soil Screening Levels have been used as a general comparison, and are not regulatory standards and/or acceptable concentrations. These levels are used as benchmark values to determine whether further assessment and evaluation of the constituents detected in soil and soil gas, are required for the Site.

Recommendations

Based on analytical data, and the findings of this investigation, additional assessment work is not warranted at this time. However, any unknown subsurface structures or potentially contaminated soil encountered during site demolition and construction should be investigated for potential hazardous substances impacts to the property.

Additional assessment around sample location B16 at 3 feet bgs (B16-3') may be warranted in order to define the lateral and vertical extent of OCP (toxaphene) impacts in the area as necessary, and where disturbance of shallow soil in that area is anticipated during any site redevelopment activities.

1 INTRODUCTION

Alta Environmental, on behalf of the City of Los Angeles Department of Water and Power (LADWP), has prepared this Surface Soil and Soil Gas Sampling Report for the Tyrone Property (Site), a 17 acre property located at 7600 Tyrone Avenue, Van Nuys, California. A Site Location Map and Site Layout Map are provided as Figures 1 and 2, respectively.

The primary objective of the investigation was to assess the current surface soil conditions at the Site for potential chemicals of concern, including Title 22 Metals, organochlorine pesticides (OCPs), polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH), semivolatile organic compounds (SVOCs), and volatile organic compounds (VOCs). A Soil Sampling and Analysis Plan (Alta Environmental, April 26, 2013) was completed and submitted to the LADWP for review. In addition, an investigation was conducted in the vicinity of the onsite structures to assess the current soil gas conditions at the Site for potential VOC impacts. The LADWP is considering acquisition of the Site.

2 BACKGROUND

2.1 Site Description

The Site is located at 7600 Tyrone Avenue, in Van Nuys, California. A Site Location Map is presented as Figure 1. The eastern portion of the Site consists of an approximately 4 acre vacant lot that is unpaved. The remaining western portion of the Site was under demolition and construction activities by the owner at the time of the investigation. A Site Layout Map is presented as Figure 2.

The Site is currently unoccupied but was previously developed with a bioscience laboratory on the western and central section that consisted of nine buildings, parking areas, facility equipment, and chemical and hazardous material storage areas. The eastern portion of the Site contained a vacant field (approximately four acres) containing an abandoned residential-type dwelling, bunny house, construction equipment, and construction material storage areas. The vacant field was also used as a farm for laboratory animals. Historical uses at the Site include agricultural activities up to 1965, when the initial building construction began at the Site.

2.2 Previous Site Investigations

Past environmental investigations at the Site included a Phase I Environmental Site Assessment (ESA) prepared for Quest Diagnostics, Inc. (ODIC, October 22, 2010), a Phase I ESA prepared for Shubin-Nadal Realty Investors (AMEC, August 22, 2012a), and a Screening Level Phase II Investigation prepared for Shubin-Nadal Realty Investors (AMEC, September 28, 2012b).

Based on the results of the Phase I ESAs (ODIC, 2010 and AMEC, 2012a) and Screening Level Phase II Investigation (AMEC, 2012b) the following conclusions were made:

- The soil gas data do not suggest a significant release has occurred at the site that would require mitigation for commercial development. Soil sample data suggest metals are not present at concentrations indicative of environmental impact and generally are consistent with typical background concentrations. The few low concentrations of VOCs and relatively low and heavier end hydrocarbons

detected in shallow soil do not suggest significant impacts are present in the areas investigated (AMEC, 2012b).

- Based on information obtained from other properties in the general site vicinity of the Site, the anticipated depth to groundwater beneath the site is assumed to be between 200 and 250 feet below ground surface (bgs) (Regional Water Quality Control Board's [RWQCB's] online Geotracker database).

3 REGIONAL GEOLOGY AND HYDROGEOLOGIC SETTING

The following Site geologic and hydrogeologic setting information has been adapted from AMEC's Phase I Environmental Site Assessment Report (AMEC, 2012a).

3.1 Geologic Setting

The subject property is located in the San Fernando Valley Groundwater Basin (SFGWB). This basin is bounded on the north and northeast by the San Gabriel Mountains, the north and northwest by the Santa Susana Mountains, on the south by the Santa Monica Mountains and Chalk Hills, on the west by the Simi Hills, and the east by the San Rafael Hills (California Department of Water Resources [CDWR], 2003). Water bearing units within the SFGWB consist of the lower Pleistocene Saugus Formation, and Pleistocene and Holocene age alluvium.

Alluvium of Holocene age consists mainly of coarse-grained unsorted gravel and sand deposited by alluvial fans that originate in the surrounding mountains and hills (CDWR, 2003). Maximum thicknesses throughout the basin range from 100 feet in the north to 400 feet in the east to 800 feet in the west and a maximum thickness of 900 feet near Burbank, California (CDWR, 2003). Pleistocene age alluvium is dominated by highly permeable, unconsolidated coarse-grained alluvial fan deposits interspersed with lower permeability paleosols (CDWR, 2003).

The Saugus Formation is made up of shallow and continental marine deposits; mainly conglomerates, sands, silts, and clays (CDWR, 2003). This formation is between 2000 and 3000 feet thick in the western and eastern margins of the basin, with its greatest thickness in the center of the basin around 6,400 feet. There are many structural features within the San Fernando Valley Basin, especially on the north side of the basin; however, there is only one that is near the subject property. The closest feature is the Northridge Hills fault, which trends northwest to southeast and is located approximately 2.4 miles northwest of the subject site (AMEC, 2012a).

During the soil and soil gas sampling conducted on May 28, 2013 through June 12, 2013, soils encountered by Alta Environmental included poorly graded fine grained sands, silty sands, sandy silts, and silts.

3.2 Hydrogeologic Setting

The general basin trend in groundwater flow is east-southeast towards the Los Angeles Narrows and into the Central Subbasin of the Coastal Plain of Los Angeles Basin with local depth to water of approximately 200 feet bgs (ULARA, 2012).

No groundwater wells were identified at the site; however, AMEC identified one groundwater well at 7777 Lemona Avenue and two wells at 7803 Lemona Avenue in Van Nuys, all of which are located between ½ to

¾ mile west of the site (ENSR, 2005). Depth to groundwater in these wells was measured at approximately 250 feet bgs on May 10, 2012 with a reported groundwater flow direction to the southeast. Surface elevations at the Lemona Avenue sites (approximately 779 feet above mean sea level [msl]) are similar to the subject property (770 msl); therefore depth to groundwater at the subject property is expected to be within a similar range at greater than 200 feet bgs (AMEC, 2012a).

4 SURFACE SOIL SAMPLING AND SOIL GAS INVESTIGATION

4.1 Pre-Field Activities

The following was conducted prior to the field investigation activities:

- A site-specific health and safety plan (HASP) was prepared in general accordance with the guidelines set forth in Title 8 of the California Code of Regulations (CCR), Section 5192 (8 CCR 5192), and Title 29 of the Code of Federal Regulations (CFR) Part 1926.650 (29 CFR 1926.650). All field personnel reviewed and signed the HASP prior to beginning the field work.
- Underground Service Alert (USA) was notified on May 3, 2013, a minimum of 48-hours prior to the start of the field sampling activities (USA ticket # A31231015-00A).

4.2 Geophysical Survey

On May 6, 2013, through May 17, 2013 Alta Environmental contracted with Spectrum Geophysics to perform a geophysical survey of the northeast portion of the Site (approximately 1 acre) and clearance of the soil gas boring locations around the vicinity of the existing buildings in the western portion of the Site.

During the geophysical survey of the northeast portion of the Site, an EM-61 high-sensitivity metal detector was used in an effort to identify areas where metallic objects (ie. USTs, metal debris, and conduits) may have been buried. Once identified, these EM-61 anomalies were investigated further using GPR and EM-utility locating methods.

A total of fifteen EM-61 anomalies were detected in the subsurface throughout the Site. The anomalies appeared to be associated with various buried construction debris and long piping runs, including the storm drain channel running along the northern boundary of the property. Various linear trending anomalies (water/sewer and gas connections) were also identified throughout the survey area with the shallow metal detector and GPR units.

It should be noted that the location of subsurface objects and utilities is dependent upon the recognition of physical phenomena at the ground surface. These phenomena can be magnetic fields or electro-magnetic waves that give rise to a surface expression which in turn is interpreted as representative of subsurface objects. These waves, however, may be attenuated and/or distorted by a number of factors including soil moisture, corrosion, and proximity to other surface and subsurface facilities. At the time of the survey, various surface interferences, including soil stockpiles, stockpiled construction debris, metallic debris, reinforced concrete pads, and metal fencing, existed at the Site. A copy of the geophysical survey report is provided as Appendix A.

4.3 Soil Matrix Sampling and Analysis

On May 28 and 29, 2013, a total of 30 shallow borings (B1 – B30) were drilled at the Site. All soil borings were continuously cored from surface to the terminus depth of 3 feet bgs using a direct-push drill rig. Soil matrix samples were collected from each boring at 1, 2, and 3 feet bgs using a core sampler lined with acetate sleeves. Soil boring locations are presented in Figure 3 (Boring Location Map).

Following sample collection, the sample containers were properly capped, sealed, labeled, and stored in a chilled ice chest for transport under chain-of-custody documentation for analysis or archiving to LADWP's State of California-certified laboratory (Certificate No. 1207) located in Los Angeles, California. All soil samples designated for volatile analysis were preserved using in-field preservation kits in accordance with EPA Method 5035. The 1 and 3 foot samples from each boring were variously analyzed for Title 22 Metals by EPA Method 6010B, OCPs by EPA Method 8081A, PCBs by EPA Method 8082, TPH by EPA Method 8015M, SVOCs by EPA Method 8270C, and VOCs by EPA Method 8260B. The shallow soil sampling and analysis plan is presented as Table 1.

Analytical results for soil and soil gas sampling are provided in Section 5 (Analytical Results). The laboratory analytical report and chain-of-custody documentation for the surface soil samples are presented in Appendix B.

4.4 Soil Gas Sampling and Analysis

On May 30 and 31, 2013 soil gas probes were installed at 15 boring locations (VP1 through VP15) at 5 and 15 feet bgs. On June 4 and 5, 2013, the soil gas probes were sampled and analyzed by Jones Environmental, Inc.'s on-site mobile laboratory. Samples were not collected from gas probes at VP4 and VP5 due to inaccessibility from stockpiled demolition debris. On June 12, 2013, soil gas probes were installed in boring location VP16 in the vicinity of the former septic tank/cesspool at 5 and 15 feet bgs. Following probe installation and a minimum 2 hours of equilibration time, the gas probes at VP16 were sampled using SUMMA® canisters and analyzed by the Jones Environmental fixed laboratory.

Soil Gas boring locations are presented in Figure 3. The gas probe installation, sampling, and analysis are summarized as follows:

Probe Installation: At each boring location, soil gas probes were installed at five (5) and 15 feet bgs. Each soil gas probe was placed within a one-foot sand pack. One foot of dry granular bentonite was placed on top of each sand pack to preclude the infiltration of hydrated bentonite grout. The boreholes were then grouted between probes and to the surface with hydrated bentonite. Nylaflo® tubing (¼ inch) was connected from the gas point to the surface. The end of the tubing was labeled with the gas well number, depth, and date and time of construction, and a three-way valve was installed to eliminate ambient air diffusion into the well.

Purge Volume Test: A three-volume purge test (one [1], three [3], and ten [10] purge volumes) was conducted at sampling location VP3-15' to establish the optimal purge volume to be used for the probes in accordance with the Department of Toxic Substances Control (DTSC) and Los Angeles/San Francisco Regional Water Quality Control Boards (RWQCB) *Advisory – Active Soil Gas Investigations (April 2012)* protocol. The purge flow rate was approximately 200 milliliters per minute (mL/min). Based on the purge volume test, the optimal purge volume was determined to be one (1) due to the highest detections of VOCs.

Sample Collection: Soil gas samples were collected from each probe following the removal of the appropriate purge volume in 100-milliliter glass air-tight syringes or SUMMA canisters. The sample syringes were not exposed to any sunlight that may degrade light-sensitive VOCs. Soil gas samples were collected at a sampling rate of 200 ml/min or less. The samples were immediately transferred to the on-site mobile laboratory for direct injection into a gas chromatograph, or transported to the fixed laboratory for analysis in accordance with the procedures presented in the DTSC and Los Angeles/San Francisco RWQCB's *Advisory – Active Soil Gas Investigations (April 2012)*, which are consistent with EPA Method 8260B. All soil gas samples collected were documented on a chain-of-custody form for the soil gas analysis.

Leak Test: A leak test was conducted at each soil gas probe location to determine whether leakage was present. A mixture of n-propanol and n-pentane was used as the source of the tracer compound. The tracer gas compound was not detected in any of the soil gas samples.

Mobile Laboratory and Fixed Laboratory Analysis: The soil gas samples collected for this investigation were analyzed for VOCs by EPA Method 8260B by an on-site mobile and fixed laboratory. The soil gas samples included 28 primary samples, two (2) purge volume samples, and three (3) field replicates for a total of 33 soil gas samples. The soil gas sampling and analysis plan is presented as Table 2.

The laboratory analytical report and chain-of-custody documentation for the soil gas samples are presented in Appendix B.

4.5 Equipment Decontamination

All reusable drilling and sampling equipment were cleaned before each use utilizing a three-bucket wash consisting of a non-phosphate detergent wash, tap water, and distilled water.

4.6 Field Observations

No odors or staining were observed in the soil samples collected during the investigation. In addition, no (0.0 parts per million [ppm]) photo-ionization detector (PID) readings were observed in the screened soil samples. No groundwater was encountered in the borings to a maximum depth of 15 feet bgs.

4.7 Site Geology

The soils encountered during the surface soil sampling and soil gas probe installation consisted of poorly graded fine grained sands, silty sands, sandy silts, and silts. Soil borings were logged continuously using the Unified Soils Classification System (UCSC) and screened with a PID calibrated to 50 parts per million (ppm) as hexane. The boring logs for each soil boring are provided in Appendix C.

5 ANALYTICAL RESULTS

The following surface soil sample results are presented in milligrams per kilogram (mg/kg) and micrograms per kilogram (µg/kg) as identified in Tables 3 through 8. The following soil gas sample results are presented in micrograms per liter (µg/L) as identified in Table 9. Some data have been qualified by the laboratory as "J-flagged" indicating that the detected concentration is an estimated value between the method detection limit (MDL) and the practical quantitation limit (PQL).

- No VOCs or PCBs were detected in any of the surface soil samples submitted for analysis.

- Surface soil samples variously exhibited detected concentrations of:
  - Title 22 Metals including antimony (not detected above the laboratory reporting limit [ND] to 4.2J mg/kg), barium (99 to 300 mg/kg), cadmium (1.8J to 4.1 mg/kg), chromium (10 to 23 mg/kg), cobalt (7.8 to 21 mg/kg), copper (7.7J to 22 mg/kg), lead (6.7 to 42 mg/kg), molybdenum (ND to 0.50J), nickel (12.3 to 24 mg/kg), vanadium (19 to 38 mg/kg), zinc (36 to 124 mg/kg), and mercury (ND to 0.048 mg/kg). In addition, silver was detected in one sample (B22-1') at 7.4J mg/kg;
  - SVOCs including benzo(g,h,i)perylene (ND to 0.11J mg/kg), butyl benzyl phthalate (ND to 0.29J mg/kg), and indeno(1,2,3-cd)pyrene (ND to 0.17J mg/kg). In addition, dibenzo(a,h)antrhacene and pentachlorophenol were detected in one sample (B21-1') at 0.099J mg/kg and 0.39J mg/kg, respectively;
  - OCPs including 2,4-DDD (ND to 36 µg/kg), 2,4-DDT (ND to 190 µg/kg), 4,4-DDE (ND to 740 µg/kg), 4,4-DDT (ND to 270 µg/kg), beta-hexachlorocyclohexane (beta-BHC; ND to 42 µg/kg), and toxaphene (ND to 2,400 µg/kg); and
  - TPH as total extractable petroleum hydrocarbons (TEPH; ND to 60.6 mg/kg [as motor oil]);
- Soil gas samples exhibited detected concentrations of VOCs including carbon tetrachloride (ND to 0.035 µg/L), chloroform (ND to 0.896 µg/L), Freon 113 (ND to 2.82 µg/L), tetrachloroethylene (PCE; ND to 0.059 µg/L), and trichloroethylene (TCE; ND to 2.89 µg/L). In addition, 1,1-dichloroethene (1,1-DCE) was detected in one sample (VP13-15') at a concentration of 0.118 µg/L.

6 CONCLUSIONS

The surface soil and soil gas investigation completed at the Site between May 28, 2013 and June 12, 2013 included the advancement of 30 surface soil borings and 16 soil gas borings. Based on the shallow soil sample and the soil gas sample analytical results, Alta Environmental makes the following conclusions:

- Concentrations of Title 22 Metals and SVOCs in soil are below the California Environmental Protection Agency's (CalEPA, Region 9) Regional Screening Levels (RSLs) developed for a commercial/industrial scenario.
- Concentrations of OCPs in soil are below the Cal/EPA, Office of Environmental Health Hazard Assessment (OEHHA), residential and commercial/industrial California Human Health Screening Levels (CHHSLs), with the exception of toxaphene detected in one sample (B16-3'; 2,400 µg/kg), which exceeded the commercial/industrial CHHSL of 1,800 µg/kg.
- Concentrations of TPH detected in soil are below the Los Angeles California Regional Water Quality Control Board's (LARWQCB) maximum soil screening levels above drinking water aquifers greater than 150 feet bgs (LARWQCB, Table 4-1, May 1996) for TPH as gasoline (1,000 mg/kg), TPH as diesel (10,000 mg/kg), and TPH as motor oil (50,000 mg/kg).
- Concentrations of VOCs detected in soil gas are below the Cal/EPA (2010) CHHSLs for shallow soil gas (engineered fill) in a commercial/industrial land use scenario, for carbon tetrachloride (0.21 µg/L), PCE (1.6 µg/L), and TCE (4.4 µg/L). No CHHSLs are documented by OEHHA/CalEPA for the VOCs 1,1-DCE, Freon 113, and chloroform in soil gas.

It should be noted that the RSLs, CHHSLs, and Maximum Soil Screening Levels have been used as a general comparison, and are not regulatory standards and/or acceptable concentrations. These levels are used as benchmark values to determine whether further assessment and evaluation of the constituents detected in soil and soil gas, are required for the Site.

7 RECOMMENDATIONS

Based on analytical data, and the findings of this investigation, additional assessment work is not warranted at this time. However, any unknown subsurface structures or potentially contaminated soil encountered during site demolition and construction should be investigated for potential hazardous substances impacts to the property.

Additional assessment around sample location B16 at 3 feet bgs (B16-3') may be warranted in order to define the lateral and vertical extent of OCP (toxaphene) impacts in the area as necessary, and where disturbance of shallow soil in that area is anticipated during any site redevelopment activities.

8 ASSUMPTIONS AND LIMITATIONS

This report was prepared exclusively for use by the City of Los Angeles Department of Water and Power, and may not be relied upon by any other person or entity without Alta Environmental's express written permission. The information, conclusions and recommendations described in this report apply to conditions existing at certain locations when services were performed and are intended only for the specific purposes, locations, time frames and project parameters indicated. Alta Environmental cannot be responsible for the impact of any charges in environmental standards, practices or regulations after performance of services.

In performing our professional services, we have applied present engineering and scientific judgement and used a level of effort consistent with the current standard of practice for similar types of studies.

As applicable, Alta Environmental has relied in good faith upon representations and information furnished by individuals with respect to operations and existing property conditions, to the extent that they have not been contradicted by data obtained from other sources. Accordingly, Alta Environmental accepts no responsibility for any deficiencies, omissions, misrepresentations, or fraudulent acts of persons interviewed.

Alta Environmental will not accept any liability for loss, injury claim, or damage arising directly or indirectly from any use or reliance on this report. Alta Environmental makes no warranty, expressed or implied.

This report is issued with the understanding that the client, the property owner, or its representative is responsible for ensuring that the information, conclusions, and recommendations contained herein are brought to the attention of the appropriate regulatory agencies, as required.

9 REFERNCES

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4. California Environmental Protection Agency (Cal/EPA), Office of Environmental Health Hazard Assessment, *Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties, Soil Screening Numbers.* September 29, 2010 Updated.
5. California Department of Water Resources (CDWR), 2003, California's Groundwater: Bulletin 118.
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7. California Regional Water Quality Control Board, Los Angeles Region (LARWQCB), *Interim Site Assessment and Cleanup Guidebook, May 1996 Guidance for VOC-impacted Sites Soil Screening Levels,* Table 4-1: Maximum Soil Screening Levels (mg/kg) for TPH and BTEX above Drinking Water Aquifers. May, 1996.
8. Department of Toxic Substances Control and California Regional Water Quality Control Board, Los Angeles Region, *Advisory – Active Soil Gas Investigations,* January 2003.
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11. Upper Los Angeles River Area Watermaster, Annual Report, "Watermaster Service in the Upper Los Angeles River Area (ULARA) Los Angeles County, California, 2010 – 2011 Water Year, October 1, 2010 – September 30, 2011".

Tables

Tables 1 through 9

TABLE 1
Surface Soil Sample and Analysis Plan
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Boring Nos.	Sample Rationale	Analytical Program
B1 – B12	Lead based paint from existing and historic structures.	Lead (6010B)
B13 – B20	Former agriculture activities.	Arsenic (6010B)
		OCPs (8081A)
B21 – B24	Various surface soil stains, equipment storage, and hazardous waste storage.	Metals (6010B/7471A)
		TPH Full Scan (8015M)
		SVOCs (8270C)
		PCBs (8082)
B25 – B28	Import soil.	Metals (6010B/7471A)
		TPH Full Scan (8015M)
		VOCs (8260B)
		SVOCs (8270C)
		PCBs (8082)
B29 – B30	Railroad ties and saw dust piles.	TPH diesel/oil (8015M)
		SVOCs (8270C)

NOTES:
OCPs – Organochlorine Pesticides by EPA Method 8081A
PCBs – Polychlorinated Biphenyls by EPA Method 8082
VOCs – Volatile Organic Compounds by EPA Method 8260B
SVOCs – Semi Volatile Organic Compounds by EPA Method 8270C
Metals – Title 22 Metals by EPA Method 6010B/7471A
TPH Full Scan – Total Petroleum Hydrocarbons as gasoline, diesel, and oil by EPA Method 8015M
TPH diesel/oil – Total Petroleum Hydrocarbons as diesel and oil by EPA Method 8015M
Lead – Lead by EPA Method 6010B
Arsenic – Arsenic by EPA Method 6010B

TABLE 2
Soil Gas Sampling and Analysis Plan
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Sample ID	Sample Depth (ft. bgs)	Surface Type	Sampling Method	Sample Rationale	Analytical Program
VP1	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Emergency generator location, east side of Building G	VOCs
	15				
VP2	5	Planter Area - Unpaved	Geoprobe/ Direct Push	Floor drain, along perimeter of Building F	VOCs
	15				
VP3	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Emergency generator, rinsing area, uncovered floor drain, potential location of "floor drain blank"	VOCs
	15				
VP4	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Former diesel generator	VOCs
	15				
VP5	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Miscelaneous storage area, unknown buckets of liquid	VOCs
	15				
VP6	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Former diesel generator and boilers	VOCs
	15				
VP7	5	Planter Area - Unpaved	Geoprobe/ Direct Push	Floor drains, along perimeter of Building C	VOCs
	15				
VP8	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Floor drains, along perimeter of Building C	VOCs
	15				
VP9	5	Planter Area - Unpaved	Geoprobe/ Direct Push	Second boring along perimeter of Building F	VOCs
	15				
VP10	5	Planter Area - Unpaved	Geoprobe/ Direct Push	One of two borings along perimeter of Building A; side of fume hoods	VOCs
	15				
VP11	5	Planter Area - Unpaved	Geoprobe/ Direct Push	Second of two borings along perimeter of Building A; side of fume hoods	VOCs
	15				
VP12	5	Planter Area - Unpaved	Geoprobe/ Direct Push	South side of Building D	VOCs
	15				
VP13	5	Planter Area - Unpaved	Geoprobe/ Direct Push	South side of Building E	VOCs
	15				
VP14	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Perimeter of Building G	VOCs
	15				
VP15	5	Asphalt and/or concrete	Geoprobe/ Direct Push	Perimeter of Building G	VOCs
	15				
VP16	5	Unpaved	Geoprobe/ Direct Push	Vicinity of Former Septic Tank/Cesspool	VOCs
	15				

Notes:

VOCs analysis analyzed by EPA Method 8260B.
bgs – below ground surface

TABLE 3
Shallow Soil Sample Results - Title 22 Metals
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Sample ID	Sample Date	Title 22 Metals by EPA Method 6010B/7471A (mg/kg)																
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
	MDL (mg/kg):	5.0	5.0	5.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.00002
	RL (mg/kg):	5.0	5.0	5.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.0001
RSLs[1] (mg/kg):	Resident.	310	0.39	15,000	160	70	180,000*	23	3,100	400	390	1,500	390	390	1.6	390	23,000	10
	Comm./Indust.	4,100	1.60	190,000	2,000	800	180,000*	300	41,000	800	5,100	20,000	5,100	5,100	20	5,200	310,000	43
B1-1'	5/28/2013	•	•	•	•	•	•	•	•	9.8	•	•	•	•	•	•	•	•
B1-3'	5/28/2013	•	•	•	•	•	•	•	•	12	•	•	•	•	•	•	•	•
B2-1'	5/28/2013	•	•	•	•	•	•	•	•	11	•	•	•	•	•	•	•	•
B2-3'	5/28/2013	•	•	•	•	•	•	•	•	15	•	•	•	•	•	•	•	•
B3-1'	5/28/2013	•	•	•	•	•	•	•	•	12	•	•	•	•	•	•	•	•
B3-3'	5/28/2013	•	•	•	•	•	•	•	•	12	•	•	•	•	•	•	•	•
B4-1'	5/28/2013	•	•	•	•	•	•	•	•	11	•	•	•	•	•	•	•	•
B4-3'	5/28/2013	•	•	•	•	•	•	•	•	12	•	•	•	•	•	•	•	•
B5-1'	5/28/2013	•	•	•	•	•	•	•	•	52	•	•	•	•	•	•	•	•
B5-3'	5/28/2013	•	•	•	•	•	•	•	•	11	•	•	•	•	•	•	•	•
B6-1'	5/28/2013	•	•	•	•	•	•	•	•	5.7	•	•	•	•	•	•	•	•
B6-3'	5/28/2013	•	•	•	•	•	•	•	•	10	•	•	•	•	•	•	•	•
B7-1'	5/28/2013	•	•	•	•	•	•	•	•	50	•	•	•	•	•	•	•	•
B7-3'	5/28/2013	•	•	•	•	•	•	•	•	15	•	•	•	•	•	•	•	•
B8-1'	5/28/2013	•	•	•	•	•	•	•	•	24	•	•	•	•	•	•	•	•
B8-3'	5/28/2013	•	•	•	•	•	•	•	•	72	•	•	•	•	•	•	•	•
B9-1'	5/28/2013	•	•	•	•	•	•	•	•	22	•	•	•	•	•	•	•	•
B9-3'	5/28/2013	•	•	•	•	•	•	•	•	14	•	•	•	•	•	•	•	•
B10-1'	5/28/2013	•	•	•	•	•	•	•	•	15	•	•	•	•	•	•	•	•
B10-3'	5/28/2013	•	•	•	•	•	•	•	•	15	•	•	•	•	•	•	•	•
B11-1'	5/28/2013	•	•	•	•	•	•	•	•	13	•	•	•	•	•	•	•	•
B11-3'	5/28/2013	•	•	•	•	•	•	•	•	17	•	•	•	•	•	•	•	•
B12-1'	5/28/2013	•	•	•	•	•	•	•	•	27	•	•	•	•	•	•	•	•
B12-3'	5/28/2013	•	•	•	•	•	•	•	•	15	•	•	•	•	•	•	•	•
B13-1'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B13-3'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B14-1'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B14-3'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B15-1'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B15-3'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B16-1'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B16-3'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B17-1'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B17-3'	5/29/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B18-1'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B18-3'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B19-1'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B19-3'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B20-1'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B20-3'	5/28/2013	•	ND	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
B21-1'	5/28/2013	4.6J	ND	263	ND	3.4	22.5	17	22	18	ND	22	ND	ND	ND	42	77	0.024
B21-3'	5/28/2013	3.7J	ND	254	ND	3.0J	20	16	18	14	ND	24	ND	ND	ND	34	61	0.015
B22-1'	5/28/2013	2.9J	ND	170	ND	2.6J	18	10	15	48	ND	16	ND	7.4J	ND	26	191	0.042
B22-3'	5/28/2013	3.6J	ND	301	ND	2.4J	16.4	14	15	11	ND	18	ND	ND	ND	28	48	0.013

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TABLE 3
Shallow Soil Sample Results - Title 22 Metals
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Sample ID	Sample Date	Title 22 Metals by EPA Method 6010B/7471A (mg/kg)																
		Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Mercury
MDL (mg/kg):		5.0	5.0	5.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.00002
RL (mg/kg):		5.0	5.0	5.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	0.0001
RSLs[1] (mg/kg):	Resident.	310	0.39	15,000	160	70	180,000*	23	3,100	400	390	1,500	390	390	1.6	390	23,000	10
	Comm./Indust.	4,100	1.60	190,000	2,000	800	180,000*	300	41,000	800	5,100	20,000	5,100	5,100	20	5,200	310,000	43
B23-1'	5/29/2013	3.3J	ND	218	ND	3.3	20	15	21	39	ND	20	ND	ND	ND	31	124	0.048
B23-3'	5/29/2013	4.0J	ND	300	ND	4	23	20	22	15	ND	24	ND	ND	ND	38	79	0.021
B24-1'	5/29/2013	3.3J	ND	205	ND	3.2	19	16	18	42	ND	20	ND	ND	ND	30	93	0.024
B24-3'	5/29/2013	4.2J	ND	296	ND	4.1	23	21	22	16	ND	24	ND	ND	ND	37	78	0.023
B25-1'	5/28/2013	3.3J	ND	194	ND	2.42J	16.4	13.5	13.5	10.5	ND	16.6	ND	ND	ND	28	48	0.009
B25-3'	5/28/2013	4.2J	ND	281	ND	3.0J	23	16	19	13	ND	24	ND	ND	ND	37	60	0.013
B26-1'	5/28/2013	1.3J	ND	81	ND	1.1J	7.8	5.5	11.6	6	ND	9.9	ND	ND	ND	18	26	0.021
B26-3'	5/28/2013	3.1J	ND	195	ND	2.9J	19	16	13	11	ND	20	ND	ND	ND	31	56	0.0.12
B27-1'	5/29/2013	2.7J	ND	180	ND	3.1	18	14	14	12	0.50J	20	ND	ND	ND	30	59	0.020
B27-3'	5/29/2013	3.8J	ND	256	ND	3.6	23	18	20	14	ND	23	ND	ND	ND	35	74	0.020
B28-1'	5/29/2013	2.0J	ND	99	ND	1.8J	10	7.8	7.7J	6.7	0.44J	12.3	ND	ND	ND	19	36	0.0093
B28-3'	5/29/2013	4.0J	ND	263	ND	3.7	22	19	21	18	ND	22	ND	ND	ND	35	78	0.019

NOTES:
mg/kg = milligrams per kilogram
ND = Not Detected; below MDL
MDL = Method Detection Limit
RL = Reporting Limit
J = Concentration above the MDL and below the RL
- = Not Analyzed
[1] EPA Region 9 Regional Screenig Levels (RSLs) for residential and commercial settings
* No RSL information available; Protection of groundwater Soil Screening Level (SSL) based on maximum contaminant level (MCL) provided for reference

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TABLE 4
Shallow Soil Sample Results - OCPs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

OCPs by EPA Method 8081A	CHHSLs* (µg/kg)		Sample ID:		B13-1'	B13-3'	B14-1'	B14-3'	B16-1'	B16-3'	B18-1'	B18-3'
			Date:		5/29/2013	5/29/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013
	Resident.	Comm./ Indust.	MDL:	MRL:	OCP Concentraiton (µg/kg)							
2,4'-DDD	2,300	9,000	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
2,4'-DDE	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
2,4'-DDT	1,600	6,300	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	190
4,4'-DDD	—	—	4.0 - 4.8	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	1,600	6,300	6.3 - 7.7	21 - 25	40	ND	ND	ND	ND	15	ND	740
4,4'-DDT	1,600	6,300	4.5 - 5.5	21 - 25	10	ND	ND	ND	ND	7.8	ND	270
Aldrin	—	—	9.5 - 12	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	—	—	11 - 15	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	NA	NA	6.5 - 7.9	21 - 25	ND	ND	ND	ND	ND	ND	ND	37
Chlordane (tech)	—	—	84 - 100	410 - 500	ND	ND	ND	ND	ND	ND	ND	ND
cis-Nonachlor	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
DCPA	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	—	—	4.7 - 5.7	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	—	—	6.2 - 7.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	—	—	4.7 - 5.7	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	—	—	2.6 - 3.2	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	—	—	4.4 - 5.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	—	—	5.8 - 7.0	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	—	—	3.8 - 4.6	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	—	—	8.2 - 10	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	—	—	11 - 14	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	—	—	7.5 - 9.1	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Kepone	—	—	180 - 220	410 - 500	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	—	—	4.5 - 5.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	—	—	6.4 - 7.8	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Oxychlordane	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	460	1,800	71 - 85	620 - 750	ND	ND	ND	ND	ND	ND	ND	2,400
trans-Nonachlor	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
OCPs = Organochlorine Pesticides
MDL = Method Detection Limit
MRL = Method Reporting Limit
µg/kg = micrograms per kilogram
ND = Not detected at or above the MDL
NA = Information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of OCPs

Indicates concentration exceeds the commercial/industrial CHHSL

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TABLE 4
Shallow Soil Sample Results - OCPs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

OCPs by EPA Method 8081A	CHHSLs* (µg/kg)		Sample ID:		B18-1'	B18-3'	B19-1'	B19-3'	B20-1'	B20-3'	B26-1'	B26-3'
			Date:		5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013
	Resident.	Comm./ Indust.	MDL:	MRL:	OCP Concentraiton (µg/kg)							
2,4'-DDD	2,300	9,000	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	36
2,4'-DDE	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
2,4'-DDT	1,600	6,300	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	94
4,4'-DDD	—	—	4.0 - 4.8	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
4,4'-DDE	1,600	6,300	6.3 - 7.7	21 - 25	ND	ND	ND	ND	ND	ND	ND	440
4,4'-DDT	1,600	6,300	4.5 - 5.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	260
Aldrin	—	—	9.5 - 12	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
alpha-BHC	—	—	11 - 15	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
alpha-Chlordane	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
beta-BHC	NA	NA	6.5 - 7.9	21 - 25	ND	ND	ND	ND	ND	ND	ND	42
Chlordane (tech)	—	—	84 - 100	410 - 500	ND	ND	ND	ND	ND	ND	ND	ND
cis-Nonachlor	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
DCPA	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
delta-BHC	—	—	4.7 - 5.7	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Dieldrin	—	—	6.2 - 7.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan I	—	—	4.7 - 5.7	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan II	—	—	2.8 - 3.2	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endosulfan sulfate	—	—	4.4 - 5.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin aldehyde	—	—	5.8 - 7.0	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Endrin ketone	—	—	3.8 - 4.6	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
gamma-BHC (Lindane)	—	—	11 - 13	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
gamma-Chlordane	—	—	8.2 - 10	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor	—	—	11 - 14	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Heptachlor epoxide	—	—	7.5 - 9.1	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Kepone	—	—	180 - 220	410 - 500	ND	ND	ND	ND	ND	ND	ND	ND
Methoxychlor	—	—	4.5 - 5.5	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Mirex	—	—	6.4 - 7.8	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Oxychlordane	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND
Toxaphene	460	1,800	71 - 85	620 - 750	ND	ND	ND	ND	ND	ND	ND	1,500
trans-Nonachlor	—	—	21 - 25	21 - 25	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:
OCPs = Organochlorine Pesticides
MDL = Method Detection Limit
MRL = Method Reporting Limit
µg/kg = micrograms per kilogram
ND = Not detected at or above the MDL
NA = Information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of OCPs

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TABLE 5
Shallow Soil Sample Results - PCBs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Sample ID	Sample Date	PCBs by EPA Method 8082 (mg/kg)					
		PCB 1221	PCB 1232	PCB 1242	PCB 1248	PCB 1254	PCB 1260
	MDL (mg/kg):	0.07	0.07	0.07	0.07	0.07	0.07
	PQL (mg/kg):	0.2	0.2	0.2	0.2	0.2	0.2
B23-1'	5/29/2013	ND	ND	ND	ND	ND	ND
B23-3'	5/29/2013	ND	ND	ND	ND	ND	ND
B24-1'	5/28/2013	ND	ND	ND	ND	ND	ND
B24-3'	5/28/2013	ND	ND	ND	ND	ND	ND
B25-1'	5/28/2013	ND	ND	ND	ND	ND	ND
B25-3'	5/28/2013	ND	ND	ND	ND	ND	ND
B26-1'	5/28/2013	ND	ND	ND	ND	ND	ND
B26-3'	5/28/2013	ND	ND	ND	ND	ND	ND
B27-1'	5/29/2013	ND	ND	ND	ND	ND	ND
B27-3'	5/29/2013	ND	ND	ND	ND	ND	ND
B28-1'	5/29/2013	ND	ND	ND	ND	ND	ND
B28-3'	5/29/2013	ND	ND	ND	ND	ND	ND

NOTES:
PCB = Polychlorinated Biphenyls
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
mg/kg = milligrams per kilogram
ND = Indicates constituents not detected; below MDL

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TABLE 6
Shallow Soil Sample Results - TPH
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

Sample ID	Sample Date	TPH by EPA Method 8015M (mg/kg)			
		TEPH (C9-C36)	GRO (C4-C12)	DRO (C10-28)	Motor Oil (C29-C36)
MDL (mg/kg):		4	1.1	29	35
PQL (mg/kg):		20	5.5	145	175
B21-1'	05/28/13	12.6J	ND	ND	ND
B21-3'	05/28/13	ND	ND	ND	ND
B22-1'	05/28/13	12.6J	ND	ND	ND
B22-3'	05/28/13	ND	ND	ND	ND
B23-1'	05/29/13	ND	ND	ND	ND
B23-3'	05/29/13	4.2J	ND	ND	ND
B24-1'	05/29/13	60.6	ND	ND	60.6J
B24-3'	05/29/13	4.4J	ND	ND	ND
B25-1'	05/28/13	12.5J	ND	ND	ND
B25-3'	05/28/13	ND	ND	ND	ND
B26-1'	05/28/13	4.4J	ND	ND	ND
B26-3'	05/28/13	ND	ND	ND	ND
B27-1'	05/29/13	4.0J	ND	ND	ND
B27-3'	05/29/13	13.1J	ND	ND	ND
B28-1'	05/29/13	ND	ND	ND	ND
B28-3'	05/29/13	ND	ND	ND	ND
B29-1'	05/28/13	12.6J	ND	ND	ND
B29-3'	05/28/13	4.1J	ND	ND	ND
B30-1'	05/28/13	12.7J	ND	ND	ND
B30-3'	05/28/13	12.4J	ND	ND	ND
Maximum Soil Screening Levels* (mg/kg):		—	1,000	10,000	50,000

NOTES:
ND = Indicates constituents not detected; below MDL
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
J = Concentration above the MDL but below the PQL
TEPH = total extractable petroleum hydrocarbons
TPH = total petroleum hydrocarbons
GRO = gasoline range organics
DRO = diesel range organics
mg/kg = milligrams per kilogram
— = information not available
* The LARWQCB Maximum Soil Screening Levels are are provided for TPH in soil above drinking water aquifers greater than 150 bgs (LARWQCB Table 4-1, May 1996)

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TABLE 7
Shallow Soil Sample Results - SVOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

SVOCs by EPA Method 8270C	RSLs Soil* (mg/kg)		Sample ID:		B21-1'	B21-3'	B22-1'	B22-3'	B23-1'
			Date:		5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013
	Resident.	Comm./ Indust.	MDL:	MRL:	SVOC Concentration (mg/kg)				
1,2,4-Trichlorobenzene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dichlorophenol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dimethylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dinitrophenol	—	—	3.4 - 3.8	22 - 25	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chloronaphthalene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chlorophenol	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylnaphthalene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitrophenol	—	—	0.19 - 0.22	0.44 - 0.50	ND	ND	ND	ND	ND
3 & 4-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	—	—	1.3 - 1.5	2.2 - 2.5	ND	ND	ND	ND	ND
3-Nitroaniline	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	—	—	1.4 - 1.5	4.4 - 5.0	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitrophenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthylene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Aniline	—	—	0.2 - 0.23	0.44 - 0.50	ND	ND	ND	ND	ND
Anthracene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Azobenzene/1,2-Diphenylhydrazine	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Benzidine	—	—	1.1 - 1.3	4.4 - 5.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(a)pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	NA	0.053 - 0.060	0.88 - 1.0	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Benzoic acid	—	—	1.7 - 1.9	22 - 25	ND	ND	ND	ND	ND
Benzyl alcohol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Butyl benzyl phthalate	260	910	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Carbazole	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Chrysene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.016	0.21	0.044 - 0.050	0.88 - 1.0	0.099J	ND	ND	ND	ND
Dibenzofuran	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Diethyl phthalate	—	—	0.053 - 0.060	0.44 - 0.50	ND	ND	ND	ND	ND
Dimethyl phthalate	—	—	0.76 - 0.86	2.2 - 2.5	ND	ND	ND	ND	ND
Di-n-butyl phthalate	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Di-n-octyl phthalate	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Fluoranthene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Fluorene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachloroethane	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.15	2.1	0.080 - 0.090	0.88 - 1.0	0.15J	ND	ND	ND	ND
Isophorone	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Naphthalene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Nitrobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Pentachlorophenol	0.89	2.7	0.14 - 0.16	0.44 - 0.50	0.39J	ND	ND	ND	ND
Phenanthrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Phenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Pyridine	—	—	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND

NOTES:
SVOC = Semivolatile Organic Compound
MDL = Method Detection Limit
MRL = Method Reporting Limit
ND = indicated constituents not detected; below method detection limit
mg/kg = milligrams per kilogram
J = Analyte detected. However, concentration is an estimated value, between the MDL and the MRL
RSLs = Regional Screening Levels
NA = Information not available
— = Not applicable
*EPA Region 9 Regional Screening Levels (RSLs) for residential and commercial settings. Information provided for detected concentrations of SVOCs

ALTA ENVIRONMENTAL

TABLE 7
Shallow Soil Sample Results - SVOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

SVOCs by EPA Method 8270C	RSLs Soil* (mg/kg)		Sample ID:		B23-3'	B24-3'	B24-3'	B25-3'	B26-3'
			Date:		5/29/2013	5/29/2013	5/29/2013	5/29/2013	5/29/2013
	Resident.	Comm./ Indust.	MDL:	MRL:	SVOC Concentration (mg/kg)				
1,2,4-Trichlorobenzene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dichlorophenol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dimethylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dinitrophenol	—	—	3.4 - 3.8	22 - 25	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chloronaphthalene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chlorophenol	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylnaphthalene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitrophenol	—	—	0.19 - 0.22	0.44 - 0.50	ND	ND	ND	ND	ND
3 & 4-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	—	—	1.3 - 1.5	2.2 - 2.5	ND	ND	ND	ND	ND
3-Nitroaniline	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	—	—	1.4 - 1.5	4.4 - 5.0	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitrophenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthylene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Aniline	—	—	0.2 - 0.23	0.44 - 0.50	ND	ND	ND	ND	ND
Anthracene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Azobenzene/1,2-Diphenylhydrazine	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Benzidine	—	—	1.1 - 1.3	4.4 - 5.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(a)pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	NA	0.053 - 0.060	0.88 - 1.0	ND	ND	ND	0.11J	ND
Benzo(k)fluoranthene	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Benzoic acid	—	—	1.7 - 1.9	22 - 25	ND	ND	ND	ND	ND
Benzyl alcohol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Butyl benzyl phthalate	260	910	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	0.28J	ND
Carbazole	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Chrysene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.016	0.21	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND
Dibenzofuran	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Diethyl phthalate	—	—	0.053 - 0.060	0.44 - 0.50	ND	ND	ND	ND	ND
Dimethyl phthalate	—	—	0.76 - 0.86	2.2 - 2.5	ND	ND	ND	ND	ND
Di-n-butyl phthalate	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Di-n-octyl phthalate	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Fluoranthene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Fluorene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachloroethane	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.15	2.1	0.080 - 0.090	0.88 - 1.0	ND	ND	ND	0.15J	ND
Isophorone	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Naphthalene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Nitrobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Pentachlorophenol	0.89	2.7	0.14 - 0.16	0.44 - 0.50	ND	ND	ND	ND	ND
Phenanthrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Phenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Pyridine	—	—	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND

NOTES:
SVOC = Semivolatile Organic Compound
MDL = Method Detection Limit
MRL = Method Reporting Limit
ND = indicated constituents not detected; below method detection limit
mg/kg = milligrams per kilogram
J = Analyte detected. However, concentration is an estimated value, between the MDL and the MRL
RSLs = Regional Screening Levels
NA = Information not available
— = Not applicable
*EPA Region 9 Regional Screening Levels (RSLs) for residential and commercial settings. Information provided for detected concentrations of SVOCs

TABLE 7
Shallow Soil Sample Results - SVOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

SVOCs by EPA Method 8270C	RSLs Soil* (mg/kg)		Sample ID:		B28-1'	B28-3'	B27-1'	B27-3'	B26-1'
			Date:		5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013
	Resident.	Comm./ Indust.	MDL:	MRL:	SVOC Concentration (mg/kg)				
1,2,4-Trichlorobenzene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dichlorophenol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dimethylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dinitrophenol	—	—	3.4 - 3.8	22 - 25	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chloronaphthalene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chlorophenol	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylnaphthalene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitrophenol	—	—	0.19 - 0.22	0.44 - 0.50	ND	ND	ND	ND	ND
3 & 4-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	—	—	1.3 - 1.5	2.2 - 2.5	ND	ND	ND	ND	ND
3-Nitroaniline	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	—	—	1.4 - 1.5	4.4 - 5.0	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitrophenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthylene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Aniline	—	—	0.2 - 0.23	0.44 - 0.50	ND	ND	ND	ND	ND
Anthracene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Azobenzene/1,2-Diphenylhydrazine	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Benzidine	—	—	1.1 - 1.3	4.4 - 5.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(a)pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	NA	0.053 - 0.060	0.88 - 1.0	ND	ND	ND	ND	ND
Benzo(k)fluoranthene	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Benzoic acid	—	—	1.7 - 1.9	22 - 25	ND	ND	ND	ND	ND
Benzyl alcohol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Butyl benzyl phthalate	260	910	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Carbazole	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Chrysene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.016	0.21	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND
Dibenzofuran	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Diethyl phthalate	—	—	0.053 - 0.060	0.44 - 0.50	ND	ND	ND	ND	ND
Dimethyl phthalate	—	—	0.76 - 0.86	2.2 - 2.5	ND	ND	ND	ND	ND
Di-n-butyl phthalate	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Di-n-octyl phthalate	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Fluoranthene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Fluorene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachloroethane	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.15	2.1	0.080 - 0.090	0.88 - 1.0	ND	ND	ND	ND	ND
Isophorone	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Naphthalene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Nitrobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Pentachlorophenol	0.89	2.7	0.14 - 0.16	0.44 - 0.50	ND	ND	ND	ND	ND
Phenanthrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Phenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Pyridine	—	—	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND

NOTES:
SVOC = Semivolatile Organic Compound
MDL = Method Detection Limit
MRL = Method Reporting Limit
ND = indicated constituents not detected; below method detection limit
mg/kg = milligrams per kilogram
J = Analyte detected. However, concentration is an estimated value, between the MDL and the MRL
RSLs = Regional Screening Levels
NA = Information not available
— = Not applicable
*EPA Region 9 Regional Screening Levels (RSLs) for residential and commercial settings. Information provided for detected concentrations of SVOCs

TABLE 7
Shallow Soil Sample Results - SVOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

SVOCs by EPA Method 8270C	RSLs Soil* (mg/kg)		Sample ID:		B28-3'	B29-1'	B28-3'	B30-1'	B31-3'
			Date:		5/28/2013	5/28/2013	5/28/2013	5/28/2013	5/28/2013
	Resident.	Comm./ Indust.	MDL:	MRL:	SVOC Concentration (mg/kg)				
1,2,4-Trichlorobenzene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
1,2-Dichlorobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,5-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4,6-Trichlorophenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dichlorophenol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dimethylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2,4-Dinitrophenol	—	—	3.4 - 3.8	22 - 25	ND	ND	ND	ND	ND
2,4-Dinitrotoluene	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2,6-Dinitrotoluene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chloronaphthalene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
2-Chlorophenol	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylnaphthalene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
2-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
2-Nitrophenol	—	—	0.19 - 0.22	0.44 - 0.50	ND	ND	ND	ND	ND
3 & 4-Methylphenol	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
3,3'-Dichlorobenzidine	—	—	1.3 - 1.5	2.2 - 2.5	ND	ND	ND	ND	ND
3-Nitroaniline	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
4,6-Dinitro-2-methylphenol	—	—	1.4 - 1.5	4.4 - 5.0	ND	ND	ND	ND	ND
4-Bromophenyl phenyl ether	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloro-3-methylphenol	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chloroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Chlorophenyl phenyl ether	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitroaniline	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
4-Nitrophenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Acenaphthylene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Aniline	—	—	0.2 - 0.23	0.44 - 0.50	ND	ND	ND	ND	ND
Anthracene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Azobenzene/1,2-Diphenylhydrazine	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Benzidine	—	—	1.1 - 1.3	4.4 - 5.0	ND	ND	ND	ND	ND
Benzo(a)anthracene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(a)pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(b)fluoranthene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Benzo(g,h,i)perylene	NA	NA	0.053 - 0.060	0.88 - 1.0	ND	0.12J	ND	ND	ND
Benzo(k)fluoranthene	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Benzoic acid	—	—	1.7 - 1.9	22 - 25	ND	ND	ND	ND	ND
Benzyl alcohol	—	—	0.12 - 0.13	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethoxy)methane	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroethyl)ether	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-chloroisopropyl)ether	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Bis(2-ethylhexyl)phthalate	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Butyl benzyl phthalate	260	910	0.13 - 0.15	0.44 - 0.50	0.29J	ND	ND	ND	ND
Carbazole	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Chrysene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Dibenzo(a,h)anthracene	0.015	0.21	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND
Dibenzofuran	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Diethyl phthalate	—	—	0.053 - 0.060	0.44 - 0.50	ND	ND	ND	ND	ND
Dimethyl phthalate	—	—	0.76 - 0.86	2.2 - 2.5	ND	ND	ND	ND	ND
Di-n-butyl phthalate	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Di-n-octyl phthalate	—	—	0.12 - 0.14	0.44 - 0.50	ND	ND	ND	ND	ND
Fluoranthene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Fluorene	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobenzene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachlorocyclopentadiene	—	—	0.11 - 0.12	0.44 - 0.50	ND	ND	ND	ND	ND
Hexachloroethane	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Indeno(1,2,3-cd)pyrene	0.15	2.1	0.080 - 0.090	0.88 - 1.0	ND	0.17J	ND	ND	ND
Isophorone	—	—	0.088 - 0.10	0.44 - 0.50	ND	ND	ND	ND	ND
Naphthalene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
Nitrobenzene	—	—	0.097 - 0.11	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodimethylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodi-n-propylamine	—	—	0.080 - 0.090	0.44 - 0.50	ND	ND	ND	ND	ND
N-Nitrosodiphenylamine	—	—	0.062 - 0.070	0.44 - 0.50	ND	ND	ND	ND	ND
Pentachlorophenol	0.89	2.7	0.14 - 0.16	0.44 - 0.50	ND	ND	ND	ND	ND
Phenanthrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Phenol	—	—	0.13 - 0.15	0.44 - 0.50	ND	ND	ND	ND	ND
Pyrene	—	—	0.071 - 0.080	0.44 - 0.50	ND	ND	ND	ND	ND
Pyridine	—	—	0.044 - 0.050	0.88 - 1.0	ND	ND	ND	ND	ND

NOTES:

SVOC = Semivolatile Organic Compound

MDL = Method Detection Limit

MRL = Method Reporting Limit

ND = indicated constituents not detected; below method detection limit

mg/kg = milligrams per kilogram

J = Analyte detected. However, concentration is an estimated value, between the MDL and the MRL

RSLs = Regional Screening Levels

NA = Information not available

— = Not applicable

*EPA Region 9 Regional Screening Levels (RSLs) for residential and commercial settings. Information provided for detected concentrations of SVOCs

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TABLE 8
Shallow Soil Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs by EPA Method 8260B	MDL:	PQL:	Sample ID: BSS-1' Date: 6/28/2013	BSS-3' 6/28/2013	BSS-1' 6/28/2013	BSS-3' 6/28/2013
			VOC Concentration (µg/kg)			
Acetone	32	160	ND	ND	ND	ND
tert-Amyl methyl ether (TAME)	23	115	ND	ND	ND	ND
Benzene	26	130	ND	ND	ND	ND
Bromobenzene	26	130	ND	ND	ND	ND
Bromochloromethane	24	120	ND	ND	ND	ND
Bromodichloromethane	22	110	ND	ND	ND	ND
Bromoform	23	115	ND	ND	ND	ND
Bromomethane	20	100	ND	ND	ND	ND
Methyl ethyl ketone (MEK)	26	130	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	373	1865	ND	ND	ND	ND
Butylbenzene	29	145	ND	ND	ND	ND
sec-Butylbenzene	27	135	ND	ND	ND	ND
tert-Butylbenzene	29	145	ND	ND	ND	ND
tert-Butyl ethyl ether (ETBE)	20	100	ND	ND	ND	ND
Carbon disulfide	116	580	ND	ND	ND	ND
Carbon Tetrachloride	32	160	ND	ND	ND	ND
Chlorobenzene	28	140	ND	ND	ND	ND
Chloroethane	42	210	ND	ND	ND	ND
2-Chloroethyl vinyl ether	23	115	ND	ND	ND	ND
Chloroform	30	150	ND	ND	ND	ND
Chloromethane	70	350	ND	ND	ND	ND
2-Chlorotoluene	27	135	ND	ND	ND	ND
4-Chlorotoluene	28	140	ND	ND	ND	ND
Dibromochloromethane	25	125	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	31	155	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	23	115	ND	ND	ND	ND
Dibromomethane	33	165	ND	ND	ND	ND
1,2-Dichlorobenzene	27	135	ND	ND	ND	ND
1,3-Dichlorobenzene	27	135	ND	ND	ND	ND
1,4-Dichlorobenzene	33	165	ND	ND	ND	ND
Dichlorodifluoromethane	37	185	ND	ND	ND	ND
1,1-Dichloroethane	29	145	ND	ND	ND	ND
1,2-Dichloroethane	22	110	ND	ND	ND	ND
1,1-Dichloroethene	28	140	ND	ND	ND	ND
cis-1,2-Dichloroethene	26	130	ND	ND	ND	ND
trans-1,2-Dichloroethene	32	160	ND	ND	ND	ND
1,2-Dichloropropane	22	110	ND	ND	ND	ND
1,3-Dichloropropane	21	105	ND	ND	ND	ND
2,2-Dichloropropane	38	190	ND	ND	ND	ND
1,1-Dichloropropene	27	135	ND	ND	ND	ND
cis-1,3-Dichloropropene	26	130	ND	ND	ND	ND
trans-1,3-Dichloropropene	29	145	ND	ND	ND	ND
Diisopropyl ether (DIPE)	26	130	ND	ND	ND	ND
Ethylbenzene	30	150	ND	ND	ND	ND
Hexachlorobutadiene	44	220	ND	ND	ND	ND
2-Hexanone	21	105	ND	ND	ND	ND
Isopropylbenzene	33	165	ND	ND	ND	ND
p-Isopropyltoluene	28	140	ND	ND	ND	ND
Methyl-t-butyl ether (MTBE)	23	115	ND	ND	ND	ND
Methylene chloride	31	155	ND	ND	ND	ND
Methyl iodine (Iodomethane)	20	100	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	19	95	ND	ND	ND	ND
Naphthalene	30	150	ND	ND	ND	ND
Propylbenzene	30	150	ND	ND	ND	ND
Styrene (Phenylethylene)	33	165	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	23	115	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	40	200	ND	ND	ND	ND
Tetrachloroethylene (PCE)	27	135	ND	ND	ND	ND
Toluene	25	125	ND	ND	ND	ND
1,2,3-Trichlorobenzene	29	145	ND	ND	ND	ND
1,2,4-Trichlorobenzene	31	155	ND	ND	ND	ND
1,1,1-Trichloroethane	26	130	ND	ND	ND	ND
1,1,2-Trichloroethane	23	115	ND	ND	ND	ND
Trichloroethylene (TCE)	24	120	ND	ND	ND	ND
Trichlorofluoromethane	35	175	ND	ND	ND	ND
1,2,3-Trichloropropane	22	110	ND	ND	ND	ND
1,2,4-Trimethylbenzene	25	125	ND	ND	ND	ND
1,3,5-Trimethylbenzene	28	140	ND	ND	ND	ND
Vinyl acetate	52	260	ND	ND	ND	ND
Vinyl Chloride	36	180	ND	ND	ND	ND
m & p-Xylene	75	375	ND	ND	ND	ND
o-Xylene	28	140	ND	ND	ND	ND

NOTES:
VOC = Volatile Organic Compound
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
ND = Indicated constituents not detected; below method detection limit
µg/kg = micrograms per kilogram

ALTA ENVIRONMENTAL

TABLE 8
Shallow Soil Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs by EPA Method 8260B		Sample ID:	B27-1'	B27-3'	B28-1'	B28-3'
		Date:	6/25/2013	6/29/2013	6/29/2013	6/29/2013
	MDL:	PQL:	VOC Concentration (µg/kg)			
Acetone	32	160	ND	ND	ND	ND
tert-Amyl methyl ether (TAME)	23	115	ND	ND	ND	ND
Benzene	26	130	ND	ND	ND	ND
Bromobenzene	26	130	ND	ND	ND	ND
Bromochloromethane	24	120	ND	ND	ND	ND
Bromodichloromethane	22	110	ND	ND	ND	ND
Bromoform	23	115	ND	ND	ND	ND
Bromomethane	20	100	ND	ND	ND	ND
Methyl ethyl ketone (MEK)	26	130	ND	ND	ND	ND
tert-Butyl alcohol (TBA)	373	1865	ND	ND	ND	ND
Butylbenzene	29	145	ND	ND	ND	ND
sec-Butylbenzene	27	135	ND	ND	ND	ND
tert-Butylbenzene	29	145	ND	ND	ND	ND
tert-Butyl ethyl ether (ETBE)	20	100	ND	ND	ND	ND
Carbon disulfide	116	580	ND	ND	ND	ND
Carbon Tetrachloride	32	160	ND	ND	ND	ND
Chlorobenzene	28	140	ND	ND	ND	ND
Chloroethane	42	210	ND	ND	ND	ND
2-Chloroethyl vinyl ether	23	115	ND	ND	ND	ND
Chloroform	30	150	ND	ND	ND	ND
Chloromethane	70	350	ND	ND	ND	ND
2-Chlorotoluene	27	135	ND	ND	ND	ND
4-ChloroToJuene	28	140	ND	ND	ND	ND
Dibromochloromethane	25	125	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	31	155	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	23	115	ND	ND	ND	ND
Dibromomethane	33	165	ND	ND	ND	ND
1,2-Dichlorobenzene	27	135	ND	ND	ND	ND
1,3-Dichlorobenzene	27	135	ND	ND	ND	ND
1,4-Dichlorobenzene	33	165	ND	ND	ND	ND
Dichlorodifluoromethane	37	185	ND	ND	ND	ND
1,1-Dichloroethane	29	145	ND	ND	ND	ND
1,2-Dichloroethane	22	110	ND	ND	ND	ND
1,1-Dichloroethene	28	140	ND	ND	ND	ND
cis-1,2-Dichloroethene	26	130	ND	ND	ND	ND
trans-1,2-Dichloroethene	32	160	ND	ND	ND	ND
1,2-Dichloropropane	22	110	ND	ND	ND	ND
1,3-Dichloropropane	21	105	ND	ND	ND	ND
2,2-Dichloropropane	38	190	ND	ND	ND	ND
1,1-Dichloropropene	27	135	ND	ND	ND	ND
cis-1,3-Dichloropropene	26	130	ND	ND	ND	ND
trans-1,3-Dichloropropene	29	145	ND	ND	ND	ND
Diisopropyl ether (DIPE)	26	130	ND	ND	ND	ND
Ethylbenzene	30	150	ND	ND	ND	ND
Hexachlorobutadiene	44	220	ND	ND	ND	ND
2-Hexanone	21	105	ND	ND	ND	ND
Isopropylbenzene	33	165	ND	ND	ND	ND
p-Isopropyltoluene	28	140	ND	ND	ND	ND
Methyl-t-butyl ether (MTBE)	23	115	ND	ND	ND	ND
Methylene chloride	31	155	ND	ND	ND	ND
Methyl iodine (Iodomethane)	20	100	ND	ND	ND	ND
4-Methyl-2-pentanone (MIBK)	19	95	ND	ND	ND	ND
Naphthalene	30	150	ND	ND	ND	ND
Propylbenzene	30	150	ND	ND	ND	ND
Styrene (Phenylethylene)	33	165	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	23	115	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	40	200	ND	ND	ND	ND
Tetrachloroethylene (PCE)	27	135	ND	ND	ND	ND
Toluene	25	125	ND	ND	ND	ND
1,2,3-Trichlorobenzene	29	145	ND	ND	ND	ND
1,2,4-Trichlorobenzene	31	155	ND	ND	ND	ND
1,1,1-Trichloroethane	26	130	ND	ND	ND	ND
1,1,2-Trichloroethane	23	115	ND	ND	ND	ND
Trichloroethylene (TCE)	24	120	ND	ND	ND	ND
Trichlorofluoromethane	35	175	ND	ND	ND	ND
1,2,3-Trichloropropane	22	110	ND	ND	ND	ND
1,2,4-Trimethylbenzene	25	125	ND	ND	ND	ND
1,3,5-Trimethylbenzene	28	140	ND	ND	ND	ND
Vinyl acetate	52	260	ND	ND	ND	ND
Vinyl Chloride	36	180	ND	ND	ND	ND
m & p-Xylene	75	375	ND	ND	ND	ND
o-Xylene	28	140	ND	ND	ND	ND

NOTES:
VOC = Volatile Organic Compound
MDL = Method Detection Limit
PQL = Practical Quantitation Limit
ND = Indicated constituents not detected; below method detection limit
µg/kg = micrograms per kilogram

ALTA ENVIRONMENTAL

TABLE 9
Soil Gas Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs by EPA Method 8260B	CHHSLs* (µg/L)		Sample ID:	VP1-5	VP1-15	VP2-5	VP2-15	VP3-5	VP3-15 1P	VP3-15 3P	VP3-15 10P
			Date:	8/4/2013	8/4/2013	8/4/2013	8/4/2013	8/4/2013	8/4/2013	8/4/2013	8/4/2013
	Resident.	Comm./ Indust.	PQL:	VOC Concentrations (µg/L)							
Benzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.083	0.21	0.008	ND	ND	ND	ND	ND	0.033	0.014	0.029
Chlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	NA	NA	0.008	ND	ND	ND	ND	0.316	0.896	0.81	0.872
Chloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2- Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	NA	NA	0.008	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NA	NA	0.008	2.82	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.47	1.6	0.008	ND	ND	ND	ND	0.059	0.057	0.048	0.054
Toluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	1.3	4.4	0.008	ND	ND	ND	ND	2.26	2.83	2.55	2.89
Trichlorofluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tert-butylether (ETBE)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropylether (DIPE)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-amylmethylether (TAME)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylalcohol (TBA)	—	—	0.040	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

VOC = Volatile Organic Compound
PQLs = Practical Quantitation Limits
ND = Not Detected Above the PQL
P = Purge Volume
REP = replicate
µg/L = microgram per liter
NA = information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of VOCs

ALTA ENVIRONMENTAL

TABLE 9
Soil Gas Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs by EPA Method 8260B	CHHSLs* (µg/L)		Sample ID:	VP-8	VP-16	VP-6	VP-15	VP-8	VP-16	VP7-8	VP7-16
			Date:	(NA)	(NA)	(NA)	(NA)	8/5/2013	8/5/2013	8/4/2013	8/4/2013
	Resident.	Comm/ Indust.	PQL:	VOC Concentrations (µg/L)							
Benzene	—	—	0.006					ND	ND	ND	ND
Bromobenzene	—	—	0.006					ND	ND	ND	ND
Bromodichloromethane	—	—	0.008					ND	ND	ND	ND
Bromoform	—	—	0.008					ND	ND	ND	ND
n-Butylbenzene	—	—	0.008					ND	ND	ND	ND
sec-Butylbenzene	—	—	0.008					ND	ND	ND	ND
tert-Butylbenzene	—	—	0.008					ND	ND	ND	ND
Carbon tetrachloride	0.083	0.21	0.008					ND	ND	ND	0.035
Chlorobenzene	—	—	0.008					ND	ND	ND	ND
Chloroethane	—	—	0.008					ND	ND	ND	ND
Chloroform	NA	NA	0.008					ND	0.046	0.022	0.363
Chloromethane	—	—	0.008					ND	ND	ND	ND
2-Chlorotoluene	—	—	0.008					ND	ND	ND	ND
4-Chlorotoluene	—	—	0.008					ND	ND	ND	ND
Dibromochloromethane	—	—	0.008					ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	—	—	0.008					ND	ND	ND	ND
1,2-Dibromoethane (EDB)	—	—	0.008					ND	ND	ND	ND
Dibromomethane	—	—	0.008					ND	ND	ND	ND
1,2- Dichlorobenzene	—	—	0.008					ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.008					ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.008					ND	ND	ND	ND
Dichlorodifluoromethane	—	—	0.008					ND	ND	ND	ND
1,1-Dichloroethane	—	—	0.008					ND	ND	ND	ND
1,2-Dichloroethane	—	—	0.008					ND	ND	ND	ND
1,1-Dichloroethene	NA	NA	0.008					ND	ND	ND	ND
cis-1,2-Dichloroethene	—	—	0.008					ND	ND	ND	ND
trans-1,2-Dichloroethene	—	—	0.008					ND	ND	ND	ND
1,2-Dichloropropane	—	—	0.008					ND	ND	ND	ND
1,3-Dichloropropane	—	—	0.008					ND	ND	ND	ND
2,2-Dichloropropane	—	—	0.008					ND	ND	ND	ND
1,1-Dichloropropene	—	—	0.008					ND	ND	ND	ND
cis-1,3-Dichloropropene	—	—	0.008					ND	ND	ND	ND
trans-1,3-Dichloropropene	—	—	0.008					ND	ND	ND	ND
Ethylbenzene	—	—	0.008					ND	ND	ND	ND
Freon 113	NA	NA	0.008					0.651	0.964	ND	0.057
Hexachlorobutadiene	—	—	0.008					ND	ND	ND	ND
Isopropylbenzene	—	—	0.008					ND	ND	ND	ND
4-Isopropyltoluene	—	—	0.008					ND	ND	ND	ND
Methylene chloride	—	—	0.008					ND	ND	ND	ND
Naphthalene	—	—	0.008					ND	ND	ND	ND
n-Propylbenzene	—	—	0.008					ND	ND	ND	ND
Styrene	—	—	0.008					ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	—	—	0.008					ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	—	—	0.008					ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.47	1.6	0.008					ND	ND	ND	ND
Toluene	—	—	0.008					ND	ND	ND	ND
1,2,3-Trichlorobenzene	—	—	0.008					ND	ND	ND	ND
1,2,4-Trichlorobenzene	—	—	0.008					ND	ND	ND	ND
1,1,1-Trichloroethane	—	—	0.008					ND	ND	ND	ND
1,1,2-Trichloroethane	—	—	0.008					ND	ND	ND	ND
Trichloroethylene (TCE)	1.3	4.4	0.008					ND	ND	ND	ND
Trichlorofluoromethane	—	—	0.008					ND	ND	ND	ND
1,2,3-Trichloropropane	—	—	0.008					ND	ND	ND	ND
1,2,4-Trimethylbenzene	—	—	0.008					ND	ND	ND	ND
1,3,5-Trimethylbenzene	—	—	0.008					ND	ND	ND	ND
Vinyl chloride	—	—	0.008					ND	ND	ND	ND
Xylenes	—	—	0.008					ND	ND	ND	ND
MTBE	—	—	0.008					ND	ND	ND	ND
Ethyl-tert-butylether (ETBE)	—	—	0.008					ND	ND	ND	ND
Diisopropylether (DIPE)	—	—	0.008					ND	ND	ND	ND
tert-amylmethylether (TAME)	—	—	0.008					ND	ND	ND	ND
tert-Butylalcohol (TBA)	—	—	0.040					ND	ND	ND	ND

NO SAMPLE COLLECTED - PROBE LOCATION INACCESSIBLE

NOTES:

VOC = Volatile Organic Compound
PQLs = Practical Quantitation Limits
ND = Not Detected Above the PQL
P = Purge Volume
REP = replicate
µg/L = microgram per liter
NA = information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of VOCs

ALTA ENVIRONMENTAL

TABLE 9
Soil Gas Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs by EPA Method 8260B	CHHSLs* (µg/L)		Sample ID:	VP9-5	VP9-10	VP9-5	VP9-5 REP	VP9-15	VP10-5	VP10-15	VP11-5
			Date:	8/4/2013	8/4/2013	8/4/2013	8/4/2013	8/4/2013	8/4/2013	8/5/2013	8/5/2013
	Resident.	Comm./ Indust.	PQL:	VOC Concentrations (µg/L)							
Benzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.083	0.21	0.008	ND	0.017	ND	ND	ND	ND	ND	ND
Chlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	NA	NA	0.008	0.153	0.454	ND	ND	ND	ND	ND	ND
Chloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2- Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	NA	NA	0.008	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NA	NA	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.47	1.6	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	1.3	4.4	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tert-butylether (ETBE)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropylether (DIPE)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-amylmethylether (TAME)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylalcohol (TBA)	—	—	0.040	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

VOC = Volatile Organic Compound
PQLs = Practical Quantitation Limits
ND = Not Detected Above the PQL
P = Purge Volume
REP = replicate
µg/L = microgram per liter
NA = information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of VOCs

TABLE 9
Soil Gas Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs by EPA Method 8260B	CHHSLs* (µg/L)		Sample ID:	VP11-1E	VP11-2 REP	VP12-5	VP12-15	VP12-5	VP15-15	VP14-5	VP14-15
			Date:	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/5/2013	8/4/2013	8/4/2013
	Resident.	Comm./ Indust.	PQL:	VOC Concentrations (µg/L)							
Benzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Bromoform	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
sec-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride	0.083	0.21	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Chloroform	NA	NA	0.008	ND	ND	0.039	ND	ND	ND	ND	ND
Chloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dibromomethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2- Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene	NA	NA	0.008	ND	ND	ND	ND	ND	0.118	ND	ND
cis-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
2,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Freon 113	NA	NA	0.008	0.068	ND	0.184	0.529	0.203	1.13	ND	ND
Hexachlorobutadiene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Isopropylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
4-Isopropyltoluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Methylene chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Naphthalene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
n-Propylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Styrene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.47	1.6	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Toluene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	1.3	4.4	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
MTBE	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Ethyl-tert-butylether (ETBE)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
Diisopropylether (DIPE)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-amylmethylether (TAME)	—	—	0.008	ND	ND	ND	ND	ND	ND	ND	ND
tert-Butylalcohol (TBA)	—	—	0.040	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

VOC = Volatile Organic Compound
PQLs = Practical Quantitation Limits
ND = Not Detected Above the PQL
P = Purge Volume
REP = replicate
µg/L = micrograms per liter
NA = information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of VOCs

TABLE 9
Soil Gas Sample Results - VOCs
Tyrone Property
7600 Tyrone Avenue, Van Nuys, CA

VOCs by EPA Method 8260B	CHHSLs* (µg/L)		Sample ID:	VP16-8	VP16-16	VP16-8	VP16-8 REP	VP16-16
			Date:	8/4/2013	8/4/2013	8/12/2013	8/12/2013	8/12/2013
	Resident.	Comm./ Indust.	PQL:	VOC Concentrations (µg/L)				
Benzene	—	—	0.008	ND	ND	ND	ND	ND
Bromobenzene	—	—	0.008	ND	ND	ND	ND	ND
Bromodichloromethane	—	—	0.008	ND	ND	ND	ND	ND
Bromoform	—	—	0.008	ND	ND	ND	ND	ND
n-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND
sec-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND
tert-Butylbenzene	—	—	0.008	ND	ND	ND	ND	ND
Carbon tetrachloride	0.063	0.21	0.008	ND	ND	ND	ND	ND
Chlorobenzene	—	—	0.008	ND	ND	ND	ND	ND
Chloroethane	—	—	0.008	ND	ND	ND	ND	ND
Chloroform	NA	NA	0.008	ND	ND	ND	ND	ND
Chloromethane	—	—	0.008	ND	ND	ND	ND	ND
2-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND
4-Chlorotoluene	—	—	0.008	ND	ND	ND	ND	ND
Dibromochloromethane	—	—	0.008	ND	ND	ND	ND	ND
1,2-Dibromo-3-chloropropane	—	—	0.008	ND	ND	ND	ND	ND
1,2-Dibromoethane (EDB)	—	—	0.008	ND	ND	ND	ND	ND
Dibromomethane	—	—	0.008	ND	ND	ND	ND	ND
1,2- Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND
1,3-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND
1,4-Dichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND
Dichlorodifluoromethane	—	—	0.008	ND	ND	ND	ND	ND
1,1-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND
1,2-Dichloroethane	—	—	0.008	ND	ND	ND	ND	ND
1,1-Dichloroethene	NA	NA	0.008	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene	—	—	0.008	ND	ND	ND	ND	ND
1,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND
1,3-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND
2,2-Dichloropropane	—	—	0.008	ND	ND	ND	ND	ND
1,1-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene	—	—	0.008	ND	ND	ND	ND	ND
Ethylbenzene	—	—	0.008	ND	ND	ND	ND	ND
Freon 113	NA	NA	0.008	ND	ND	ND	ND	ND
Hexachlorobutadiene	—	—	0.008	ND	ND	ND	ND	ND
Isopropylbenzene	—	—	0.008	ND	ND	ND	ND	ND
4-Isopropyltoluene	—	—	0.008	ND	ND	ND	ND	ND
Methylene chloride	—	—	0.008	ND	ND	ND	ND	ND
Naphthalene	—	—	0.008	ND	ND	ND	ND	ND
n-Propylbenzene	—	—	0.008	ND	ND	ND	ND	ND
Styrene	—	—	0.008	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane	—	—	0.008	ND	ND	ND	ND	ND
Tetrachloroethylene (PCE)	0.47	1.8	0.008	ND	ND	ND	ND	ND
Toluene	—	—	0.008	ND	ND	ND	ND	ND
1,2,3-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND
1,2,4-Trichlorobenzene	—	—	0.008	ND	ND	ND	ND	ND
1,1,1-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND
1,1,2-Trichloroethane	—	—	0.008	ND	ND	ND	ND	ND
Trichloroethylene (TCE)	1.3	4.4	0.008	ND	ND	ND	ND	ND
Trichlorofluoromethane	—	—	0.008	ND	ND	ND	ND	ND
1,2,3-Trichloropropane	—	—	0.008	ND	ND	ND	ND	ND
1,2,4-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene	—	—	0.008	ND	ND	ND	ND	ND
Vinyl chloride	—	—	0.008	ND	ND	ND	ND	ND
Xylenes	—	—	0.008	ND	ND	ND	ND	ND
MTBE	—	—	0.008	ND	ND	ND	ND	ND
Ethyl-tert-butylether (ETBE)	—	—	0.008	ND	ND	ND	ND	ND
Di-Isopropylether (DIPE)	—	—	0.008	ND	ND	ND	ND	ND
tert-amylmethylether (TAME)	—	—	0.008	ND	ND	ND	ND	ND
tert-Butylalcohol (TBA)	—	—	0.040	ND	ND	ND	ND	ND

NOTES:
VOC = Volatile Organic Compound
PQLs = Practical Quantitation Limits
ND = Not Detected Above the PQL
P = Purge Volume
REP = replicate
µg/L = micrograms per liter
NA = information not available
— = Not applicable
*California Human Health Screening Levels (CHHSLs) for residential and commercial settings are provided for detected concentrations of VOCs

ALTA ENVIRONMENTAL

Figures

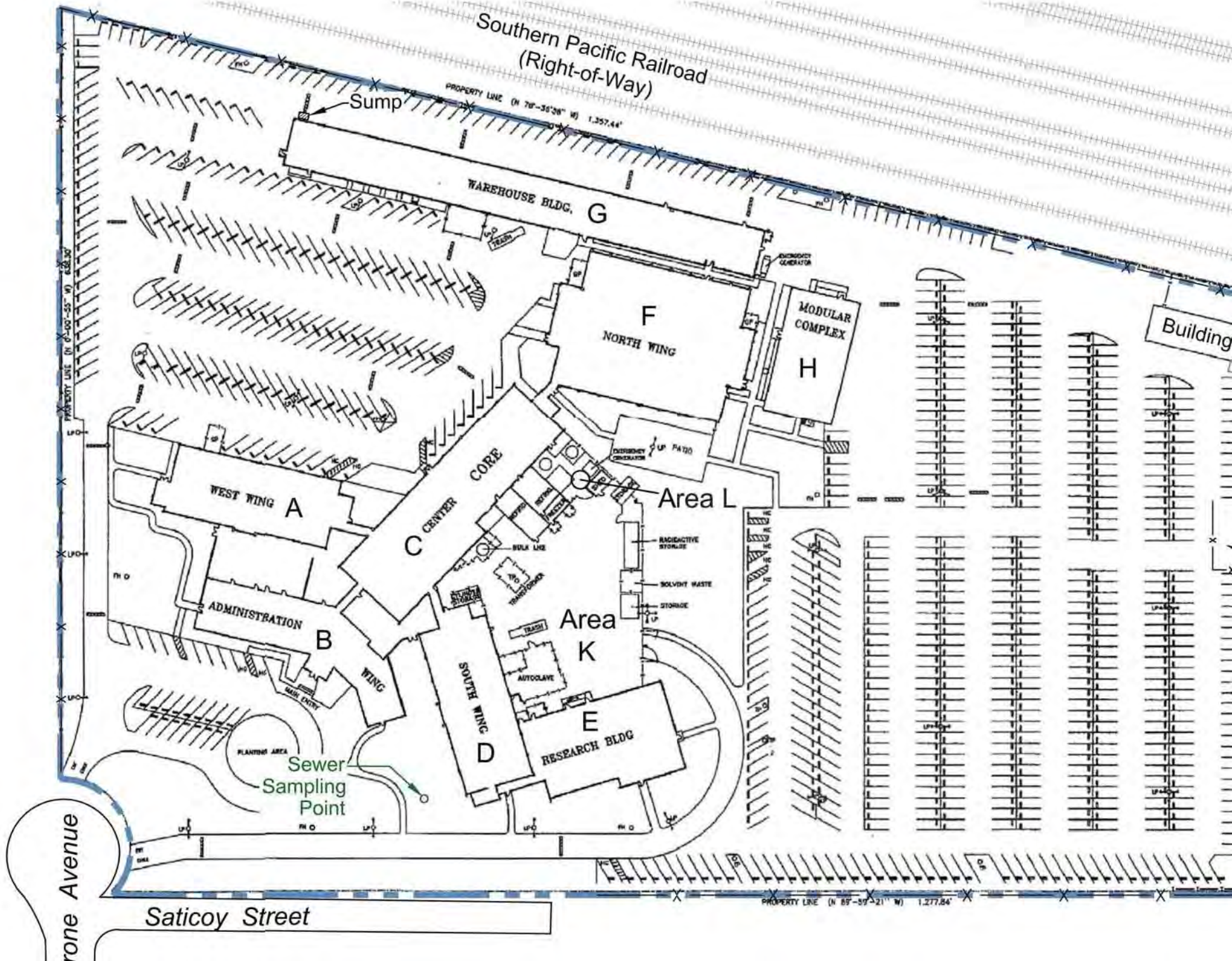
Figures 1 through 3

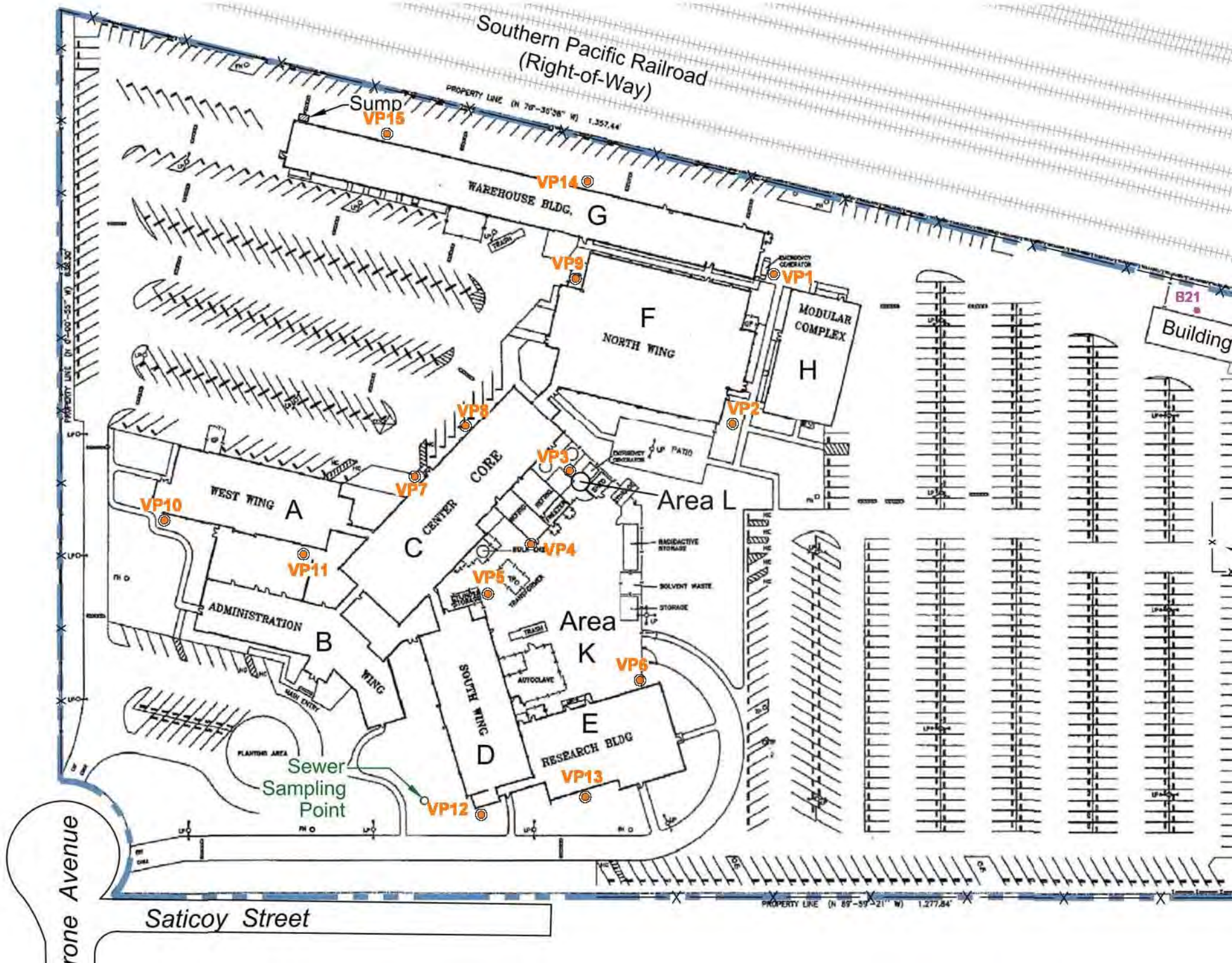
FIGURE 1: Site Location Map

CLIENT: Los Angeles Department of Water and Power	**SITE LOCATION:** 7600 Tyrone Avenue Van Nuys, California
PROJECT #: LDWP-13-1198	

ALTA ENVIRONMENTAL
3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.altaenviron.com

DRAWN: KD	APPROVED: SM	NORTH
SCALE: NONE	DATE: 8/13/13	


Southern Pacific Railroad
(Right-of-Way)
Sump
WAREHOUSE BLDG. G
F
NORTH WING
MODULAR
COMPLEX
H
Building
WEST WING A
C CENTER CORE
Area L
ADMINISTRATION
B
WING
SOUTH WING D
Area
K
AUTOCLAVE
E
RESEARCH BLDG
Sewer
Sampling
Point
Saticoy Street


Southern Pacific Railroad
(Right-of-Way)
Sump
VP15
VP14
WAREHOUSE BLDG. G
VP9
VP1
F
NORTH WING
MODULAR COMPLEX
H
B21
Building
VP8
VP2
VP3
VP7
VP10
WEST WING A
C CENTER CORE
Area L
VP4
VP11
VP5
ADMINISTRATION B WING
Area K
VP6
SOUTH WING D
AUTOCLAVE
E
RESEARCH BLDG
VP13
Sewer
Sampling
Point
VP12
Saticoy Street

Results of Geophysical Investigation

Area of Geophysical Investigation
Quest Diagnostics
7600 Tyrone Avenue
Van Nuys, California

Prepared for: **Alta Environmental Inc.**
Long Beach, California

Date of Investigation: May 17th, 2013

Prepared by: _____

RJ Weed, Senior Project Manager
Spectrum Geophysics
20434 Corisco Street
Chatsworth, CA 91311

Warranty:

Spectrum Geophysics was retained to conduct a geophysical investigation of the above facility to characterize the shallow subsurface. Our findings are subject to certain limitations due to site conditions and the instruments employed. We conducted this investigation in a manner consistent with our profession using similar methods. No other warranty as to the performance or deliverables is expressed or implied.

SPECTRUM GEOPHYSICS
"Revealing The Subsurface"

20434 Corisco Street
Chatsworth, CA 91311

Tel: 818-886-4500
Fax: 818-886-4511

Contents

Attached Figures

Results of Geophysical Investigation
Quest Diagnostics
7600 Tyrone Avenue
Van Nuys, California

Introduction

On May 17th, 2013, Spectrum Geophysics conducted a geophysical investigation on a portion of the Quest Diagnostics facility located in Van Nuys, California.

The purpose of the investigation was to delineate the surface trace of detectable steel underground storage tanks (USTs) within the area of investigation.

The area of investigation, as designated by Kristyn Drake of Alta Environmental, was soil covered and was roughly 1-acre in size.

Site interferences included reinforced concrete, bollards, chain-link fencing, large soil piles with debris, and scattered metallic surface debris.

Methods

The equipment used in this investigation consisted of a Geonics EM-61 high-sensitivity metal detector, a shallow-focus metal detector (M-scope), and electromagnetic (EM) utility-locating equipment. A NavCom SF2050-G GPS unit and a digital field computer were used during EM-61 data acquisition.

EM-61 High Sensitivity Metal Detector

The EM-61 high-sensitivity metal detector was used in an effort to delineate areas where metallic objects (such as underground storage tanks, and metal piping) may be buried. The EM-61 transmitter generates short pulses of electromagnetic energy that travel downward and outward and have a primary field associated with them. This energy becomes "trapped" in conductive materials and causes a secondary magnetic field to be generated in these materials. Between pulses, the receiver measures the voltage of the decay of this secondary magnetic field that is proportional to the conductivity of the subsurface materials.

EM-61 data acquisition
(archive photo)

EM-61 readings were collected along roughly parallel lines spaced approximately 2.5 feet apart within the accessible areas of the investigation and stored concurrently with GPS eastings and northings in a digital field computer. These data were processed in the field and used to generate contour maps to assist in identifying anomalous areas that may be caused by buried metallic features.

Electromagnetic (EM) Utility Location

Passive and active EM utility-locating methods were used in an effort to identify possible sources of EM-61 anomalies and to delineate the surface trace of detectable underground utilities and abandoned piping.

Electromagnetic (EM) utility location
(archive photo)

Passive locating is possible when electrically conductive conduits are energized by ambient radio frequencies (RF) that are often produced by 50/60 cycle electrical, radio, audio, television, and communication transmissions. A receiver tuned to these frequencies can be used to locate the re-radiated signal emitted by the conductor (i.e., conduit).

Active locating is initiated by conducting an EM signal at a known frequency (8 and 33 kHz for this site) on a conduit exposed at the surface. A receiver, tuned to these frequencies, is then used to locate the signal maxima (or surface trace) of the applied signal.

Ground Penetrating Radar

EM-61 anomalies that could not be attributed to aboveground cultural features or detected underground conduits were further investigated using GPR methods. GPR data were collected over suspect areas and interpreted in the field for anomalies whose signatures might indicate the presence of features of interest.

Data collection using the Noggin GPR
(archive photo)

A high frequency radio signal is transmitted into the ground via the antenna. As radio waves propagate into the ground, these

signals are reflected off structures with differing electrical properties. These reflected signals are then captured by the receiver and are presented as vertical profiles on the GPR unit.

The areal extents and/or surface traces of detected features were marked on the ground with spray paint.

Results

A map of the area of investigation is presented in Figure 1. A contour map of the EM-61 top coil data is presented in Figure 2.

EM-61

Fifteen distinct anomalies were observed on the EM-61 Top Coil Data contour map (Figure 2).

Anomaly A was located along Eastings 6428188 to 6428418 and between Northings 1899131 and 1829043. A gas line and a conduit were detected using EM utility-locating methods. Surface interference consisted of three steel drums, two concrete pads, a storm drain vault lid, a fence, and surface metallic debris that were observed in the area, however, they could not be determined as the sole sources of the anomaly. A storm channel was also noted in the area, however, because of depth limitations it could not be detected. GPR provided no further information as to a source.

Anomaly B was located along Eastings 6428311 to 6428325 and between Northings 1899066 and 1899052. EM-utility locating methods and GPR provided no further information as to a source.

Anomaly C was located along Eastings 6428280 to 6428289 and between Northings 1898990 and 1898981. EM-utility locating methods and GPR provided no further information as to a source.

Anomaly D was located along Eastings 6428276 to 6428289 and between Northings 1898962 and 1898949. EM-utility locating methods and GPR provided no further information as to a source.

Anomaly E was located along Eastings 6428474 to 6428321 and between Northings 1898941 and 1898912. EM-utility locating methods and GPR provided no further information as to a source.

Anomaly F was located along Eastings 6428373 to 6428390 and between Northings 1898944 and 1898916. A small buried metallic feature was detected using hand-held metal detection, however, it could not be verified as the sole source of the anomaly. EM-utility locating methods and GPR provided no further information as to a source.

Anomaly G was located along Eastings 6428478 to 6428556 and between Northings 1899037 and 1899003. EM-utility locating methods and GPR provided no further information as to a source. The source(s) of this anomaly appear to be located in or beneath the soil/debris pile.

Anomaly H was located along Eastings 6428473 to 6428492 and between Northings 1898974 and 1898960. EM-utility locating methods and GPR provided no further information as to a source.

Anomaly I was located along Eastings 6428455 to 6428396 and between Northings 1898930 and 1898915. EM-utility locating methods and GPR provided no further information as to a source.

Anomaly J was located along Eastings 6428509 to 6428520 and between Northings 1898981 and 1898969. A small buried metallic feature was detected using hand held metal detection, however, it could not be verified as the sole source of the anomaly. EM-utility locating methods and GPR provided no further information as to a source although two conduits or possible footings may project to the south and one to the east as indicated by the linear trending (LT) anomalies.

Anomaly K was located along Eastings 6428529 to 6428549 and between Northings 1898971 and 1898956. EM-utility locating methods and GPR provided no further information as to a source.

Anomaly L was located along Eastings 6428556 to 6428590 and between Northings 1899026 and 1829006. A storm channel was noted in the area, however, because of depth limitations it could not be detected. EM-utility locating methods and GPR provided no further information as to a source.

Anomaly M was located along Eastings 6428591 to 6428605 and between Northings 1898942 and 1898959. EM-utility locating methods and GPR provided no further information as to a source.

Anomaly N was located along Eastings 6428569 to 6428588 and between Northings 1898951 and 1898940. EM-utility locating methods and GPR provided no further information as to a source.

Anomaly O was located along Eastings 6428590 to 6428610 and between Northings 1898938 and 1898907. EM-utility locating methods and GPR provided no further information as to a source.

Several linear trending anomalies (see lines labled LT on Figure 1) were observed on the EM-61 contour maps. EM utility-locating methods did not identify conduits as a source, however, that does not preclude their presence. Typically LT anomalies are indicative

of conduits or a linear metal bearing feature such as building footings, however, numerous sources could cause a similar anomaly and some of these anomaly trends are more complex as multiple sources are likely present.

The north-south trending anomalous area located on the easternmost portion of the site was caused by a conduit and the fence.

Recommendations

We recommend a safe excavation of all cited anomalous areas and linear trend anomalies (LT) to determine their respective source(s).

We also recommend removal of all soil piles and debris as well as the reinforced concrete slabs in order to resurvey using metal detection methods in an effort to identify detectable buried metallic features in these areas. No distinctive anomalies could be determined on the northwest section of the area (with exception of *Anomaly B*) due to the presence of the numerous reinforced concrete slabs and other metallic or metal bearing features on the surface.

Limitations

EM-61

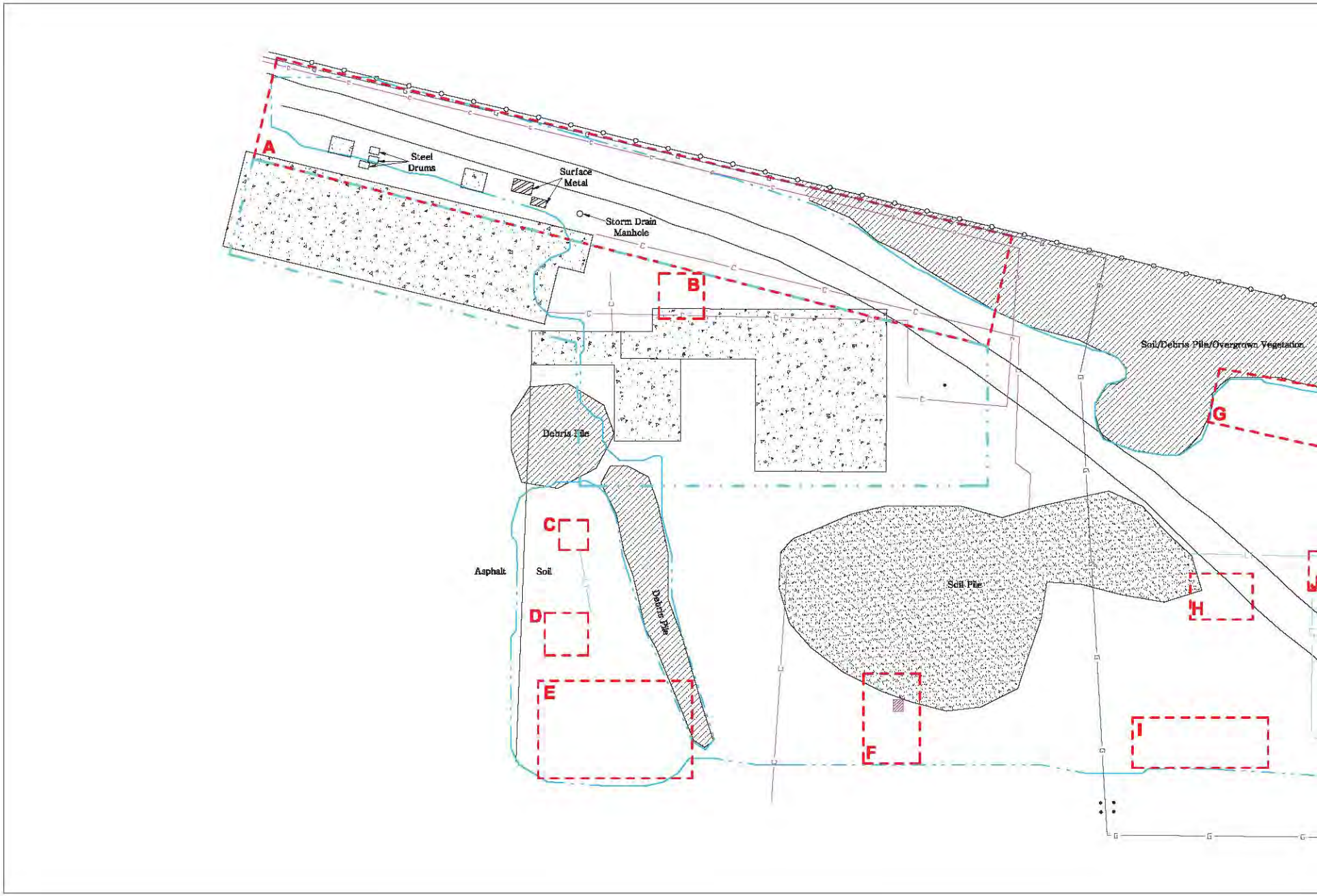
The EM-61 is capable of detecting a 55-gallon drum up to a depth of 3 meters under favorable conditions. We recommend a minimum 10-foot buffer between the survey area and any metallic or metal bearing surface cultural features such as cars, metal signs, or aboveground piping which could severely compromise the quality of the data. Reliable EM-61 data cannot be collected over areas covered with reinforced concrete.

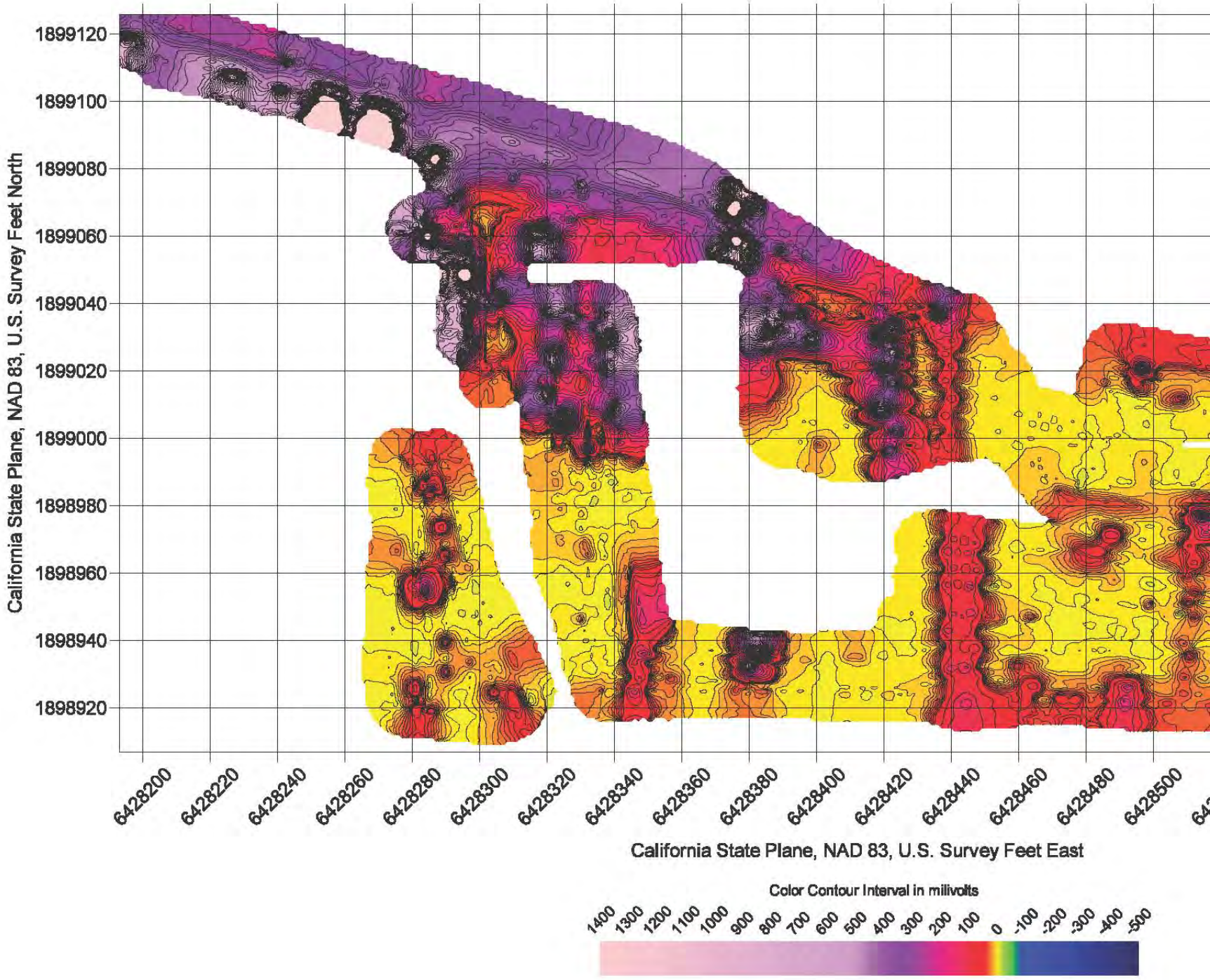
General

It should be understood that the location of subsurface objects and utilities is dependent upon the recognition of physical phenomena at the ground surface. These phenomena can be magnetic fields or electro-magnetic waves that give rise to a surface expression which in turn is interpreted as representative of subsurface objects. These waves, however, may be attenuated and/or distorted by a number of factors including soil moisture, corrosion, and proximity to other surface and subsurface facilities.

Spectrum cannot provide interpretation for the presence or absence of USTs or other buried metallic features in areas where vehicles/dumpsters/surface metallic features or soil piles are

present. We recommend the surface area be cleared of potential interferences and resurveyed.


A
Steel Drums
Surface Metal
Storm Drain Manhole
B
Soil/Debris Pile/Overgrown Vegetation
G
Debris Pile
C
Asphalt
Soil
Debris Pile
Soil Pile
H
D
E
F
I
Area of Geophysical Investigation
EM-61 Anomaly
Area requiring further investigation
Reinforced Concrete


1899120
1899100
1899080
1899060
1899040
1899020
1899000
1898980
1898960
1898940
1898920
California State Plane, NAD 83, U.S. Survey Feet North
6428200
6428220
6428240
6428260
6428280
6428300
6428320
6428340
6428360
6428380
6428400
6428420
6428440
6428460
6428480
6428500
California State Plane, NAD 83, U.S. Survey Feet East
Color Contour Interval in milivolts
1400
1300
1200
1100
1000
900
800
700
600
500
400
300
200
100
0
-100
-200
-300
-400
-500

DEPARTMENT OF WATER & POWER
OF THE CITY OF LOS ANGELES
Power System
Integrated Support Services

ENVIRONMENTAL LABORATORY DATA REPORT

CLIENT: GEORGE FEAUSTLE

PROJECT: 7600 TYRONE AVE

REPORT NO.: C12054

TABLE OF CONTENTS

DEPARTMENT OF WATER & POWER
OF THE CITY OF LOS ANGELES
Power System
Integrated Support Services

ENVIRONMENTAL LABORATORY DATA REPORT

7600 TYRONE AVE, VAN NUYS
Soil Samples

Soil samples from 7600 Tyrone Ave, Van Nuys, were submitted to the Environmental Laboratory on May 28, 2013 for the determination of their Volatile Organic Compounds (VOC), Metals, Semi-Volatile Organic Compounds (SVOC), Total Extractable Petroleum Hydrocarbons (TEPH) including Motor Oil (MO) and Diesel Range Organic (DRO), Chlorinated Pesticides, Polychlorinated Biphenyls (PCBs), and Gasoline Range Organics (GRO) content.

Testing information including tests requested and test methods are listed below. All quality assurance data indicate that the results for these samples are of acceptable quality.

Analysis Requested	Method	Results	Analyzed by
VOC	EPA 8260 B	**Attachment #1**	Environmental Lab
Metals	EPA 6010B/7471	**Attachment #2**	Environmental Lab
TEPH/Diesel/Motor Oil	EPA 8015M	**Attachment #3**	Environmental Lab
GRO	EPA 8015B	**Attachment #4**	Environmental Lab
PCB	EPA 8082	**Attachment #5**	Weck Laboratories
Pesticides	EPA 8081	**Attachment #6 PENDING**	Weck Laboratories
SVOC	EPA 8270 C	**Attachment #7**	Weck Laboratories

An updated version of this report will be delivered upon completion of pesticide data.

If you have any questions, or if further information is required, please contact Mr. Jeremy Stoa at (213) 367-7266 or Mr. Kevin Han at (213) 367-7267.

Date Completed: 6/6/2013
Work Order No.: AHJ17
Job Card No.: J95550
Copies to: G. Feaustle
N. Liu
K. Han
J. Stoa
FileNet

Test Performed by: Environmental Lab
Weck Laboratories
Report By: JS Date: 6/06/13
Checked by: Date: 6/7/13

APPROVED BY: Kevin Han 6/7/13
Kevin Han Date
Interim Laboratory Manager
Environmental Laboratory

Environme l Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
(213) 367-7248/7399
(213) 367-7285 FAX

Department of Water and Po r
City of Los Angeles
Chain of Custody Record

COC #: 13-1321 Page 1 of 4

Report C#______ JC# J95550 WO# AH377
Refrig#. R154 Shelf______ Bin#.______
Initial of Field Personnel: No. of Field Test:

Sample Location: Tyrone property, 7600 Tyrone Ave, Van Nuys CA

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1 B21-1' LN06205	5/28/13	0800		585/ICE	5	ENCORE SLEEVE		SOIL	Title 22 Metals (6010B) / TPH cc (8015M) / SVOCs (8270C)		
2 B21-2' 06206	↓	0802	ARCHIVE	↓	↓	↓	↓	↓	(ARCHIVE)		
3 B21-3' 06207	↓	0804		↓	↓	↓	↓	↓	↓		
4 B19-1' 06208	↓	0810		↓	3	SLEEVE		↓	OCPs (8081A) + As (6010B)		
5 -2' 06209	↓	0812	ARCHIVE	↓	3	↓	↓	↓	(ARCHIVE)		
6 -3' 06210	↓	0814		↓	3	↓	↓	↓	↓		
7 B1-1' 06211	↓	0825		↓	↓	↓	↓	↓	Lead (6010B)		
8 -2' 06212	↓	0827	ARCHIVE	↓	↓	↓	↓	↓	(ARCHIVE)		
9 -3' 06213	↓	0830	RUSH	↓	↓	↓	↓	↓	↓		
10 B22-1' 06214	↓	0850		↓	5	ENCORE SLEEVE		SOIL	T-22 Metals / TPHcc / SVOCs		
11 -2' 06215	↓	0852	ARCHIVE	↓	↓	↓	↓	↓	(ARCHIVE)		
12 -3' 06216	↓	0854		↓	↓	↓	↓	↓	↓		
13 B25-1' 06217	↓	0900		↓	7	ENCORE SLEEVE		↓	T-22 Metals / TPHcc / SVOCs / VOCs (8260B) / PCBs (8082)		
14 -2' 06218	↓	0902	ARCHIVE	↓	↓	↓	↓	↓	(ARCHIVE)		
15 -3' 06219	↓	0904		↓	↓	↓	↓	↓	↓		
16 B4-1' 06220	↓	0910		↓	1	SLEEVE		↓	Pb (6010B)		

Date & Time Stamp

Requester George Faustle (K. Drake) Organization/Div. LADWP / ALTA ENVIRON.
Address ______ Tel. ______ Fax ______

Analyst: ______ Date ______
Approved: ______ Date ______

COC13-1321
LADWP
2013 MAY 28 PM 1:35
RECD BY: ENV. CHEM LAB

Chem Lab COC Form
Revision 08/01/02

Priority
- 2-4 Hrs
- 1Day
- 2 Wks
- 4Wks
- Specify 1 week

BR YC TY BT TS

Printed Name	Signature	Time	Date
Sampled by: KRISTYN DRAKE (ALTA ENVIRONMENTAL)	Sampled by: [signature]	1300	5/28/13
Relinquished by: K. DRAKE	Relinquished by: [signature]	1330	5/28/13
Received by T NGUYEN	Received by [signature]	1335	5/28/13

LK RG KH DW

Environmental Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
(213) 367-7248/7399
(213) 367-7285 FAX

Department of Water and Power
City of Los Angeles
Chain of Custody Record

COC #: 13-1321 Page 2 of 4

Report C#_____ JC#_____ WO#_____
Refrig#._____ Shelf_____ Bin#._____
Initial of Field Personnel: No. of Field Test:

Sample Location: Tyrone Property

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1 B4-2' LN06221	5/28/13	0912	ARCHIVE	5oz/ICE	3	SLEEVE		SOIL	Lead (6010B) (ARCHIVE)		
2 ↓-3' 06222		0914			↓	↓	↓		↓		
3 B3-1' 06223		0920									
4 ↓-2' 06224		0922	ARCHIVE		3	SLEEVE			Pb-Lead (6010B) (ARCHIVE)		
5 ↓-3' 06225		0924			↓	↓	↓		↓		
6 B2-1' 06226		0930									
7 ↓-2' 06227		0932	ARCHIVE						(ARCHIVE)		
8 ↓-3' 06228		0934									
9 B26-1' 06229		0940			7	ENCORE SLEEVE			TTLC Metals/TPHd/VOCs/SVOCs/PCBs (ARCHIVE)		
10 ↓-2' 06230		0942	ARCHIVE		↓	↓			↓		
11 ↓-3' 06231		0944									
12 B18-1' 06232		0950			3	SLEEVE			OCPs (8081A) + As (6010B) (ARCHIVE)		
13 ↓-2' 06233		0952	ARCHIVE		↓	↓	↓		↓		
14 ↓-3' 06234		0954									
15 B6-1' 06235		1000			3	SLEEVE			Pb (6010B) (ARCHIVE)		
16 ↓-2' 06236	↓	1002	ARCHIVE	↓	↓	↓	↓	↓	↓		

Date & Time Stamp
LADWP
2013 MAY 28 PM 1:35
Chem Lab COC Form #1
Revision: 08/01/02

RECD BY: ENV. CHEM. LAB

>> COC# Label Here <<

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

Requester George Fesus-Pe / K. Drake Organization/Div. LADWP / Alta Environ.
Address _____ Tel. _____ Fax _____

Analyst:_____ Date_____
Approved:_____ Date_____

Printed Name	Signature	Time	Date
Sampled by: K. Drake	Sampled by:	1300	5/28/13
Relinquished by: K. Drake	Relinquished by:	1330	
Received by T NGWYEN	Received by	1335	5/28/13

Environm(l Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
(213) 367-7248/7399
(213) 367-7285 FAX

Department of Water and Po er
City of Los Angeles
Chain of Custody Record

COC #: 13-1321 Page 3 of 4

Report C#_____ JC#_____ WO#_____
Refrig#._____ Shelf _____ Bin#._____
Initial of Field Personnel: No. of Field Test:

Sample Location: Tyrone Property

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1 B6-3' LN06237	5/28/13	1004		~~ICE~~	3	SLEEVE		SOIL	Pb (6010B)		
2 B8-1' 06238		1010		ICE	3	SLEEVE			Pb (6010B)		
3 -2' 06239		1012	ARCHIVE						(ARCHIVE)		
4 -3 06240		1014									
5 B29-1' 06241		1020			3				TPH diesel+oil / SVOCs		
6 -2' 06242		1022	ARCHIVE						(ARCHIVE)		
7 -3' 06243		1024							Pb (6010B)		
8 B5-1' 06244		1030			3				~~(ARCHIVE)~~ (KD)		
9 -2' 06245		1032	ARCHIVE						(ARCHIVE)		
10 -3' 06246		1034									
11 B7-1' 06247		1040							Pb (6010B)		
12 -2' 06248		1042	ARCHIVE						(ARCHIVE)		
13 -3' 06249		1044									
14 B20-1' 06250		1050							CAM's (8081A) + As (6010B)		
15 -2' 06251		1052	ARCHIVE						(ARCHIVE)		
16 -3' 06252		1054									

Date & Time - Stamp
LADWP
2013 MAY 28 PM 1:35
RECD BY: ENV. CHEM LAB
Chem Lab COC Form #1
Revision: 08/01/02

>> COC# Label Here <<

Requester George Feasel (K. Drake) Organization/Div. LDWP / Alta Environ
Address _____ Tel. _____ Fax _____

Analyst: _____ Date _____
Approved: _____ Date _____

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

	Printed Name	Signature	Time	Date
Sampled by:	K. Drake		1300	5/28/13
Relinquished by:	K. Drake		1330	5/28/13
Received by	T NGUYEN		1335	5/28/13

Environme l Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
(213) 367-7248/7399
(213) 367-7285 FAX

Department of Water and Po... er
City of Los Angeles
Chain of Custody Record

COC #: 13-1321   Page 4 of 4

Report C# ______ JC# ______ WO# ______
Refrig#. R154 Shelf ______ Bin#. ______
Initial of Field Personnel: ______ No. of Field Test: ______

Sample Location: Tyrone Property

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1 B9-1' LN06253	5/28/13	1100		ICE	3	SLEEVE		SOIL	Pb (6010B)		
2 -2' 06254	↓	1102	ARCHIVE	↓	↓	↓	↓	↓	(ARCHIVE)		
3 -3' 06255		1104							~~(ARCHIVE)~~ KD		
4 B10-1 06256		1110									
5 -2' 06257		1112	ARCHIVE						ARCHIVE		
6 -3 06258		1114							↓		
7 B30-1' 06259		1130							TPH diesel/oil + SVOCs		
8 -2' 06260		1132	ARCHIVE						(ARCHIVE)		
9 -3' 06261		1134							↓		
10 B11-1' 06262		1210							Pb(6010B)		
11 -2' 06263		1212	ARCHIVE						(ARCHIVE)		
12 -3 06264	↓	1214		↓	↓	↓	↓	↓	↓		
13 ~~B12-1 LN -2 -3~~ t 5/29/13											
14											
15 ~~B17-1 -2 -3~~											
16											

Date & Time Stamp

Requester George Feaustle / K. Drake   Organization/Div. LADWP / ALTA Environ.
Address ______ Tel. ______ Fax ______

Analyst: ______ Date ______
Approved: ______ Date ______

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify

Printed Name	Signature	Time	Date
Sampled by: K. Drake	Sampled by: [signature]	1300	5/28/13
Relinquished by: K. Drake	Relinquished by: [signature]	1330	5/28/13
Received by T NGUYEN	Received by t	1335	5/28/13

>> COC Label Here <<

LADWP 2013 MAY PM 1:35 RECD BY: ENV. CHEM LAB

Chem Lab COC Form
Revision 08/01/02

000015

ATTACHMENT #1

VOLATILE ORGANIC COMPOUNDS
(VOC)

EPA METHOD 8260 B

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06217	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-1
LN06219	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-3
LN06229	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-1
LN06231	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-3
LN06335	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-1
LN06337	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-3
LN06341	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-1

Compounds	MDL ug/kg	PQL ug/kg	LN06217 Amount ug/kg	LN06219 Amount ug/kg	LN06229 Amount ug/kg	LN06231 Amount ug/kg	LN06335 Amount ug/kg	LN06337 Amount ug/kg	LN06341 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

COC 13-1321
COC 13-1326

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06217	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-1
LN06219	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-3
LN06229	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-1
LN06231	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-3
LN06335	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-1
LN06337	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-3
LN06341	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-1

Compounds	MDL ug/kg	PQL ug/kg	LN06217 Amount ug/kg	LN06219 Amount ug/kg	LN06229 Amount ug/kg	LN06231 Amount ug/kg	LN06335 Amount ug/kg	LN06337 Amount ug/kg	LN06341 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	104.0%	103.7%	102.7%	103.3%	102.3%	103.3%	102.7%
SURR: Dibromofluoromethane	80 - 120	97.0%	96.0%	95.0%	96.3%	95.3%	95.3%	95.3%
SURR: Toluene-d8	81 - 117	93.7%	92.3%	90.0%	92.3%	92.3%	92.3%	92.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

COC 13-1321
COC 13-1326

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06343	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-3

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN06343 Amount (ug/kg)
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
2-Butanone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
n-Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane (EDB)	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd
Hexachlorobutadiene	44	220.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06343	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-3

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN06343 Amount (ug/kg)
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Methyl iodide (iodomethane)	20	100.0	nd
4-Methyl-2-pentanone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene (Phenylethylene)	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene (PCE)	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene (TCE)	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates (30 ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	103.7%
SURR: Dibromofluoromethane	80 - 120	95.0%
SURR: Toluene-d8	81 - 117	92.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/28/2013	5/28/2013	6/3/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/28/2013	5/28/2013	6/3/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	102.0%
SURR: Dibromofluoromethane	80 - 120	96.7%
SURR: Toluene-d8	81 - 117	92.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

200006

Project No: 7600 TYRONE

(RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 6/3/13 ANALYTICAL METHOD: USEPA 8260

BATCH #: LN06217 LN LN06217 LN06219 LN06229 LN06231 LN06335 LN06337 LN06341 LN06343

LAB SAMPLE I.D.: LN06217 UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	25.3	84.3	30.0	25.9	86.3	2.3 %	59-172	22%
Benzene	ND	30.0	29.9	99.7	30.0	30.5	102	2.3 %	66-142	21%
Trichloroethylene	ND	30.0	30.8	103	30.0	31.3	104	0.97 %	62-137	24%
Toluene	ND	30.0	30.6	102	30.0	31.5	105	2.9 %	59-139	21%
Chlorobenzene	ND	30.0	35.7	119	30.0	36.6	122	2.5 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 6/3/13 ANALYTICAL METHOD: USEPA 8260

SUPPLY SOURCE: LAB LCS I.D.: Q8087

LOT NUMBER: UNIT: ug/kg

DATE OF SOURCE:

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	29.9	30	99.7	70 - 130
1,2-Dichloroethane	32.1	30	107.0	70 - 130
1,4-Dichlorobenzene	31.3	30	104.3	70 - 130
Benzene	28.9	30	96.3	70 - 130
Bromoform	33	30	110.0	70 - 130
Carbon Tetrachloride	27	30	90.0	70 - 130
Tetrachloroethylene	28.2	30	94.0	70 - 130
Trichloroethylene	27.2	30	90.7	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen

200007

ATTACHMENT #2

METALS/MERCURY

EPA METHOD 6010B/7471

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06205	5/28/13	5/28/13	5/31/13	7600 TYRONE, B21-1
LN06207	5/28/13	5/28/13	6/3/13	7600 TYRONE, B21-3
LN06214	5/28/13	5/28/13	6/3/13	7600 TYRONE, B22-1
LN06216	5/28/13	5/28/13	6/3/13	7600 TYRONE, B22-3
LN06217	5/28/13	5/28/13	6/4/13	7600 TYRONE, B25-1
LN06219	5/28/13	5/28/13	6/4/13	7600 TYRONE, B25-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06205 mg/kg	LN06207 mg/kg	LN06214 mg/kg	LN06216 mg/kg	LN06217 mg/kg	LN06219 mg/kg
Antimony	500	15	6010	1.0	5.0	100	4.6J	3.7J	2.9J	3.6J	3.3J	4.2J
Arsenic	500	5	6010	2.6	13.0	100	ND	ND	ND	ND	ND	ND
Barium	10000	100	6010	3.7	18.5	100	263	254	170	201	194	281
Beryllium	75	0.75	6010	0.7	3.5	100	ND	ND	ND	ND	ND	ND
Cadmium	100	1	6010	0.6	3.0	100	3.4	3.0J	2.6J	2.4J	2.42J	3.0J
Chromium (T)	500	5	6010	1.4	7.0	100	22	22.5	20	18	16.4	23
Cobalt	8000	80	6010	1.0	5.0	100	17	16	10	14	13.5	16
Copper	2500	25	6010	1.6	8.0	100	22	18	15	15	13.5	19
Lead	1000	5	6010	0.9	4.5	100	18	14	48	11	10.5	13
Molybdenum	3500	350	6010	0.3	1.5	100	ND	ND	ND	ND	ND	ND
Nickel	2000	20	6010	0.6	3.0	100	22	24	16	18	16.6	24
Selenium	100	1	6010	1.6	8.0	100	ND	ND	ND	ND	ND	ND
Silver	500	5	6010	1.5	7.5	100	ND	ND	7.5J	ND	ND	ND
Thallium	700	7	6010	1.5	7.5	100	ND	ND	ND	ND	ND	ND
Vanadium	2400	24	6010	1.8	9.00	100	42	34	26	28	28	37
Zinc	5000	250	6010	1.9	9.50	100	77	61	191	48	48	60
Mercury	20	0.2	7471	0.0200	0.100	100	0.024	0.015	0.042	0.013	0.009	0.013

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst : YC

COC 13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06229	5/28/13	5/28/13	6/5/13	7600 TYRONE, B26-1
LN06231	5/28/13	5/28/13	6/5/13	7600 TYRONE, B26-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06229 mg/kg	LN06231 mg/kg
Antimony	500	15	6010	1.0	5.0	100	1.3J	3.1J
Arsenic	500	5	6010	2.6	13.0	100	ND	ND
Barium	10000	100	6010	3.7	18.5	100	61	195
Beryllium	75	0.75	6010	0.7	3.5	100	ND	ND
Cadmium	100	1	6010	0.6	3.0	100	1.1J	2.9J
Chromium (T)	500	5	6010	1.4	7.0	100	7.8	18
Cobalt	8000	80	6010	1.0	5.0	100	5.5	15
Copper	2500	25	6010	1.6	8.0	100	11.6	13
Lead	1000	5	6010	0.9	4.5	100	6.0	11
Molybdenum	3500	350	6010	0.3	1.5	100	ND	ND
Nickel	2000	20	6010	0.6	3.0	100	9.3	20
Selenium	100	1	6010	1.6	8.0	100	ND	ND
Silver	500	5	6010	1.5	7.5	100	ND	ND
Thallium	700	7	6010	1.5	7.5	100	ND	ND
Vanadium	2400	24	6010	1.8	9.00	100	18	31
Zinc	5000	250	6010	1.9	9.50	100	26	56
Mercury	20	0.2	7471	0.0200	0.100	100	0.021	0.012

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst : YC

300002

ENVIRONMENTAL LABORATORY DATA REPORT

13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED			SAMPLE DESCRIPTION						
LN06208	5/28/13	5/28/13	5/30/13			7600 TYRONE, B19-1						
LN06210	5/28/13	5/28/13	5/30/13			7600 TYRONE, B19-3						
LN06232	5/28/13	5/28/13	6/4/13			7600 TYRONE, B18-1						
LN06234	5/28/13	5/28/13	6/4/13			7600 TYRONE, B18-3						
LN06250	5/28/13	5/28/13	6/4/13			7600 TYRONE, B20-1						
LN06252	5/28/13	5/28/13	6/4/13			7600 TYRONE, B20-3						
	LIMIT	LIMIT										
	TTLC	STLC					LN06208	LN06210	LN06232	LN06234	LN06250	LN06252
METAL	(mg/kg)	(mg/l)	METHOD	MDL	RL	D. F.	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Arsenic	500	5	6010	2.6	13.0	100	ND	ND	ND	ND	ND	ND

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst : YC

ENVIRONMENTAL LABORATORY DATA REPORT

13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

Method : 6010

Matrix: Soil

Project: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06211	5/28/13	5/28/13	5/30/13	7600 TYRONE B1-1
LN06213	5/28/13	5/28/13	5/30/13	7600 TYRONE B1-3
LN06220	5/28/13	5/28/13	5/30/13	7600 TYRONE B4-1
LN06222	5/28/13	5/28/13	5/30/13	7600 TYRONE B4-3
LN06223	5/28/13	5/28/13	5/30/13	7600 TYRONE B3-1
LN06225	5/28/13	5/28/13	5/30/13	7600 TYRONE B3-3

	LIMIT	LIMIT										
	TTLC	STLC					LN06211	LN06213	LN06220	LN06222	LN06223	LN06225
METAL	(mg/kg)	(mg/l)	METHOD	MDL	RL	D. F.	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Lead	1000	5	6010	0.9	4.5	100	9.8	12.0	11.0	12.0	12.0	12.0

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06226	5/28/13	5/28/13	5/30/13	7600 TYRONE B2-1
LN06228	5/28/13	5/28/13	5/30/13	7600 TYRONE B2-3
LN06235	5/28/13	5/28/13	5/30/13	7600 TYRONE B6-1
LN06237	5/28/13	5/28/13	6/3/13	7600 TYRONE B6-3
LN06238	5/28/13	5/28/13	6/3/13	7600 TYRONE B8-1
LN06240	5/28/13	5/28/13	6/3/13	7600 TYRONE B8-3

	LIMIT	LIMIT										
	TTLC	STLC					LN06226	LN06228	LN06235	LN06237	LN06238	LN06240
METAL	(mg/kg)	(mg/l)	METHOD	MDL	RL	D. F.	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Lead	1000	5	6010	0.9	4.5	100	11.0	15.0	5.7	10.0	24.0	72.0

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: YC

ENVIRONMENTAL LABORATORY DATA REPORT

13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

Method : 6010

Matrix: Soil

Project: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06244	5/28/13	5/28/13	6/4/13	7600 TYRONE B5-1
LN06246	5/28/13	5/28/13	6/4/13	7600 TYRONE B5-3
LN06247	5/28/13	5/28/13	6/4/13	7600 TYRONE B7-1
LN06249	5/28/13	5/28/13	6/4/13	7600 TYRONE B7-3
LN06253	5/28/13	5/28/13	6/4/13	7600 TYRONE B9-1
LN06255	5/28/13	5/28/13	6/4/13	7600 TYRONE B9-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06244 mg/Kg	LN06246 mg/Kg	LN06247 mg/Kg	LN06249 mg/Kg	LN06253 mg/Kg	LN06255 mg/Kg
Lead	1000	5	6010	0.9	4.5	100	52.0	11.0	50.0	15.0	22.0	14.0

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06256	5/28/13	5/28/13	5/30/13	7600 TYRONE B10-1
LN06258	5/28/13	5/28/13	5/30/13	7600 TYRONE B10-3
LN06262	5/28/13	5/28/13	5/30/13	7600 TYRONE B11-1
LN06264	5/28/13	5/28/13	6/3/13	7600 TYRONE B11-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06256 mg/Kg	LN06258 mg/Kg	LN06262 mg/Kg	LN06264 mg/Kg
Lead	1000	5	6010	0.9	4.5	100	15.0	15.0	13.0	17.0

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: YC

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06205 Dup	05/28/13	5/28/13	5/31/13	7600 TYRONE, B21-1
LN06217 Dup	5/28/13	5/28/13	6/4/13	7600 TYRONE, B25-1

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06205 (mg/kg)	LN06217 (mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Antimony	500	15	6010	1.0	5.0	1	4.5J	3.6J				
Arsenic	500	5	6010	2.6	13.0	1	ND	ND				
Barium	10000	100	6010	3.7	18.5	1	228	213				
Beryllium	75	0.75	6010	0.7	3.5	1	ND	ND				
Cadmium	100	1	6010	0.6	3.0	1	3.0J	2.4J				
Chromium (T)	2500	5	6010	1.4	7.0	1	20	17				
Cobalt	8000	80	6010	1.0	5.0	1	16	14				
Copper	2500	25	6010	1.6	8.0	1	20	15				
Lead	1000	5	6010	0.9	4.5	1	20	11.1				
Molybdenum	3500	350	6010	0.3	1.5	1	ND	ND				
Nickel	2000	20	6010	0.6	3.0	1	21	17.5				
Selenium	100	1	6010	1.6	8.0	1	ND	ND				
Silver	500	5	6010	1.5	7.5	1	ND	ND				
Thallium	700	7	6010	1.5	7.5	1	ND	ND				
Vanadium	2400	24	6010	1.8	9.0	1	38	26				
Zinc	5000	250	6010	1.9	9.5	1	79	49				

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: YC

PROJECT: 7600 TYRONE

COC 13-1321

QA/QC Report

I. Blank Spike (BS) / Blank Spike Duplicate (BSD)

DATE ANALYZED: 05/31/13

ANALYTICAL METHOD USEPA 6010/7000

BATCH #: $TTLCS-7732 LN06205 LN06207 LN06214 LN06216

LAB SAMPLE I.D.: BLANK SOIL

UNIT: (Circle One) (mg/kg) mg/L

METAL	SAMPLE RESULT	SPIKE CONC	BS	%BS	(DUP) SPIKE CONC	BSD	%BSD	RPD	BS/BSD % REC LIMIT	RPD LIMIT
Antimony	1.0	200	149	74.0	200	148	73.5	0.7%	14 - 89	< 30
Arsenic	ND	200	194	97.0	200	196	98.0	1.0%	70 - 130	< 30
Barium	---	---	---	---	---	---	---	---	---	---
Beryllium	ND	200	187	93.5	200	188	94.0	0.5%	70 - 130	< 30
Cadmium	ND	200	180	90.0	200	183	91.5	1.7%	70 - 130	< 30
Chromium (T)	ND	200	190	95.0	200	191	95.5	0.5%	70 - 130	< 30
Cobalt	ND	200	194	97.0	200	197	98.5	1.5%	70 - 130	< 30
Copper	ND	200	193	96.5	200	193	96.5	0.0%	70 - 130	< 30
Lead	5.0	200	189	92.0	200	189	92.0	0.0%	70 - 130	< 30
Molybdenum	0.5	200	194	96.8	200	195	97.3	0.5%	70 - 130	< 30
Nickel	1.6	200	193	95.7	200	195	96.7	1.0%	70 - 130	< 30
Selenium	ND	200	180	90.0	200	181	90.5	0.6%	70 - 130	< 30
Silver	---	---	---	---	---	---	---	---	---	---
Thallium	ND	200	105	52.5	200	104	52.0	1.0%	---	---
Vanadium	8.5	200	202	96.8	200	204	97.8	1.0%	70 - 130	< 30
Zinc	4.0	200	175	85.5	200	177	86.5	1.2%	70 - 130	< 30

BS = Blank Spike BSD = Blank Spike Duplicate RPD = Relative Percent Difference

%BS = Percent Recovery of Blank Spike %BSD = Percent Recovery of Blank Spike Duplicate

Analyst: YC

PROJECT: 7600 TYRONE

COC 13-1321

QA/QC Report

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE ANALYZED: 05/30/13 ANALYTICAL METHOD: USEPA 6010/7000

BATCH #: STTLCS-77 (LN06205 LN06207 LN06214 LN06216)

LAB SAMPLE I.D.: LN06205 UNIT: (Circle One) (mg/kg)

METAL	SAMPLE RESULT	SPIKE CONC	MS	%MS	(DUP) SPIKE CONC	MSD	%MSD	RPD	MS/MSD % REC. LIMIT	RPD LIMIT
Antimony	4.6	200	44	19.7	200	44	19.7	0.0%	14 - 89	< 30
Arsenic	ND	200	180	90.0	200	184	92.0	2.2%	70 - 130	< 30
Barium	---	200	---	---	200	---	---	---	70 - 130	< 30
Beryllium	ND	200	184	92.0	200	185	92.5	0.5%	70 - 130	< 30
Cadmium	3.4	200	165	80.8	200	167	81.8	1.2%	70 - 130	< 30
Chromium (T)	22	200	203	90.5	200	206	92.0	1.6%	70 - 130	< 30
Cobalt	17	200	186	84.5	200	189	86.0	1.8%	70 - 130	< 30
Copper	22	200	205	91.5	200	207	92.5	1.1%	70 - 130	< 30
Lead	18	200	178	80.0	200	180	81.0	1.2%	70 - 130	< 30
Molybdenum	ND	200	169	84.5	200	171	85.5	1.2%	70 - 130	< 30
Nickel	22	200	201	89.5	200	205	91.5	2.2%	70 - 130	< 30
Selenium	ND	200	171	85.5	200	175	87.5	2.3%	70 - 130	< 30
Silver	---	200	---	---	200	---	---	---	70 - 130	< 30
Thallium	---	200	---	---	200	---	---	---	70 - 130	< 30
Vanadium	42	200	231	94.5	200	233	95.5	1.1%	70 - 130	< 30
Zinc	77	200	248	85.5	200	243	83.0	3.0%	70 - 130	< 30
Mercury	0.024	0.250	0.298	110	0.250	0.293	108	1.5%	70 - 130	< 30

MS = Matrix Spike MSD = Matrix Spike Duplicate RPD = Relative Percent Difference
%MS = Percent Recovery of Matrix Spike %MSD = Percent Recovery of Matrix Spike Duplicate

Analyst: YC

PROJECT: 7600 TYRONE

COC 13-1321

II. Calibration and Laboratory Quality Control Check Sample (LCS)

DATE ANALYZED: 05/31/13

SUPPLY SOURCE: VHG

LOT NUMBER: 201-0040

ANALYTICAL: USEPA 6010/7000

LAB LCS I.D.: Q8732

UNIT: (Circle One) (mg/kg) mg/L

METAL	LCS RESULTS mg/kg	TRUE VALUE mg/kg	% Recovery	Acceptable Range % Recovery
Antimony	64	80.0	80.0	48 - 84
Arsenic	405	400	101	70 - 130
Barium	394	400	99	70 - 130
Beryllium	10	10.0	100	70 - 130
Cadmium	10.1	10.0	101	70 - 130
Chromium (T)	79	80.0	99	70 - 130
Cobalt	41	40.0	103	70 - 130
Copper	81	80.0	101	70 - 130
Lead	82	80.0	103	70 - 130
Molybdenum	---	---	---	---
Nickel	81	80.0	101	70 - 130
Selenium	186	200	93	70 - 130
Silver	10	10.0	100	70 - 130
Thallium	39	80.0	49	70 - 130
Vanadium	89	80.0	111	70 - 130
Zinc	180	200	90	70 - 130

Analyst: YC

YK 6/7/13

ATTACHMENT #3

TOTAL EXTRACTABLE PETROLEUM
HYDROCARBONS (TEPH)
MOTOR OIL (MO)
DIESEL RANGE ORGANIC (DRO)

EPA METHOD 8015M

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN06205	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B21-1	GC Agilent	053113
LN06207	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B21-3	GC Agilent	053113
LN06214	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B22-1	GC Agilent	053113
LN06216	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B22-3	GC Agilent	053113
LN06217	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B25-1	GC Agilent	053113
LN06219	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B25-3	GC Agilent	053113
LN06229	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B26-1	GC Agilent	053113

	MDL / PQL mg/kg	MB mg/kg	LN06205 mg/kg	LN06207 mg/kg	LN06214 mg/kg	LN06216 mg/kg	LN06217 mg/kg	LN06219 mg/kg	LN06229 mg/kg
Dilution Factor		1	1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	12.6 J	ND	12.6 J	ND	12.5 J	ND	4.4 J
DRO (C10 - C28)	29 / 145	ND	ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	90.5%	87.5%	79.5%	77.5%	97.5%	99.5%	79.5%	104%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1321

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN06231	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B26-3	GC Agilent	060209
LN06241	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B29-1	GC Agilent	060209
LN06243	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B29-3	GC Agilent	060209
LN06259	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B30-1	GC Agilent	060209
LN06261	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B30-3	GC Agilent	060209

	MDL / PQL mg/kg		LN06231 mg/kg	LN06241 mg/kg	LN06243 mg/kg	LN06259 mg/kg	LN06261 mg/kg		
Dilution Factor			1	1	1	1	1		
TEPH (C9 - C36)	4 / 20		ND	12.6 J	4.1 J	12.7 J	12.4 J		
DRO (C10 - C28)	29 / 145		ND	ND	ND	ND	ND		
MOTOR OIL	35 / 175		ND	ND	ND	ND	ND		
Quality Control Data									
Surrogate/Internal Std.	% ACP		% RC	% RC	% RC	% RC	% RC		
1-Chlorooctadecane	(60 - 140)		102%	71.5%	110%	105%	115%		

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1321

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN06216 DUP	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B22-3	GC Agilent	053113

	MDL / PQL mg/kg		LN06216 DUP mg/kg
Dilution Factor			1
TEPH (C9 - C36)	4 / 20		ND
DRO (C10 - C28)	29 / 145		ND
MOTOR OIL	35 / 175		ND
Quality Control Data			
Surrogate/Internal Std.	% ACP		% RC
1-Chlorooctadecane	(60 - 140)		88.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1321

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL
Project: 7600 TYRONE

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8245 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/kg

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		053113	5/31/2013	280	209	74.6	70 - 130
DRO		053113	5/31/2013	500	379	75.8	70 - 130
MO		053113	5/31/2013	500	436	87.2	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan
6/4/13

400004

ATTACHMENT #4

GASOLINE RANGE ORGANICS (GRO)

EPA METHOD 8015B

COC No. 13-1321

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN06205	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B21-1	AG gas	20130530
LN06207	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B21-3	AG gas	20130530
LN06214	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B22-1	AG gas	20130530
LN06216	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B22-3	AG gas	20130530
LN06217	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B25-1	AG gas	20130530
LN06219	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B25-3	AG gas	20130530
LN06229	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B26-1	AG gas	20130530

	MDL / PQL mg/kg	MB mg/kg	LN06205 mg/kg	LN06207 mg/kg	LN06214 mg/kg	LN06216 mg/kg	LN06217 mg/kg	LN06219 mg/kg	LN06229 mg/kg
Dilution Factor	1	1	1	1	1	1	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	109%	107%	104%	108%	108%	108%	107%	108%

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

PQL - Practical Quantitation Limit (5 x MDL)

J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent

% RC = % Recovery

MB - Method Blank

COC No. 13-1321

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN06231	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B26-3	AG gas	20130530
LN06241	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B29-1	AG gas	20130530
LN06243	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B29-3	AG gas	20130530
LN06259	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B30-1	AG gas	20130530
LN06261	05/28/13	05/28/13	05/29/13	05/30/13	7600 TYRONE, B30-3	AG gas	20130530

	MDL / PQL mg/kg	MB mg/kg	LN06231 mg/kg	LN06241 mg/kg	LN06243 mg/kg	LN06259 mg/kg	LN06261 mg/kg		
Dilution Factor	1	1	1	1	1	1	1		
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND		
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC		
	(70 - 130)	109%	108%	107%	107%	108%	107%		

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

ENVIRONMENTAL LABORATORY

QA/QC REPORT
GRO (Gasoline Range Organics)

Sample Matrix: SOIL
Project: 7600 TYRONE

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)
Reporting Unit: mg/kg

SAMPLE	BATCH	SAMPLE	SPIKE						MS/MSD	RPD
LOG NO.	QC	CONC	CONC	MS	% MS	MSD	% MSD	RPD	% ACP	ACP
LN06205	20130530	ND	22.0	22.4	102%	22.9	104%	2.2%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)
LCS Log No. Q8637

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130530	5/29/2013	22.0	20.9	95.0	70 - 130

Analyzed by *B. Estrada*
Reviewed by *R. Gentallan*
RG 6/4/13

ATTACHMENT #5

POLYCHLORINATED BIPHENYLS (PCBs)

EPA Method 8082

ENVIRONMENTAL LABORATORY DATA REPORT

ANALYTICAL RESULT FOR PCBs by EPA600/SR-94/112/8082
(Polychlorinated Biphenyls)
Sample Matrix: Soil (Low Level)

LABORATORY LOG NO	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTECD	DATE ANALYZED	SAMPLE DESCRIPTION
LN06217	5/28/2013	5/28/2013	5/30/2013	5/31/2013	7600 TYRONE, B25-1
LN06219	5/28/2013	5/28/2013	5/30/2013	5/31/2013	7600 TYRONE, B25-3
LN06229	5/28/2013	5/28/2013	5/30/2013	5/31/2013	7600 TYRONE, B26-1
LN06231	5/28/2013	5/28/2013	5/30/2013	5/31/2013	7600 TYRONE, B26-3

PARAMETERS	MDL/PQL (mg/kg)	LN06217 (mg/kg)	LN06219 (mg/kg)	LN06229 (mg/kg)	LN06231 (mg/kg)
PCB - 1221	0.07/0.2	ND	ND	ND	ND
PCB - 1232	0.07/0.2	ND	ND	ND	ND
PCB - 1242	0.07/0.2	ND	ND	ND	ND
PCB - 1248	0.07/0.2	ND	ND	ND	ND
PCB - 1254	0.07/0.2	ND	ND	ND	ND
PCB - 1260	0.07/0.2	ND	ND	ND	ND
SURROGATE PARAMETERS	QC LIMIT %	% Recovery	% Recovery	% Recovery	% Recovery
DECACHLOROBIPHENYL	70 - 130	94	95	98	106

MDL - Method Detection Limit

ND - Not Detected; below method detection limit

Analyst: D. Wong

Reviewed by: 6/4/13

Project Name : Tyrone Property, 7600 Tyrone Ave., Van Nuys, CA

QA/QC Report

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

ANALYTICAL METHOD: USEPA 600/SR-94/112
USEPA 8082

DATE ANALYZED: 06/04/13
BATCH #: 53013
LAB SAMPLE I.D.: LN06364 UNIT: mg/kg

PARAMETERS	SAMPLE RESULT	SPIKE CONC	MS	%MS	(DUP) SPIKE CONC	MSD	%MSD	RPD	MS/MSD % REC. LIMIT	% RPD LIMIT
PCB-1242	0.0	25.0	20.8	83	25.0	20.3	81	2%	70 - 130	30
PCB-1260	0.0	25.0	NR	NR	25.0	NR	NR	NR	70 - 130	30

NR = Not reported dut to matrix interference.

MS - Matrix Spike *MSD - Matrix Spike Dupllicate* *RPD - Relative Percent Difference*
%MS - Percent Recovery of Matrix Spike *%MSD - Percent Recovery of Matrix Spike Duplicate*

Reviewed by: 6/4/13

Project Name : Tyrone Property, 7600 Tyrone Ave., Van Nuys, CA

II. Laboratory Control Check Sample (LCS)

DATE ANALYZED: 06/04/13 ANALYTICAL METHOD: USEPA 600/SR-94/112

BATCH No. 053013 UNIT: mg/kg USEPA 8082

PARAMETERS		TRUE CONC	LCS1 RESULT	LCS1 % RC	LCS2 RESULT	LCS2 % RC	ACCEPTANCE LIMITS (%)
PCB - 1242		25.0	19.6	78	NA	NA	80 - 120
PCB - 1260		25.0	21.9	88	NA	NA	80 - 120

Note: Low LCS recovery for 1242 (78%). Although LCS is 2% below acceptance limit, it should have no significant effect on the quality of this batch of analyses.

%RC - Percent Recovery
NA - Not Analyzed
Batch - ten samples per batch

Reviewed by: 6/4/13

ATTACHMENT #6

PESTICIDES

EPA METHOD 8081

ATTACHMENT #7

Semi Volatile Organic Compounds
(SVOCs)

EPA METHOD 8270C

CERTIFICATE OF ANALYSIS

Client:	LADWP - Environmental Laboratory 1630 North Main Street, Bldg. 7, Rm 311 Los Angeles, CA 90012	**Report Date:**	06/05/13 16:04
		Received Date:	05/30/13 09:50
		Turn Around:	5 workdays
Attention:	Kevin Han	**Work Order #:**	3E30014
Phone:	213-367-7267		
Fax:	(213) 367-7285		49067-3, COC #13-1321,26
		Client Project:	7600 Tyrone Ave,COC #13-1321,26, WO#

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Kevin Han :

Enclosed are the results of analyses for samples received 05/30/13 09:50 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Kim G Tu
Project Manager

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
LN06205	Client		3E30014-01	Solid	05/28/13 08:08
LN06207	Client		3E30014-02	Solid	05/28/13 08:04
LN06214	Client		3E30014-03	Solid	05/28/13 08:50
LN06216	Client		3E30014-04	Solid	05/28/13 08:54
LN06217	Client		3E30014-05	Solid	05/28/13 09:00
LN06219	Client		3E30014-06	Solid	05/28/13 09:04
LN06229	Client		3E30014-07	Solid	05/28/13 09:40
LN06231	Client		3E30014-08	Solid	05/28/13 09:44
LN06241	Client		3E30014-09	Solid	05/28/13 10:20
LN06243	Client		3E30014-10	Solid	05/28/13 10:24
LN06259	Client		3E30014-11	Solid	05/28/13 11:30
LN06261	Client		3E30014-12	Solid	05/28/13 11:34
LN06329	Client		3E30014-13	Solid	05/29/13 08:30
LN06331	Client		3E30014-14	Solid	05/29/13 08:34
LN06335	Client		3E30014-15	Solid	05/29/13 09:00
LN06337	Client		3E30014-16	Solid	05/29/13 09:04
LN06338	Client		3E30014-17	Solid	05/29/13 09:06
LN06340	Client		3E30014-18	Solid	05/29/13 09:10
LN06341	Client		3E30014-19	Solid	05/29/13 09:30
LN06343	Client		3E30014-20	Solid	05/29/13 09:34

ANALYSES

Semivolatile Organic Compounds by GC/MS

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-01 LN06205

Sampled: 05/28/13 08:08 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 16:04 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.085	0.47	0.47	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.47	0.47	mg/kg	1	
1,3-Dichlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.47	0.47	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.47	0.47	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2,4-Dinitrophenol	ND	3.6	23	23	mg/kg	1	
2,4-Dinitrotoluene	ND	0.094	0.47	0.47	mg/kg	1	
2,6-Dinitrotoluene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chloronaphthalene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chlorophenol	ND	0.094	0.47	0.47	mg/kg	1	
2-Methylnaphthalene	ND	0.085	0.47	0.47	mg/kg	1	
2-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
2-Nitrophenol	ND	0.21	0.47	0.47	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.3	2.3	mg/kg	1	
3-Nitroaniline	ND	0.14	0.47	0.47	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.7	4.7	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.066	0.47	0.47	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.47	0.47	mg/kg	1	
4-Chloroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.085	0.47	0.47	mg/kg	1	
4-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Nitrophenol	ND	0.14	0.47	0.47	mg/kg	1	
Acenaphthene	ND	0.085	0.47	0.47	mg/kg	1	
Acenaphthylene	ND	0.085	0.47	0.47	mg/kg	1	
Aniline	ND	0.22	0.47	0.47	mg/kg	1	
Anthracene	ND	0.075	0.47	0.47	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.094	0.47	0.47	mg/kg	1	
Benzidine	ND	1.2	4.7	4.7	mg/kg	1	
Benzo (a) anthracene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (a) pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Benzo (b) fluoranthene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (g,h,i) perylene	**0.10**	0.056	0.94	0.94	mg/kg	1	J
Benzo (k) fluoranthene	ND	0.12	0.47	0.47	mg/kg	1	
Benzoic acid	ND	1.8	23	23	mg/kg	1	
Benzyl alcohol	ND	0.13	0.47	0.47	mg/kg	1	

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-01 **LN06205**

Sampled: 05/28/13 08:08 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 16:04 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.085	0.47	0.47	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.47	0.47	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.47	0.47	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.47	0.47	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.47	0.47	mg/kg	1	
Carbazole	ND	0.085	0.47	0.47	mg/kg	1	
Chrysene	ND	0.085	0.47	0.47	mg/kg	1	
Dibenzo (a,h) anthracene	**0.099**	0.047	0.94	0.94	mg/kg	1	J
Dibenzofuran	ND	0.085	0.47	0.47	mg/kg	1	
Diethyl phthalate	ND	0.056	0.47	0.47	mg/kg	1	
Dimethyl phthalate	ND	0.83	2.3	2.3	mg/kg	1	
Di-n-butyl phthalate	ND	0.075	0.47	0.47	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.47	0.47	mg/kg	1	
Fluoranthene	ND	0.10	0.47	0.47	mg/kg	1	
Fluorene	ND	0.066	0.47	0.47	mg/kg	1	
Hexachlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
Hexachlorobutadiene	ND	0.085	0.47	0.47	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.47	0.47	mg/kg	1	
Hexachloroethane	ND	0.066	0.47	0.47	mg/kg	1	
Indeno (1,2,3-cd) pyrene	**0.15**	0.085	0.94	0.94	mg/kg	1	J
Isophorone	ND	0.094	0.47	0.47	mg/kg	1	
Naphthalene	ND	0.10	0.47	0.47	mg/kg	1	
Nitrobenzene	ND	0.10	0.47	0.47	mg/kg	1	
N-Nitrosodimethylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.066	0.47	0.47	mg/kg	1	
Pentachlorophenol	**0.39**	0.15	0.47	0.47	mg/kg	1	J
Phenanthrene	ND	0.075	0.47	0.47	mg/kg	1	
Phenol	ND	0.14	0.47	0.47	mg/kg	1	
Pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Pyridine	ND	0.047	0.94	0.94	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*70 %*	Conc:*33.0*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*75 %*	Conc:*17.7*		*39-100*	%		
Surr: 2-Fluorophenol	*93 %*	Conc:*43.9*		*26-115*	%		
Surr: Nitrobenzene-d5	*79 %*	Conc:*18.5*		*49-105*	%		
Surr: Phenol-d5	*87 %*	Conc:*40.7*		*36-105*	%		
Surr: Terphenyl-d14	*96 %*	Conc:*22.5*		*36-106*	%		

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LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-02 LN06207

Sampled: 05/28/13 08:04 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 16:34 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.085	0.47	0.47	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.47	0.47	mg/kg	1	
1,3-Dichlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.47	0.47	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.47	0.47	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2,4-Dinitrophenol	ND	3.6	24	24	mg/kg	1	
2,4-Dinitrotoluene	ND	0.094	0.47	0.47	mg/kg	1	
2,6-Dinitrotoluene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chloronaphthalene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chlorophenol	ND	0.094	0.47	0.47	mg/kg	1	
2-Methylnaphthalene	ND	0.085	0.47	0.47	mg/kg	1	
2-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
2-Nitrophenol	ND	0.21	0.47	0.47	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.4	2.4	mg/kg	1	
3-Nitroaniline	ND	0.14	0.47	0.47	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.7	4.7	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.066	0.47	0.47	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.47	0.47	mg/kg	1	
4-Chloroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.085	0.47	0.47	mg/kg	1	
4-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Nitrophenol	ND	0.14	0.47	0.47	mg/kg	1	
Acenaphthene	ND	0.085	0.47	0.47	mg/kg	1	
Acenaphthylene	ND	0.085	0.47	0.47	mg/kg	1	
Aniline	ND	0.22	0.47	0.47	mg/kg	1	
Anthracene	ND	0.075	0.47	0.47	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.094	0.47	0.47	mg/kg	1	
Benzidine	ND	1.2	4.7	4.7	mg/kg	1	
Benzo (a) anthracene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (a) pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Benzo (b) fluoranthene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.057	0.94	0.94	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.47	0.47	mg/kg	1	
Benzoic acid	ND	1.8	24	24	mg/kg	1	
Benzyl alcohol	ND	0.13	0.47	0.47	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-02 LN06207

Sampled: 05/28/13 08:04 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 16:34 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.085	0.47	0.47	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.47	0.47	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.47	0.47	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.47	0.47	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.47	0.47	mg/kg	1	
Carbazole	ND	0.085	0.47	0.47	mg/kg	1	
Chrysene	ND	0.085	0.47	0.47	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.047	0.94	0.94	mg/kg	1	
Dibenzofuran	ND	0.085	0.47	0.47	mg/kg	1	
Diethyl phthalate	ND	0.057	0.47	0.47	mg/kg	1	
Dimethyl phthalate	ND	0.83	2.4	2.4	mg/kg	1	
Di-n-butyl phthalate	ND	0.075	0.47	0.47	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.47	0.47	mg/kg	1	
Fluoranthene	ND	0.10	0.47	0.47	mg/kg	1	
Fluorene	ND	0.066	0.47	0.47	mg/kg	1	
Hexachlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
Hexachlorobutadiene	ND	0.085	0.47	0.47	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.47	0.47	mg/kg	1	
Hexachloroethane	ND	0.066	0.47	0.47	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.085	0.94	0.94	mg/kg	1	
Isophorone	ND	0.094	0.47	0.47	mg/kg	1	
Naphthalene	ND	0.10	0.47	0.47	mg/kg	1	
Nitrobenzene	ND	0.10	0.47	0.47	mg/kg	1	
N-Nitrosodimethylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.066	0.47	0.47	mg/kg	1	
Pentachlorophenol	ND	0.15	0.47	0.47	mg/kg	1	
Phenanthrene	ND	0.075	0.47	0.47	mg/kg	1	
Phenol	ND	0.14	0.47	0.47	mg/kg	1	
Pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Pyridine	ND	0.047	0.94	0.94	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*58 %*	Conc:27.2		*40-97*	%		
Surr: 2-Fluorobiphenyl	*64 %*	Conc:15.2		*39-100*	%		
Surr: 2-Fluorophenol	*73 %*	Conc:34.2		*26-115*	%		
Surr: Nitrobenzene-d5	*67 %*	Conc:15.8		*49-105*	%		
Surr: Phenol-d5	*72 %*	Conc:33.8		*36-105*	%		
Surr: Terphenyl-d14	*73 %*	Conc:17.3		*36-106*	%		

800006

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-03 **LN06214**

Sampled: 05/28/13 08:50 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/04/13 20:08 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.089	0.49	0.49	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.49	0.49	mg/kg	1	
1,3-Dichlorobenzene	ND	0.079	0.49	0.49	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.49	0.49	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.49	0.49	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.099	0.49	0.49	mg/kg	1	
2,6-Dinitrotoluene	ND	0.079	0.49	0.49	mg/kg	1	
2-Chloronaphthalene	ND	0.079	0.49	0.49	mg/kg	1	
2-Chlorophenol	ND	0.099	0.49	0.49	mg/kg	1	
2-Methylnaphthalene	ND	0.089	0.49	0.49	mg/kg	1	
2-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
2-Nitrophenol	ND	0.22	0.49	0.49	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.49	0.49	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.9	4.9	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.49	0.49	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.49	0.49	mg/kg	1	
4-Chloroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.089	0.49	0.49	mg/kg	1	
4-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Nitrophenol	ND	0.15	0.49	0.49	mg/kg	1	
Acenaphthene	ND	0.089	0.49	0.49	mg/kg	1	
Acenaphthylene	ND	0.089	0.49	0.49	mg/kg	1	
Aniline	ND	0.23	0.49	0.49	mg/kg	1	
Anthracene	ND	0.079	0.49	0.49	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.099	0.49	0.49	mg/kg	1	
Benzidine	ND	1.2	4.9	4.9	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (a) pyrene	ND	0.079	0.49	0.49	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.99	0.99	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.49	0.49	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.49	0.49	mg/kg	1	

800007

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-03 **LN06214**

Sampled: 05/28/13 08:50 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 20:08 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.089	0.49	0.49	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.49	0.49	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.49	0.49	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.49	0.49	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.49	0.49	mg/kg	1	
Carbazole	ND	0.089	0.49	0.49	mg/kg	1	
Chrysene	ND	0.089	0.49	0.49	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.049	0.99	0.99	mg/kg	1	
Dibenzofuran	ND	0.089	0.49	0.49	mg/kg	1	
Diethyl phthalate	ND	0.059	0.49	0.49	mg/kg	1	
Dimethyl phthalate	ND	0.87	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.079	0.49	0.49	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.49	0.49	mg/kg	1	
Fluoranthene	ND	0.11	0.49	0.49	mg/kg	1	
Fluorene	ND	0.069	0.49	0.49	mg/kg	1	
Hexachlorobenzene	ND	0.079	0.49	0.49	mg/kg	1	
Hexachlorobutadiene	ND	0.089	0.49	0.49	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.49	0.49	mg/kg	1	
Hexachloroethane	ND	0.069	0.49	0.49	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.089	0.99	0.99	mg/kg	1	
Isophorone	ND	0.099	0.49	0.49	mg/kg	1	
Naphthalene	ND	0.11	0.49	0.49	mg/kg	1	
Nitrobenzene	ND	0.11	0.49	0.49	mg/kg	1	
N-Nitrosodimethylamine	ND	0.089	0.49	0.49	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.089	0.49	0.49	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.49	0.49	mg/kg	1	
Pentachlorophenol	ND	0.16	0.49	0.49	mg/kg	1	
Phenanthrene	ND	0.079	0.49	0.49	mg/kg	1	
Phenol	ND	0.15	0.49	0.49	mg/kg	1	
Pyrene	ND	0.079	0.49	0.49	mg/kg	1	
Pyridine	ND	0.049	0.99	0.99	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*62 %*	Conc:*30.4*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*69 %*	Conc:*17.1*		*39-100*	%		
Surr: 2-Fluorophenol	*79 %*	Conc:*38.9*		*26-115*	%		
Surr: Nitrobenzene-d5	*70 %*	Conc:*17.3*		*49-105*	%		
Surr: Phenol-d5	*76 %*	Conc:*37.5*		*36-105*	%		
Surr: Terphenyl-d14	*81 %*	Conc:*20.1*		*36-106*	%		

800068

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-04 LN06216

Sampled: 05/28/13 08:54 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 20:38 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.088	0.49	0.49	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.49	0.49	mg/kg	1	
1,3-Dichlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.49	0.49	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.49	0.49	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.098	0.49	0.49	mg/kg	1	
2,6-Dinitrotoluene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chloronaphthalene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chlorophenol	ND	0.098	0.49	0.49	mg/kg	1	
2-Methylnaphthalene	ND	0.088	0.49	0.49	mg/kg	1	
2-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
2-Nitrophenol	ND	0.22	0.49	0.49	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.49	0.49	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.9	4.9	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.49	0.49	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.49	0.49	mg/kg	1	
4-Chloroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.088	0.49	0.49	mg/kg	1	
4-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Nitrophenol	ND	0.15	0.49	0.49	mg/kg	1	
Acenaphthene	ND	0.088	0.49	0.49	mg/kg	1	
Acenaphthylene	ND	0.088	0.49	0.49	mg/kg	1	
Aniline	ND	0.23	0.49	0.49	mg/kg	1	
Anthracene	ND	0.078	0.49	0.49	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.098	0.49	0.49	mg/kg	1	
Benzidine	ND	1.2	4.9	4.9	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (a) pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.98	0.98	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.49	0.49	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.49	0.49	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-04 **LN06216**

Sampled: 05/28/13 08:54 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 20:38 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.088	0.49	0.49	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.49	0.49	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.49	0.49	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.49	0.49	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.49	0.49	mg/kg	1	
Carbazole	ND	0.088	0.49	0.49	mg/kg	1	
Chrysene	ND	0.088	0.49	0.49	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.049	0.98	0.98	mg/kg	1	
Dibenzofuran	ND	0.088	0.49	0.49	mg/kg	1	
Diethyl phthalate	ND	0.059	0.49	0.49	mg/kg	1	
Dimethyl phthalate	ND	0.86	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.078	0.49	0.49	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.49	0.49	mg/kg	1	
Fluoranthene	ND	0.11	0.49	0.49	mg/kg	1	
Fluorene	ND	0.069	0.49	0.49	mg/kg	1	
Hexachlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
Hexachlorobutadiene	ND	0.088	0.49	0.49	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.49	0.49	mg/kg	1	
Hexachloroethane	ND	0.069	0.49	0.49	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.088	0.98	0.98	mg/kg	1	
Isophorone	ND	0.098	0.49	0.49	mg/kg	1	
Naphthalene	ND	0.11	0.49	0.49	mg/kg	1	
Nitrobenzene	ND	0.11	0.49	0.49	mg/kg	1	
N-Nitrosodimethylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.49	0.49	mg/kg	1	
Pentachlorophenol	ND	0.16	0.49	0.49	mg/kg	1	
Phenanthrene	ND	0.078	0.49	0.49	mg/kg	1	
Phenol	ND	0.15	0.49	0.49	mg/kg	1	
Pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Pyridine	ND	0.049	0.98	0.98	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*52 %*	Conc:*25.5*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*63 %*	Conc:*15.4*		*39-100*	%		
Surr: 2-Fluorophenol	*71 %*	Conc:*35.0*		*26-115*	%		
Surr: Nitrobenzene-d5	*65 %*	Conc:*16.0*		*49-105*	%		
Surr: Phenol-d5	*70 %*	Conc:*34.3*		*36-105*	%		
Surr: Terphenyl-d14	*72 %*	Conc:*17.6*		*36-106*	%		

800010

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-05 LN06217

Sampled: 05/28/13 09:00 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 21:08 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.089	0.50	0.50	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.50	0.50	mg/kg	1	
1,3-Dichlorobenzene	ND	0.079	0.50	0.50	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.50	0.50	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.50	0.50	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2,4-Dinitrophenol	ND	3.8	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.099	0.50	0.50	mg/kg	1	
2,6-Dinitrotoluene	ND	0.079	0.50	0.50	mg/kg	1	
2-Chloronaphthalene	ND	0.079	0.50	0.50	mg/kg	1	
2-Chlorophenol	ND	0.099	0.50	0.50	mg/kg	1	
2-Methylnaphthalene	ND	0.089	0.50	0.50	mg/kg	1	
2-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
2-Nitrophenol	ND	0.22	0.50	0.50	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.50	0.50	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	5.0	5.0	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.50	0.50	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.50	0.50	mg/kg	1	
4-Chloroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.089	0.50	0.50	mg/kg	1	
4-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Nitrophenol	ND	0.15	0.50	0.50	mg/kg	1	
Acenaphthene	ND	0.089	0.50	0.50	mg/kg	1	
Acenaphthylene	ND	0.089	0.50	0.50	mg/kg	1	
Aniline	ND	0.23	0.50	0.50	mg/kg	1	
Anthracene	ND	0.079	0.50	0.50	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.099	0.50	0.50	mg/kg	1	
Benzidine	ND	1.2	5.0	5.0	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.50	0.50	mg/kg	1	
Benzo (a) pyrene	ND	0.079	0.50	0.50	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.50	0.50	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.99	0.99	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.50	0.50	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.50	0.50	mg/kg	1	

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-05 **LN06217**

Sampled: 05/28/13 09:00 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 21:08 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.089	0.50	0.50	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.50	0.50	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.50	0.50	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.50	0.50	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.50	0.50	mg/kg	1	
Carbazole	ND	0.089	0.50	0.50	mg/kg	1	
Chrysene	ND	0.089	0.50	0.50	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.050	0.99	0.99	mg/kg	1	
Dibenzofuran	ND	0.089	0.50	0.50	mg/kg	1	
Diethyl phthalate	ND	0.059	0.50	0.50	mg/kg	1	
Dimethyl phthalate	ND	0.87	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.079	0.50	0.50	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.50	0.50	mg/kg	1	
Fluoranthene	ND	0.11	0.50	0.50	mg/kg	1	
Fluorene	ND	0.069	0.50	0.50	mg/kg	1	
Hexachlorobenzene	ND	0.079	0.50	0.50	mg/kg	1	
Hexachlorobutadiene	ND	0.089	0.50	0.50	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.50	0.50	mg/kg	1	
Hexachloroethane	ND	0.069	0.50	0.50	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.089	0.99	0.99	mg/kg	1	
Isophorone	ND	0.099	0.50	0.50	mg/kg	1	
Naphthalene	ND	0.11	0.50	0.50	mg/kg	1	
Nitrobenzene	ND	0.11	0.50	0.50	mg/kg	1	
N-Nitrosodimethylamine	ND	0.089	0.50	0.50	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.089	0.50	0.50	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.50	0.50	mg/kg	1	
Pentachlorophenol	ND	0.16	0.50	0.50	mg/kg	1	
Phenanthrene	ND	0.079	0.50	0.50	mg/kg	1	
Phenol	ND	0.15	0.50	0.50	mg/kg	1	
Pyrene	ND	0.079	0.50	0.50	mg/kg	1	
Pyridine	ND	0.050	0.99	0.99	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*49 %*	Conc:*24.4*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*59 %*	Conc:*14.6*		*39-100*	%		
Surr: 2-Fluorophenol	*66 %*	Conc:*32.6*		*26-115*	%		
Surr: Nitrobenzene-d5	*61 %*	Conc:*15.1*		*49-105*	%		
Surr: Phenol-d5	*65 %*	Conc:*32.3*		*36-105*	%		
Surr: Terphenyl-d14	*62 %*	Conc:*15.3*		*36-106*	%		

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800012

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-06 **LN06219**

Sampled: 05/28/13 09:04 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 21:39 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.080	0.45	0.45	mg/kg	1	
1,2-Dichlorobenzene	ND	0.098	0.45	0.45	mg/kg	1	
1,3-Dichlorobenzene	ND	0.071	0.45	0.45	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.45	0.45	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.098	0.45	0.45	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.098	0.45	0.45	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.45	0.45	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2,4-Dinitrophenol	ND	3.4	22	22	mg/kg	1	
2,4-Dinitrotoluene	ND	0.089	0.45	0.45	mg/kg	1	
2,6-Dinitrotoluene	ND	0.071	0.45	0.45	mg/kg	1	
2-Chloronaphthalene	ND	0.071	0.45	0.45	mg/kg	1	
2-Chlorophenol	ND	0.089	0.45	0.45	mg/kg	1	
2-Methylnaphthalene	ND	0.080	0.45	0.45	mg/kg	1	
2-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
2-Nitrophenol	ND	0.20	0.45	0.45	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.3	2.2	2.2	mg/kg	1	
3-Nitroaniline	ND	0.13	0.45	0.45	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.5	4.5	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.062	0.45	0.45	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.098	0.45	0.45	mg/kg	1	
4-Chloroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.080	0.45	0.45	mg/kg	1	
4-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Nitrophenol	ND	0.13	0.45	0.45	mg/kg	1	
Acenaphthene	ND	0.080	0.45	0.45	mg/kg	1	
Acenaphthylene	ND	0.080	0.45	0.45	mg/kg	1	
Aniline	ND	0.21	0.45	0.45	mg/kg	1	
Anthracene	ND	0.071	0.45	0.45	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.089	0.45	0.45	mg/kg	1	
Benzidine	ND	1.1	4.5	4.5	mg/kg	1	
Benzo (a) anthracene	ND	0.062	0.45	0.45	mg/kg	1	
Benzo (a) pyrene	ND	0.071	0.45	0.45	mg/kg	1	
Benzo (b) fluoranthene	ND	0.062	0.45	0.45	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.054	0.89	0.89	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.45	0.45	mg/kg	1	
Benzoic acid	ND	1.7	22	22	mg/kg	1	
Benzyl alcohol	ND	0.12	0.45	0.45	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-06 **LN06219**

Sampled: 05/28/13 09:04 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 21:39 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.080	0.45	0.45	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.098	0.45	0.45	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.12	0.45	0.45	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.45	0.45	mg/kg	1	
Butyl benzyl phthalate	ND	0.13	0.45	0.45	mg/kg	1	
Carbazole	ND	0.080	0.45	0.45	mg/kg	1	
Chrysene	ND	0.080	0.45	0.45	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.045	0.89	0.89	mg/kg	1	
Dibenzofuran	ND	0.080	0.45	0.45	mg/kg	1	
Diethyl phthalate	ND	0.054	0.45	0.45	mg/kg	1	
Dimethyl phthalate	ND	0.79	2.2	2.2	mg/kg	1	
Di-n-butyl phthalate	ND	0.071	0.45	0.45	mg/kg	1	
Di-n-octyl phthalate	ND	0.12	0.45	0.45	mg/kg	1	
Fluoranthene	ND	0.098	0.45	0.45	mg/kg	1	
Fluorene	ND	0.062	0.45	0.45	mg/kg	1	
Hexachlorobenzene	ND	0.071	0.45	0.45	mg/kg	1	
Hexachlorobutadiene	ND	0.080	0.45	0.45	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.45	0.45	mg/kg	1	
Hexachloroethane	ND	0.062	0.45	0.45	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.080	0.89	0.89	mg/kg	1	
Isophorone	ND	0.089	0.45	0.45	mg/kg	1	
Naphthalene	ND	0.098	0.45	0.45	mg/kg	1	
Nitrobenzene	ND	0.098	0.45	0.45	mg/kg	1	
N-Nitrosodimethylamine	ND	0.080	0.45	0.45	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.080	0.45	0.45	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.062	0.45	0.45	mg/kg	1	
Pentachlorophenol	ND	0.14	0.45	0.45	mg/kg	1	
Phenanthrene	ND	0.071	0.45	0.45	mg/kg	1	
Phenol	ND	0.13	0.45	0.45	mg/kg	1	
Pyrene	ND	0.071	0.45	0.45	mg/kg	1	
Pyridine	ND	0.045	0.89	0.89	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*51 %*	Conc:*22.8*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*64 %*	Conc:*14.3*		*39-100*	%		
Surr: 2-Fluorophenol	*73 %*	Conc:*32.8*		*26-115*	%		
Surr: Nitrobenzene-d5	*67 %*	Conc:*14.9*		*49-105*	%		
Surr: Phenol-d5	*71 %*	Conc:*31.9*		*36-105*	%		
Surr: Terphenyl-d14	*74 %*	Conc:*16.5*		*36-106*	%		

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800014

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-07 **LN06229**

Sampled: 05/28/13 09:40 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 22:09 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.085	0.47	0.47	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.47	0.47	mg/kg	1	
1,3-Dichlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.47	0.47	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.47	0.47	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2,4-Dinitrophenol	ND	3.6	23	23	mg/kg	1	
2,4-Dinitrotoluene	ND	0.094	0.47	0.47	mg/kg	1	
2,6-Dinitrotoluene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chloronaphthalene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chlorophenol	ND	0.094	0.47	0.47	mg/kg	1	
2-Methylnaphthalene	ND	0.085	0.47	0.47	mg/kg	1	
2-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
2-Nitrophenol	ND	0.21	0.47	0.47	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.3	2.3	mg/kg	1	
3-Nitroaniline	ND	0.14	0.47	0.47	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.7	4.7	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.066	0.47	0.47	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.47	0.47	mg/kg	1	
4-Chloroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.085	0.47	0.47	mg/kg	1	
4-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Nitrophenol	ND	0.14	0.47	0.47	mg/kg	1	
Acenaphthene	ND	0.085	0.47	0.47	mg/kg	1	
Acenaphthylene	ND	0.085	0.47	0.47	mg/kg	1	
Aniline	ND	0.22	0.47	0.47	mg/kg	1	
Anthracene	ND	0.075	0.47	0.47	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.094	0.47	0.47	mg/kg	1	
Benzidine	ND	1.2	4.7	4.7	mg/kg	1	
Benzo (a) anthracene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (a) pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Benzo (b) fluoranthene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.056	0.94	0.94	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.47	0.47	mg/kg	1	
Benzoic acid	ND	1.8	23	23	mg/kg	1	
Benzyl alcohol	ND	0.13	0.47	0.47	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-07 **LN06229**

Sampled: 05/28/13 09:40 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 22:09 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.085	0.47	0.47	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.47	0.47	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.47	0.47	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.47	0.47	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.47	0.47	mg/kg	1	
Carbazole	ND	0.085	0.47	0.47	mg/kg	1	
Chrysene	ND	0.085	0.47	0.47	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.047	0.94	0.94	mg/kg	1	
Dibenzofuran	ND	0.085	0.47	0.47	mg/kg	1	
Diethyl phthalate	ND	0.056	0.47	0.47	mg/kg	1	
Dimethyl phthalate	ND	0.83	2.3	2.3	mg/kg	1	
Di-n-butyl phthalate	ND	0.075	0.47	0.47	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.47	0.47	mg/kg	1	
Fluoranthene	ND	0.10	0.47	0.47	mg/kg	1	
Fluorene	ND	0.066	0.47	0.47	mg/kg	1	
Hexachlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
Hexachlorobutadiene	ND	0.085	0.47	0.47	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.47	0.47	mg/kg	1	
Hexachloroethane	ND	0.066	0.47	0.47	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.085	0.94	0.94	mg/kg	1	
Isophorone	ND	0.094	0.47	0.47	mg/kg	1	
Naphthalene	ND	0.10	0.47	0.47	mg/kg	1	
Nitrobenzene	ND	0.10	0.47	0.47	mg/kg	1	
N-Nitrosodimethylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.066	0.47	0.47	mg/kg	1	
Pentachlorophenol	ND	0.15	0.47	0.47	mg/kg	1	
Phenanthrene	ND	0.075	0.47	0.47	mg/kg	1	
Phenol	ND	0.14	0.47	0.47	mg/kg	1	
Pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Pyridine	ND	0.047	0.94	0.94	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*46 %*	Conc:*21.5*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*57 %*	Conc:*13.4*		*39-100*	%		
Surr: 2-Fluorophenol	*62 %*	Conc:*29.0*		*26-115*	%		
Surr: Nitrobenzene-d5	*58 %*	Conc:*13.7*		*49-105*	%		
Surr: Phenol-d5	*61 %*	Conc:*28.8*		*36-105*	%		
Surr: Terphenyl-d14	*82 %*	Conc:*19.2*		*36-106*	%		

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-08 **LN06231**

Sampled: 05/28/13 09:44 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 22:39 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.077	0.43	0.43	mg/kg	1	
1,2-Dichlorobenzene	ND	0.094	0.43	0.43	mg/kg	1	
1,3-Dichlorobenzene	ND	0.068	0.43	0.43	mg/kg	1	
1,4-Dichlorobenzene	ND	0.10	0.43	0.43	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.094	0.43	0.43	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.094	0.43	0.43	mg/kg	1	
2,4-Dichlorophenol	ND	0.11	0.43	0.43	mg/kg	1	
2,4-Dimethylphenol	ND	0.10	0.43	0.43	mg/kg	1	
2,4-Dinitrophenol	ND	3.2	21	21	mg/kg	1	
2,4-Dinitrotoluene	ND	0.085	0.43	0.43	mg/kg	1	
2,6-Dinitrotoluene	ND	0.068	0.43	0.43	mg/kg	1	
2-Chloronaphthalene	ND	0.068	0.43	0.43	mg/kg	1	
2-Chlorophenol	ND	0.085	0.43	0.43	mg/kg	1	
2-Methylnaphthalene	ND	0.077	0.43	0.43	mg/kg	1	
2-Methylphenol	ND	0.10	0.43	0.43	mg/kg	1	
2-Nitroaniline	ND	0.11	0.43	0.43	mg/kg	1	
2-Nitrophenol	ND	0.19	0.43	0.43	mg/kg	1	
3 & 4-Methylphenol	ND	0.10	0.43	0.43	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.3	2.1	2.1	mg/kg	1	
3-Nitroaniline	ND	0.13	0.43	0.43	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.3	4.3	4.3	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.060	0.43	0.43	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.094	0.43	0.43	mg/kg	1	
4-Chloroaniline	ND	0.11	0.43	0.43	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.077	0.43	0.43	mg/kg	1	
4-Nitroaniline	ND	0.11	0.43	0.43	mg/kg	1	
4-Nitrophenol	ND	0.13	0.43	0.43	mg/kg	1	
Acenaphthene	ND	0.077	0.43	0.43	mg/kg	1	
Acenaphthylene	ND	0.077	0.43	0.43	mg/kg	1	
Aniline	ND	0.20	0.43	0.43	mg/kg	1	
Anthracene	ND	0.068	0.43	0.43	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.085	0.43	0.43	mg/kg	1	
Benzidine	ND	1.1	4.3	4.3	mg/kg	1	
Benzo (a) anthracene	ND	0.060	0.43	0.43	mg/kg	1	
Benzo (a) pyrene	ND	0.068	0.43	0.43	mg/kg	1	
Benzo (b) fluoranthene	ND	0.060	0.43	0.43	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.051	0.85	0.85	mg/kg	1	
Benzo (k) fluoranthene	ND	0.11	0.43	0.43	mg/kg	1	
Benzoic acid	ND	1.6	21	21	mg/kg	1	
Benzyl alcohol	ND	0.12	0.43	0.43	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-08 **LN06231**

Sampled: 05/28/13 09:44 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 22:39 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.077	0.43	0.43	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.094	0.43	0.43	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.12	0.43	0.43	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.10	0.43	0.43	mg/kg	1	
Butyl benzyl phthalate	ND	0.13	0.43	0.43	mg/kg	1	
Carbazole	ND	0.077	0.43	0.43	mg/kg	1	
Chrysene	ND	0.077	0.43	0.43	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.043	0.85	0.85	mg/kg	1	
Dibenzofuran	ND	0.077	0.43	0.43	mg/kg	1	
Diethyl phthalate	ND	0.051	0.43	0.43	mg/kg	1	
Dimethyl phthalate	ND	0.75	2.1	2.1	mg/kg	1	
Di-n-butyl phthalate	ND	0.068	0.43	0.43	mg/kg	1	
Di-n-octyl phthalate	ND	0.12	0.43	0.43	mg/kg	1	
Fluoranthene	ND	0.094	0.43	0.43	mg/kg	1	
Fluorene	ND	0.060	0.43	0.43	mg/kg	1	
Hexachlorobenzene	ND	0.068	0.43	0.43	mg/kg	1	
Hexachlorobutadiene	ND	0.077	0.43	0.43	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.10	0.43	0.43	mg/kg	1	
Hexachloroethane	ND	0.060	0.43	0.43	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.077	0.85	0.85	mg/kg	1	
Isophorone	ND	0.085	0.43	0.43	mg/kg	1	
Naphthalene	ND	0.094	0.43	0.43	mg/kg	1	
Nitrobenzene	ND	0.094	0.43	0.43	mg/kg	1	
N-Nitrosodimethylamine	ND	0.077	0.43	0.43	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.077	0.43	0.43	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.060	0.43	0.43	mg/kg	1	
Pentachlorophenol	ND	0.14	0.43	0.43	mg/kg	1	
Phenanthrene	ND	0.068	0.43	0.43	mg/kg	1	
Phenol	ND	0.13	0.43	0.43	mg/kg	1	
Pyrene	ND	0.068	0.43	0.43	mg/kg	1	
Pyridine	ND	0.043	0.85	0.85	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*55 %*	Conc:*23.2*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*66 %*	Conc:*14.0*		*39-100*	%		
Surr: 2-Fluorophenol	*78 %*	Conc:*33.3*		*26-115*	%		
Surr: Nitrobenzene-d5	*69 %*	Conc:*14.6*		*49-105*	%		
Surr: Phenol-d5	*76 %*	Conc:*32.5*		*36-105*	%		
Surr: Terphenyl-d14	*76 %*	Conc:*16.3*		*36-106*	%		

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-09 **LN06241**

Sampled: 05/28/13 10:20 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 23:10 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.089	0.49	0.49	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.49	0.49	mg/kg	1	
1,3-Dichlorobenzene	ND	0.079	0.49	0.49	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.49	0.49	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.49	0.49	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.099	0.49	0.49	mg/kg	1	
2,6-Dinitrotoluene	ND	0.079	0.49	0.49	mg/kg	1	
2-Chloronaphthalene	ND	0.079	0.49	0.49	mg/kg	1	
2-Chlorophenol	ND	0.099	0.49	0.49	mg/kg	1	
2-Methylnaphthalene	ND	0.089	0.49	0.49	mg/kg	1	
2-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
2-Nitrophenol	ND	0.22	0.49	0.49	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.49	0.49	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.9	4.9	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.49	0.49	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.49	0.49	mg/kg	1	
4-Chloroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.089	0.49	0.49	mg/kg	1	
4-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Nitrophenol	ND	0.15	0.49	0.49	mg/kg	1	
Acenaphthene	ND	0.089	0.49	0.49	mg/kg	1	
Acenaphthylene	ND	0.089	0.49	0.49	mg/kg	1	
Aniline	ND	0.23	0.49	0.49	mg/kg	1	
Anthracene	ND	0.079	0.49	0.49	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.099	0.49	0.49	mg/kg	1	
Benzidine	ND	1.2	4.9	4.9	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (a) pyrene	ND	0.079	0.49	0.49	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (g,h,i) perylene	**0.12**	0.059	0.99	0.99	mg/kg	1	J
Benzo (k) fluoranthene	ND	0.13	0.49	0.49	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.49	0.49	mg/kg	1	

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-09 **LN06241**

Sampled: 05/28/13 10:20 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 23:10 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.089	0.49	0.49	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.49	0.49	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.49	0.49	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.49	0.49	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.49	0.49	mg/kg	1	
Carbazole	ND	0.089	0.49	0.49	mg/kg	1	
Chrysene	ND	0.089	0.49	0.49	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.049	0.99	0.99	mg/kg	1	
Dibenzofuran	ND	0.089	0.49	0.49	mg/kg	1	
Diethyl phthalate	ND	0.059	0.49	0.49	mg/kg	1	
Dimethyl phthalate	ND	0.87	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.079	0.49	0.49	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.49	0.49	mg/kg	1	
Fluoranthene	ND	0.11	0.49	0.49	mg/kg	1	
Fluorene	ND	0.069	0.49	0.49	mg/kg	1	
Hexachlorobenzene	ND	0.079	0.49	0.49	mg/kg	1	
Hexachlorobutadiene	ND	0.089	0.49	0.49	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.49	0.49	mg/kg	1	
Hexachloroethane	ND	0.069	0.49	0.49	mg/kg	1	
Indeno (1,2,3-cd) pyrene	**0.17**	0.089	0.99	0.99	mg/kg	1	J
Isophorone	ND	0.099	0.49	0.49	mg/kg	1	
Naphthalene	ND	0.11	0.49	0.49	mg/kg	1	
Nitrobenzene	ND	0.11	0.49	0.49	mg/kg	1	
N-Nitrosodimethylamine	ND	0.089	0.49	0.49	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.089	0.49	0.49	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.49	0.49	mg/kg	1	
Pentachlorophenol	ND	0.16	0.49	0.49	mg/kg	1	
Phenanthrene	ND	0.079	0.49	0.49	mg/kg	1	
Phenol	ND	0.15	0.49	0.49	mg/kg	1	
Pyrene	ND	0.079	0.49	0.49	mg/kg	1	
Pyridine	ND	0.049	0.99	0.99	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*52 %*	Conc:*25.5*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*62 %*	Conc:*15.3*		*39-100*	%		
Surr: 2-Fluorophenol	*74 %*	Conc:*36.3*		*26-115*	%		
Surr: Nitrobenzene-d5	*67 %*	Conc:*16.4*		*49-105*	%		
Surr: Phenol-d5	*71 %*	Conc:*35.2*		*36-105*	%		
Surr: Terphenyl-d14	*68 %*	Conc:*16.6*		*36-106*	%		

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800020

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-10 **LN06243**

Sampled: 05/28/13 10:24 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 23:40 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.080	0.45	0.45	mg/kg	1	
1,2-Dichlorobenzene	ND	0.098	0.45	0.45	mg/kg	1	
1,3-Dichlorobenzene	ND	0.071	0.45	0.45	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.45	0.45	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.098	0.45	0.45	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.098	0.45	0.45	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.45	0.45	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2,4-Dinitrophenol	ND	3.4	22	22	mg/kg	1	
2,4-Dinitrotoluene	ND	0.089	0.45	0.45	mg/kg	1	
2,6-Dinitrotoluene	ND	0.071	0.45	0.45	mg/kg	1	
2-Chloronaphthalene	ND	0.071	0.45	0.45	mg/kg	1	
2-Chlorophenol	ND	0.089	0.45	0.45	mg/kg	1	
2-Methylnaphthalene	ND	0.080	0.45	0.45	mg/kg	1	
2-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
2-Nitrophenol	ND	0.20	0.45	0.45	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.3	2.2	2.2	mg/kg	1	
3-Nitroaniline	ND	0.13	0.45	0.45	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.5	4.5	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.062	0.45	0.45	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.098	0.45	0.45	mg/kg	1	
4-Chloroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.080	0.45	0.45	mg/kg	1	
4-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Nitrophenol	ND	0.13	0.45	0.45	mg/kg	1	
Acenaphthene	ND	0.080	0.45	0.45	mg/kg	1	
Acenaphthylene	ND	0.080	0.45	0.45	mg/kg	1	
Aniline	ND	0.21	0.45	0.45	mg/kg	1	
Anthracene	ND	0.071	0.45	0.45	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.089	0.45	0.45	mg/kg	1	
Benzidine	ND	1.1	4.5	4.5	mg/kg	1	
Benzo (a) anthracene	ND	0.062	0.45	0.45	mg/kg	1	
Benzo (a) pyrene	ND	0.071	0.45	0.45	mg/kg	1	
Benzo (b) fluoranthene	ND	0.062	0.45	0.45	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.054	0.89	0.89	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.45	0.45	mg/kg	1	
Benzoic acid	ND	1.7	22	22	mg/kg	1	
Benzyl alcohol	ND	0.12	0.45	0.45	mg/kg	1	

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LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-10 **LN06243**

Sampled: 05/28/13 10:24 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/04/13 23:40 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.080	0.45	0.45	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.098	0.45	0.45	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.12	0.45	0.45	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.45	0.45	mg/kg	1	
Butyl benzyl phthalate	ND	0.13	0.45	0.45	mg/kg	1	
Carbazole	ND	0.080	0.45	0.45	mg/kg	1	
Chrysene	ND	0.080	0.45	0.45	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.045	0.89	0.89	mg/kg	1	
Dibenzofuran	ND	0.080	0.45	0.45	mg/kg	1	
Diethyl phthalate	ND	0.054	0.45	0.45	mg/kg	1	
Dimethyl phthalate	ND	0.79	2.2	2.2	mg/kg	1	
Di-n-butyl phthalate	ND	0.071	0.45	0.45	mg/kg	1	
Di-n-octyl phthalate	ND	0.12	0.45	0.45	mg/kg	1	
Fluoranthene	ND	0.098	0.45	0.45	mg/kg	1	
Fluorene	ND	0.062	0.45	0.45	mg/kg	1	
Hexachlorobenzene	ND	0.071	0.45	0.45	mg/kg	1	
Hexachlorobutadiene	ND	0.080	0.45	0.45	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.45	0.45	mg/kg	1	
Hexachloroethane	ND	0.062	0.45	0.45	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.080	0.89	0.89	mg/kg	1	
Isophorone	ND	0.089	0.45	0.45	mg/kg	1	
Naphthalene	ND	0.098	0.45	0.45	mg/kg	1	
Nitrobenzene	ND	0.098	0.45	0.45	mg/kg	1	
N-Nitrosodimethylamine	ND	0.080	0.45	0.45	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.080	0.45	0.45	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.062	0.45	0.45	mg/kg	1	
Pentachlorophenol	ND	0.14	0.45	0.45	mg/kg	1	
Phenanthrene	ND	0.071	0.45	0.45	mg/kg	1	
Phenol	ND	0.13	0.45	0.45	mg/kg	1	
Pyrene	ND	0.071	0.45	0.45	mg/kg	1	
Pyridine	ND	0.045	0.89	0.89	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*61 %*	Conc:*27.4*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*70 %*	Conc:*15.7*		*39-100*	%		
Surr: 2-Fluorophenol	*82 %*	Conc:*36.6*		*26-115*	%		
Surr: Nitrobenzene-d5	*74 %*	Conc:*16.5*		*49-105*	%		
Surr: Phenol-d5	*78 %*	Conc:*34.8*		*36-105*	%		
Surr: Terphenyl-d14	*79 %*	Conc:*17.6*		*36-106*	%		

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-11 **LN06259**

Sampled: 05/28/13 11:30 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 00:11 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.083	0.46	0.46	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.46	0.46	mg/kg	1	
1,3-Dichlorobenzene	ND	0.074	0.46	0.46	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.46	0.46	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.46	0.46	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.46	0.46	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.46	0.46	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.46	0.46	mg/kg	1	
2,4-Dinitrophenol	ND	3.5	23	23	mg/kg	1	
2,4-Dinitrotoluene	ND	0.092	0.46	0.46	mg/kg	1	
2,6-Dinitrotoluene	ND	0.074	0.46	0.46	mg/kg	1	
2-Chloronaphthalene	ND	0.074	0.46	0.46	mg/kg	1	
2-Chlorophenol	ND	0.092	0.46	0.46	mg/kg	1	
2-Methylnaphthalene	ND	0.083	0.46	0.46	mg/kg	1	
2-Methylphenol	ND	0.11	0.46	0.46	mg/kg	1	
2-Nitroaniline	ND	0.12	0.46	0.46	mg/kg	1	
2-Nitrophenol	ND	0.20	0.46	0.46	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.46	0.46	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.3	2.3	mg/kg	1	
3-Nitroaniline	ND	0.14	0.46	0.46	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.6	4.6	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.065	0.46	0.46	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.46	0.46	mg/kg	1	
4-Chloroaniline	ND	0.12	0.46	0.46	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.083	0.46	0.46	mg/kg	1	
4-Nitroaniline	ND	0.12	0.46	0.46	mg/kg	1	
4-Nitrophenol	ND	0.14	0.46	0.46	mg/kg	1	
Acenaphthene	ND	0.083	0.46	0.46	mg/kg	1	
Acenaphthylene	ND	0.083	0.46	0.46	mg/kg	1	
Aniline	ND	0.21	0.46	0.46	mg/kg	1	
Anthracene	ND	0.074	0.46	0.46	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.092	0.46	0.46	mg/kg	1	
Benzidine	ND	1.2	4.6	4.6	mg/kg	1	
Benzo (a) anthracene	ND	0.065	0.46	0.46	mg/kg	1	
Benzo (a) pyrene	ND	0.074	0.46	0.46	mg/kg	1	
Benzo (b) fluoranthene	ND	0.065	0.46	0.46	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.055	0.92	0.92	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.46	0.46	mg/kg	1	
Benzoic acid	ND	1.8	23	23	mg/kg	1	
Benzyl alcohol	ND	0.13	0.46	0.46	mg/kg	1	

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-11 LN06259

Sampled: 05/28/13 11:30 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 00:11 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.083	0.46	0.46	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.46	0.46	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.46	0.46	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.46	0.46	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.46	0.46	mg/kg	1	
Carbazole	ND	0.083	0.46	0.46	mg/kg	1	
Chrysene	ND	0.083	0.46	0.46	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.046	0.92	0.92	mg/kg	1	
Dibenzofuran	ND	0.083	0.46	0.46	mg/kg	1	
Diethyl phthalate	ND	0.055	0.46	0.46	mg/kg	1	
Dimethyl phthalate	ND	0.81	2.3	2.3	mg/kg	1	
Di-n-butyl phthalate	ND	0.074	0.46	0.46	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.46	0.46	mg/kg	1	
Fluoranthene	ND	0.10	0.46	0.46	mg/kg	1	
Fluorene	ND	0.065	0.46	0.46	mg/kg	1	
Hexachlorobenzene	ND	0.074	0.46	0.46	mg/kg	1	
Hexachlorobutadiene	ND	0.083	0.46	0.46	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.46	0.46	mg/kg	1	
Hexachloroethane	ND	0.065	0.46	0.46	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.083	0.92	0.92	mg/kg	1	
Isophorone	ND	0.092	0.46	0.46	mg/kg	1	
Naphthalene	ND	0.10	0.46	0.46	mg/kg	1	
Nitrobenzene	ND	0.10	0.46	0.46	mg/kg	1	
N-Nitrosodimethylamine	ND	0.083	0.46	0.46	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.083	0.46	0.46	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.065	0.46	0.46	mg/kg	1	
Pentachlorophenol	ND	0.15	0.46	0.46	mg/kg	1	
Phenanthrene	ND	0.074	0.46	0.46	mg/kg	1	
Phenol	ND	0.14	0.46	0.46	mg/kg	1	
Pyrene	ND	0.074	0.46	0.46	mg/kg	1	
Pyridine	ND	0.046	0.92	0.92	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*56 %*	Conc:*25.8*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*69 %*	Conc:*15.9*		*39-100*	%		
Surr: 2-Fluorophenol	*82 %*	Conc:*37.9*		*26-115*	%		
Surr: Nitrobenzene-d5	*72 %*	Conc:*16.5*		*49-105*	%		
Surr: Phenol-d5	*77 %*	Conc:*35.4*		*36-105*	%		
Surr: Terphenyl-d14	*75 %*	Conc:*17.4*		*36-106*	%		

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800024

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-12 LN06261

Sampled: 05/28/13 11:34 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 00:41 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.085	0.47	0.47	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.47	0.47	mg/kg	1	
1,3-Dichlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.47	0.47	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.47	0.47	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.47	0.47	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2,4-Dinitrophenol	ND	3.6	24	24	mg/kg	1	
2,4-Dinitrotoluene	ND	0.094	0.47	0.47	mg/kg	1	
2,6-Dinitrotoluene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chloronaphthalene	ND	0.075	0.47	0.47	mg/kg	1	
2-Chlorophenol	ND	0.094	0.47	0.47	mg/kg	1	
2-Methylnaphthalene	ND	0.085	0.47	0.47	mg/kg	1	
2-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
2-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
2-Nitrophenol	ND	0.21	0.47	0.47	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.47	0.47	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.4	2.4	mg/kg	1	
3-Nitroaniline	ND	0.14	0.47	0.47	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.7	4.7	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.066	0.47	0.47	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.47	0.47	mg/kg	1	
4-Chloroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.085	0.47	0.47	mg/kg	1	
4-Nitroaniline	ND	0.12	0.47	0.47	mg/kg	1	
4-Nitrophenol	ND	0.14	0.47	0.47	mg/kg	1	
Acenaphthene	ND	0.085	0.47	0.47	mg/kg	1	
Acenaphthylene	ND	0.085	0.47	0.47	mg/kg	1	
Aniline	ND	0.22	0.47	0.47	mg/kg	1	
Anthracene	ND	0.075	0.47	0.47	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.094	0.47	0.47	mg/kg	1	
Benzidine	ND	1.2	4.7	4.7	mg/kg	1	
Benzo (a) anthracene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (a) pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Benzo (b) fluoranthene	ND	0.066	0.47	0.47	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.057	0.94	0.94	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.47	0.47	mg/kg	1	
Benzoic acid	ND	1.8	24	24	mg/kg	1	
Benzyl alcohol	ND	0.13	0.47	0.47	mg/kg	1	

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-12 LN06261

Sampled: 05/28/13 11:34 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 00:41 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.085	0.47	0.47	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.47	0.47	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.47	0.47	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.47	0.47	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.47	0.47	mg/kg	1	
Carbazole	ND	0.085	0.47	0.47	mg/kg	1	
Chrysene	ND	0.085	0.47	0.47	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.047	0.94	0.94	mg/kg	1	
Dibenzofuran	ND	0.085	0.47	0.47	mg/kg	1	
Diethyl phthalate	ND	0.057	0.47	0.47	mg/kg	1	
Dimethyl phthalate	ND	0.83	2.4	2.4	mg/kg	1	
Di-n-butyl phthalate	ND	0.075	0.47	0.47	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.47	0.47	mg/kg	1	
Fluoranthene	ND	0.10	0.47	0.47	mg/kg	1	
Fluorene	ND	0.066	0.47	0.47	mg/kg	1	
Hexachlorobenzene	ND	0.075	0.47	0.47	mg/kg	1	
Hexachlorobutadiene	ND	0.085	0.47	0.47	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.47	0.47	mg/kg	1	
Hexachloroethane	ND	0.066	0.47	0.47	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.085	0.94	0.94	mg/kg	1	
Isophorone	ND	0.094	0.47	0.47	mg/kg	1	
Naphthalene	ND	0.10	0.47	0.47	mg/kg	1	
Nitrobenzene	ND	0.10	0.47	0.47	mg/kg	1	
N-Nitrosodimethylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.085	0.47	0.47	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.066	0.47	0.47	mg/kg	1	
Pentachlorophenol	ND	0.15	0.47	0.47	mg/kg	1	
Phenanthrene	ND	0.075	0.47	0.47	mg/kg	1	
Phenol	ND	0.14	0.47	0.47	mg/kg	1	
Pyrene	ND	0.075	0.47	0.47	mg/kg	1	
Pyridine	ND	0.047	0.94	0.94	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*55 %*	Conc:*26.1*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*67 %*	Conc:*15.7*		*39-100*	%		
Surr: 2-Fluorophenol	*78 %*	Conc:*36.9*		*26-115*	%		
Surr: Nitrobenzene-d5	*70 %*	Conc:*16.6*		*49-105*	%		
Surr: Phenol-d5	*75 %*	Conc:*35.5*		*36-105*	%		
Surr: Terphenyl-d14	*76 %*	Conc:*18.0*		*36-106*	%		

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

QUALITY CONTROL SECTION

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3F0001-BLK1)				Analyzed: 06/04/13 14:03						
1,2,4-Trichlorobenzene	ND	0.050	mg/kg							
1,2-Dichlorobenzene	ND	0.050	mg/kg							
1,3-Dichlorobenzene	ND	0.050	mg/kg							
1,4-Dichlorobenzene	ND	0.050	mg/kg							
2,4,5-Trichlorophenol	ND	0.050	mg/kg							
2,4,6-Trichlorophenol	ND	0.050	mg/kg							
2,4-Dichlorophenol	ND	0.050	mg/kg							
2,4-Dimethylphenol	ND	0.050	mg/kg							
2,4-Dinitrophenol	ND	2.5	mg/kg							
2,4-Dinitrotoluene	ND	0.050	mg/kg							
2,6-Dinitrotoluene	ND	0.050	mg/kg							
2-Chloronaphthalene	ND	0.050	mg/kg							
2-Chlorophenol	ND	0.050	mg/kg							
2-Methylnaphthalene	ND	0.050	mg/kg							
2-Methylphenol	ND	0.050	mg/kg							
2-Nitroaniline	ND	0.050	mg/kg							
2-Nitrophenol	ND	0.050	mg/kg							
3 & 4-Methylphenol	ND	0.050	mg/kg							
3,3'-Dichlorobenzidine	ND	0.25	mg/kg							
3-Nitroaniline	ND	0.050	mg/kg							
4,6-Dinitro-2-methylphenol	ND	0.50	mg/kg							
4-Bromophenyl phenyl ether	ND	0.050	mg/kg							
4-Chloro-3-methylphenol	ND	0.050	mg/kg							
4-Chloroaniline	ND	0.050	mg/kg							
4-Chlorophenyl phenyl ether	ND	0.050	mg/kg							
4-Nitroaniline	ND	0.050	mg/kg							
4-Nitrophenol	ND	0.050	mg/kg							
Acenaphthene	ND	0.050	mg/kg							
Acenaphthylene	ND	0.050	mg/kg							
Aniline	ND	0.050	mg/kg							
Anthracene	ND	0.050	mg/kg							
Azobenzene/1,2-Diphenylhydrazine	ND	0.050	mg/kg							
Benzidine	ND	0.50	mg/kg							
Benzo (a) anthracene	ND	0.050	mg/kg							
Benzo (a) pyrene	ND	0.050	mg/kg							
Benzo (b) fluoranthene	ND	0.050	mg/kg							
Benzo (g,h,i) perylene	ND	0.10	mg/kg							
Benzo (k) fluoranthene	ND	0.050	mg/kg							
Benzoic acid	ND	2.5	mg/kg							
Benzyl alcohol	ND	0.050	mg/kg							
Bis(2-chloroethoxy)methane	ND	0.050	mg/kg							
Bis(2-chloroethyl)ether	ND	0.050	mg/kg							
Bis(2-chloroisopropyl)ether	ND	0.050	mg/kg							
Bis(2-ethylhexyl)phthalate	0.0305	0.050	mg/kg					NR		J

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3F0001-BLK1)				Analyzed: 06/04/13 14:03						
Butyl benzyl phthalate	ND	0.050	mg/kg							
Carbazole	ND	0.050	mg/kg							
Chrysene	ND	0.050	mg/kg							
Dibenzo (a,h) anthracene	ND	0.10	mg/kg							
Dibenzofuran	ND	0.050	mg/kg							
Diethyl phthalate	ND	0.050	mg/kg							
Dimethyl phthalate	ND	0.25	mg/kg							
Di-n-butyl phthalate	0.0315	0.050	mg/kg					NR		J
Di-n-octyl phthalate	ND	0.050	mg/kg							
Fluoranthene	ND	0.050	mg/kg							
Fluorene	ND	0.050	mg/kg							
Hexachlorobenzene	ND	0.050	mg/kg							
Hexachlorobutadiene	ND	0.050	mg/kg							
Hexachlorocyclopentadiene	ND	0.050	mg/kg							
Hexachloroethane	ND	0.050	mg/kg							
Indeno (1,2,3-cd) pyrene	ND	0.10	mg/kg							
Isophorone	ND	0.050	mg/kg							
Naphthalene	ND	0.050	mg/kg							
Nitrobenzene	ND	0.050	mg/kg							
N-Nitrosodimethylamine	ND	0.050	mg/kg							
N-Nitrosodi-n-propylamine	ND	0.050	mg/kg							
N-Nitrosodiphenylamine	ND	0.050	mg/kg							
Pentachlorophenol	ND	0.050	mg/kg							
Phenanthrene	ND	0.050	mg/kg							
Phenol	ND	0.050	mg/kg							
Pyrene	ND	0.050	mg/kg							
Pyridine	ND	0.10	mg/kg							
Surr: 2,4,6-Tribromophenol	*4.31*		*mg/kg*	*5.00*		*86*	*40-97*			
Surr: 2-Fluorobiphenyl	*2.47*		*mg/kg*	*2.50*		*99*	*39-100*			
Surr: 2-Fluorophenol	*7.19*		*mg/kg*	*5.00*		*144*	*26-115*			*S-11*
Surr: Nitrobenzene-d5	*2.55*		*mg/kg*	*2.50*		*102*	*49-105*			
Surr: Phenol-d5	*5.47*		*mg/kg*	*5.00*		*109*	*36-105*			*S-11*
Surr: Terphenyl-d14	*2.80*		*mg/kg*	*2.50*		*112*	*36-106*			*S-11*
LCS (W3F0001-BS1)				Analyzed: 06/04/13 14:33						
1,2,4-Trichlorobenzene	1.94	0.050	mg/kg	2.50		78	28-120	NR		
1,4-Dichlorobenzene	1.98	0.050	mg/kg	2.50		79	41-98	NR		
2,4-Dinitrotoluene	2.07	0.050	mg/kg	2.50		83	43-121	NR		
2-Chlorophenol	1.96	0.050	mg/kg	2.50		78	22-123	NR		
4-Chloro-3-methylphenol	1.88	0.050	mg/kg	2.50		75	26-126	NR		
4-Nitrophenol	1.81	0.050	mg/kg	2.50		72	17-139	NR		
Acenaphthene	2.07	0.050	mg/kg	2.50		83	44-105	NR		
N-Nitrosodi-n-propylamine	2.00	0.050	mg/kg	2.50		80	24-128	NR		
Pentachlorophenol	1.80	0.050	mg/kg	2.50		72	20-116	NR		

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W3F0001-BS1)				Analyzed: 06/04/13 14:33						
Phenol	1.82	0.050	mg/kg	2.50		73	22-123	NR		
Pyrene	2.13	0.050	mg/kg	2.50		85	42-118	NR		
Surr: 2,4,6-Tribromophenol	*3.91*		*mg/kg*	*5.00*		*78*	*40-97*			
Surr: 2-Fluorobiphenyl	*2.15*		*mg/kg*	*2.50*		*86*	*39-100*			
Surr: 2-Fluorophenol	*4.65*		*mg/kg*	*5.00*		*93*	*26-115*			
Surr: Nitrobenzene-d5	*1.99*		*mg/kg*	*2.50*		*80*	*49-105*			
Surr: Phenol-d5	*4.22*		*mg/kg*	*5.00*		*84*	*36-105*			
Surr: Terphenyl-d14	*2.35*		*mg/kg*	*2.50*		*94*	*36-106*			
Matrix Spike (W3F0001-MS1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:03						
1,2,4-Trichlorobenzene	16.2	0.49	mg/kg	24.4	ND	66	26-124	NR		
1,4-Dichlorobenzene	16.9	0.49	mg/kg	24.4	ND	69	28-117	NR		
2,4-Dinitrotoluene	19.2	0.49	mg/kg	24.4	ND	79	26-132	NR		
2-Chlorophenol	16.4	0.49	mg/kg	24.4	ND	67	24-124	NR		
4-Chloro-3-methylphenol	15.9	0.49	mg/kg	24.4	ND	65	5-153	NR		
4-Nitrophenol	17.6	0.49	mg/kg	24.4	ND	72	0.6-139	NR		
Acenaphthene	17.6	0.49	mg/kg	24.4	ND	72	33-117	NR		
N-Nitrosodi-n-propylamine	16.5	0.49	mg/kg	24.4	ND	68	20-128	NR		
Pentachlorophenol	16.9	0.49	mg/kg	24.4	0.394	68	7-125	NR		
Phenol	15.8	0.49	mg/kg	24.4	ND	65	40-120	NR		
Pyrene	20.1	0.49	mg/kg	24.4	ND	83	22-148	NR		
Surr: 2,4,6-Tribromophenol	*34.6*		*mg/kg*	*48.8*		*71*	*40-97*			
Surr: 2-Fluorobiphenyl	*17.3*		*mg/kg*	*24.4*		*71*	*39-100*			
Surr: 2-Fluorophenol	*35.6*		*mg/kg*	*48.8*		*73*	*26-115*			
Surr: Nitrobenzene-d5	*16.1*		*mg/kg*	*24.4*		*66*	*49-105*			
Surr: Phenol-d5	*34.3*		*mg/kg*	*48.8*		*70*	*36-105*			
Surr: Terphenyl-d14	*21.4*		*mg/kg*	*24.4*		*88*	*36-106*			
Matrix Spike Dup (W3F0001-MSD1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:33						
1,2,4-Trichlorobenzene	14.9	0.48	mg/kg	23.9	ND	62	26-124	8	30	
1,4-Dichlorobenzene	15.5	0.48	mg/kg	23.9	ND	65	28-117	9	30	
2,4-Dinitrotoluene	15.8	0.48	mg/kg	23.9	ND	66	26-132	19	30	
2-Chlorophenol	15.3	0.48	mg/kg	23.9	ND	64	24-124	7	30	
4-Chloro-3-methylphenol	14.4	0.48	mg/kg	23.9	ND	60	5-153	10	30	
4-Nitrophenol	13.6	0.48	mg/kg	23.9	ND	57	0.6-139	25	30	
Acenaphthene	16.0	0.48	mg/kg	23.9	ND	67	33-117	10	30	
N-Nitrosodi-n-propylamine	14.2	0.48	mg/kg	23.9	ND	59	20-128	15	30	
Pentachlorophenol	12.3	0.48	mg/kg	23.9	0.394	50	7-125	31	30	MS-05
Phenol	14.5	0.48	mg/kg	23.9	ND	61	40-120	9	30	
Pyrene	15.6	0.48	mg/kg	23.9	ND	65	22-148	25	30	
Surr: 2,4,6-Tribromophenol	*27.8*		*mg/kg*	*47.8*		*58*	*40-97*			
Surr: 2-Fluorobiphenyl	*14.9*		*mg/kg*	*23.9*		*62*	*39-100*			
Surr: 2-Fluorophenol	*31.0*		*mg/kg*	*47.8*		*65*	*26-115*			
Surr: Nitrobenzene-d5	*14.6*		*mg/kg*	*23.9*		*61*	*49-105*			
Surr: Phenol-d5	*30.1*		*mg/kg*	*47.8*		*63*	*36-105*			

800030

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike Dup (W3F0001-MSD1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:33						
Surr: Terphenyl-d14	*15.7*		*mg/kg*	*23.9*		*66*	*36-106*			

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Notes and Definitions

S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit
NR	Not Reportable

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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DEPARTMENT OF WATER & POWER
OF THE CITY OF LOS ANGELES
Power System
Integrated Support Services

ENVIRONMENTAL LABORATORY DATA REPORT

CLIENT: GEORGE FAEUSTLE

PROJECT: 7600 TYRONE AVE

REPORT NO.: C12055 (Revised and Updated)

TABLE OF CONTENTS

DEPARTMENT OF WATER & POWER
OF THE CITY OF LOS ANGELES
Power System
Integrated Support Services

Report No. C12055
COC 13-1326
Page 1 of 1 w/ attachments
Updated and Revised

ENVIRONMENTAL LABORATORY DATA REPORT

7600 TYRONE AVE, VAN NUYS
Soil Samples

Soil samples from 7600 Tyrone Ave, Van Nuys, were submitted to the Environmental Laboratory on May 29, 2013 for the determination of their Volatile Organic Compounds (VOC), Metals, Semi-Volatile Organic Compounds (SVOC), Total Extractable Petroleum Hydrocarbons (TEPH) including Motor Oil (MO) and Diesel Range Organic (DRO), Chlorinated Pesticides, Polychlorinated Biphenyls (PCBs), and Gasoline Range Organics (GRO) content.

Testing information including tests requested and test methods are listed below. All quality assurance data indicate that the results for these samples are of acceptable quality.

Analysis Requested	Method	Results	Analyzed by
VOC	EPA 8260 B	**Attachment #1**	Environmental Lab
Metals	EPA 6010B/7471	**Attachment #2**	Environmental Lab
TEPH/Diesel/Motor Oil	EPA 8015M	**Attachment #3**	Environmental Lab
GRO	EPA 8015B	**Attachment #4**	Environmental Lab
PCB	EPA 8082	**Attachment #5**	Weck Laboratories
Pesticides	EPA 8081A	**Attachment #6**	Weck Laboratories
SVOC	EPA 8270 C	**Attachment #7**	Weck Laboratories

This report has been updated to include Pesticide Analyses (EPA 8081A- Attachment #6). The report was also revised as the MDL for Mercury Analysis in the original report was listed in parts per billion (ug/kg) instead of parts per million (mg/kg).

Additionally, please not that VOC analyses in Attachment #1 include results for this project from COC-1321 as well.

If you have any questions, or if further information is required, please contact Mr. Jeremy Stoa at (213) 367-7266 or Mr. Kevin Han at (213) 367-7267.

Date Completed: 6/6/2013
Work Order No.: AHJ17
Job Card No.: J95550
Copies to: G. Faeustle
N. Liu
K. Han
J. Stoa
FileNet

Test Performed by: Environmental Lab
Weck Laboratories
Report By: JS/LK Date: 6/14/13
Checked by: JMC Date: 6/14/13

APPROVED BY: Kevin Han 6/14/13
Kevin Han Date
Interim Laboratory Manager
Environmental Laboratory

Environme l Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
(213) 367-7248/7399
(213) 367-7285 FAX

Department of Water and Pc r
City of Los Angeles
Chain of Custody Record

COC #: 13-1326

Report C# 12055 JC# J95550 WO# 44J17
Refrig#. R154 Shelf ______ Bin#. ______
Initial of Field Personnel: KD
No. of Field Test: ______

Sample Location: Tyrone Property, 7600 Tyrone Ave, Van Nuys, CA

Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1 B12-1' LN06314	5/28/13	1300		ICE	3	SLEEVE		SOIL	Pb (6010B)		
2 -2' 06315		1302	ARCHIVE/HOLD						(ARCHIVE)		
3 -3' 06316		1304									
4 B17-1' 06317		1306							As (6010B)		
5 -2' 06318		1308	ARCHIVE/HOLD						(ARCHIVE)		
6 -3' 06319		1310									
7 B13-1' 06320	5/29/13	0745			3	SLEEVE			OCPs (8081A)/As (6010B)		
8 -2' 06321		0747	ARCHIVE/HOLD RUSH						(ARCHIVE)		
9 -3' 06322		0749									
10 B15-1' 06323		0800									
11 -2' 06324		0802	ARCHIVE/HOLD						(ARCHIVE)		
12 -3' 06325		0804									
13 B16-1 06326		0810									
14 -2 06327		0812	ARCHIVE/HOLD						(ARCHIVE)		
15 -3 06328		0814									
16 B23-1 06329		0830		5035/ICE	5	SLEEVE			Title 22 Metals (6010B/7471A)/TPHcc (8015M)/SVOCs (8270C)/PCBs (8082)		

Date & Time Stamp
LADWP 2013 MAY 29 AM 10: RECD BY: ENV. CHEM LAB

COC13-1326

Chem Lab COC Form #1 Revision: 08/01/02

Requester George Fraustre/K. Drake Organization/Div. LADWP/Alta Environ.
Address ______ Tel. ______ Fax ______

Analyst: ______ Date ______
Approved: ______ Date ______

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify STANDARD

	Printed Name	Signature	Time	Date
Sampled by:	K. Drake (Alta Environmental)	[signature]	1000	5/29/13
Relinquished by:	K. Drake	[signature]	1030	5/29/13
Received by	T NGUYEN	[signature]	1040	5/29/13

BE YC TY BT JS DW
LK RG KH

*Please archive/Hold all 2' samples pending the 1' + 3' Results
*Do NOT analyze 2' samples

Environme J Laboratory
1630 N. Main Street, Bldg. 7, 3rd Flr.
Los Angeles, CA. 90012
(213) 367-7248/7399
(213) 367-7285 FAX

Department of Water and Po..er
City of Los Angeles
Chain of Custody Record

COC #: 13-1326 Page 2 of 2

Report C#_____ JC#_____ WO#_____
Refrig#._____ Shelf _____ Bin#._____
Initial of Field Personnel: KN No. of Field Test:

Sample Location: TYRONE PROPERTY

	Chem Lab use only CHEMISTRY LOG NUMBERS (For sample duplicates use .1 or .X)	Sample Date	(24 Hr) Sample Time	Sample Location and Description	Preservatives	Container No.	Container Type	Container Size	Sample Matrix	Analysis Required	Test Result	Analyst(s) Assigned
1	B23-1' LN06330	5/29/13	0832	ARCHIVE/HOLD	5035/ICE	5	SLEEVE		SOIL	(ARCHIVE) (6010B) (8015M) (8270C) (6082)		
2	-3' 06331		0834		↓	↓	↓		↓	TitleZZ Metals/TPHcc/SVOCs/PCBs		
3	B24-1' 06332		0840		ICE	3	SLEEVE		SOIL	OCPs(8081A)+As(6010B)		
4	-2' 06333		0842	ARCHIVE/HOLD		↓	↓	↓		(ARCHIVE)		
5	-3' 06334		0844									
6	B27-1 06335		0900		5035/ICE	7				(6010B) Metals-T22/TPHcc/VOCs/SVOCs/(8082) PCBs		
7	-2 06336		0902	ARCHIVE/HOLD						(ARCHIVE)		
8	-3 06337		0904									
9	B24-1 06338		0906			5				T22 Metals/TPHcc/SVOCs		
10	-2 06339		0908	ARCHIVE/HOLD						(ARCHIVE)		
11	-3 06340		0910									
12	B28-1 06341		0930			7				T22 Metals/TPHcc/VOCs/SVOCs/PCB/(8081A) OCPs		
13	-2 06342		0932	ARCHIVE/HOLD						(ARCHIVE)		
14	-3 06343		0934									
15												
16												

Date & Time Stamp: LADWP 2013 MAY 29 41 RECD BY: ENV. CHEM LAB

Requester G. FERGUSON / K. DRAKE Organization/Div. LADWP / ALTA ENVIRON.
Address _____ Tel. _____ Fax _____

Analyst: _____ Date _____
Approved: _____ Date _____

Chem Lab COC Form #1
Revision: 08/01/02

>> COC Label Here <<

Priority
2-4 Hrs
1Day
2 Wks
4Wks
Specify STANDARD

	Printed Name	Signature	Time	Date
Sampled by:	K. DRAKE (ALTA)		1000	5/29/13
Relinquished by:	K. DRAKE (ALTA)		1030	5/29/13
Received by	T NGUYEN		1040	5/29/13

DO NOT include 2' samples — please ARCHIVE/HOLD pending analysis of 1' + 3' samples.

ATTACHMENT #1

VOLATILE ORGANIC COMPOUNDS (VOC)

EPA METHOD 8260 B

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06217	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-1
LN06219	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-3
LN06229	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-1
LN06231	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-3
LN06335	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-1
LN06337	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-3
LN06341	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-1

Compounds	MDL ug/kg	PQL ug/kg	LN06217 Amount ug/kg	LN06219 Amount ug/kg	LN06229 Amount ug/kg	LN06231 Amount ug/kg	LN06335 Amount ug/kg	LN06337 Amount ug/kg	LN06341 Amount ug/kg
Acetone	32	160.0	nd	nd	nd	nd	nd	nd	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Benzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromobenzene	26	130.0	nd	nd	nd	nd	nd	nd	nd
Bromochloromethane	24	120.0	nd	nd	nd	nd	nd	nd	nd
Bromodichloromethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
Bromoform	23	115.0	nd	nd	nd	nd	nd	nd	nd
Bromomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl ethyl ketone (MEK)	26	130.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd	nd	nd	nd	nd	nd	nd
Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
sec-Butylbenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
tert-Butylbenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd	nd	nd	nd	nd	nd	nd
Carbon disulfide	116	580.0	nd	nd	nd	nd	nd	nd	nd
Carbon Tetrachloride	32	160.0	nd	nd	nd	nd	nd	nd	nd
Chlorobenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Chloroethane	42	210.0	nd	nd	nd	nd	nd	nd	nd
2-Chloroethyl vinyl ether	23	115.0	nd	nd	nd	nd	nd	nd	nd
Chloroform	30	150.0	nd	nd	nd	nd	nd	nd	nd
Chloromethane	70	350.0	nd	nd	nd	nd	nd	nd	nd
2-Chlorotoluene	27	135.0	nd	nd	nd	nd	nd	nd	nd
4-Chlorotoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Dibromochloromethane	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dibromoethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Dibromomethane	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichlorobenzene	27	135.0	nd	nd	nd	nd	nd	nd	nd
1,4-Dichlorobenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
Dichlorodifluoromethane	37	185.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethane	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloroethane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloroethene	28	140.0	nd	nd	nd	nd	nd	nd	nd
cis-1,2-Dichloroethene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,2-Dichloroethene	32	160.0	nd	nd	nd	nd	nd	nd	nd
1,2-Dichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,3-Dichloropropane	21	105.0	nd	nd	nd	nd	nd	nd	nd
2,2-Dichloropropane	38	190.0	nd	nd	nd	nd	nd	nd	nd
1,1-Dichloropropene	27	135.0	nd	nd	nd	nd	nd	nd	nd
cis-1,3-Dichloropropene	26	130.0	nd	nd	nd	nd	nd	nd	nd
trans-1,3-Dichloropropene	29	145.0	nd	nd	nd	nd	nd	nd	nd
Diisopropyl ether (DIPE)	26	130.0	nd	nd	nd	nd	nd	nd	nd
Ethylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Hexachlorobutadiene	44	220.0	nd	nd	nd	nd	nd	nd	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06217	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-1
LN06219	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B25-3
LN06229	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-1
LN06231	5/28/2013	5/28/2013	6/3/2013	7600 TYRONE, B26-3
LN06335	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-1
LN06337	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B27-3
LN06341	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-1

Compounds	MDL ug/kg	PQL ug/kg	LN06217 Amount ug/kg	LN06219 Amount ug/kg	LN06229 Amount ug/kg	LN06231 Amount ug/kg	LN06335 Amount ug/kg	LN06337 Amount ug/kg	LN06341 Amount ug/kg
2-Hexanone	21	105.0	nd	nd	nd	nd	nd	nd	nd
Isopropylbenzene	33	165.0	nd	nd	nd	nd	nd	nd	nd
p-Isopropyltoluene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd	nd	nd	nd	nd	nd	nd
Methylene chloride	31	155.0	nd	nd	nd	nd	nd	nd	nd
Iodomethane	20	100.0	nd	nd	nd	nd	nd	nd	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd	nd	nd	nd	nd	nd	nd
Naphthalene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Propylbenzene	30	150.0	nd	nd	nd	nd	nd	nd	nd
Styrene	33	165.0	nd	nd	nd	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd	nd	nd	nd	nd	nd	nd
Tetrachloroethylene	27	135.0	nd	nd	nd	nd	nd	nd	nd
Toluene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichlorobenzene	29	145.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trichlorobenzene	31	155.0	nd	nd	nd	nd	nd	nd	nd
1,1,1-Trichloroethane	26	130.0	nd	nd	nd	nd	nd	nd	nd
1,1,2-Trichloroethane	23	115.0	nd	nd	nd	nd	nd	nd	nd
Trichloroethylene	24	120.0	nd	nd	nd	nd	nd	nd	nd
Trichlorofluoromethane	35	175.0	nd	nd	nd	nd	nd	nd	nd
1,2,3-Trichloropropane	22	110.0	nd	nd	nd	nd	nd	nd	nd
1,2,4-Trimethylbenzene	25	125.0	nd	nd	nd	nd	nd	nd	nd
1,3,5-Trimethylbenzene	28	140.0	nd	nd	nd	nd	nd	nd	nd
Vinyl acetate	52	260.0	nd	nd	nd	nd	nd	nd	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd	nd	nd	nd	nd	nd	nd
m & p-Xylene	75	375.0	nd	nd	nd	nd	nd	nd	nd
o-Xylene	28	140.0	nd	nd	nd	nd	nd	nd	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper							
SURR: Bromofluorobenzene	74 - 121	104.0%	103.7%	102.7%	103.3%	102.3%	103.3%	102.7%
SURR: Dibromofluoromethane	80 - 120	97.0%	96.0%	95.0%	96.3%	95.3%	95.3%	95.3%
SURR: Toluene-d8	81 - 117	93.7%	92.3%	90.0%	92.3%	92.3%	92.3%	92.3%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06343	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-3

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN06343 Amount (ug/kg)
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
2-Butanone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
n-Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane (EDB)	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd
Hexachlorobutadiene	44	220.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321
COC 13-1326

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
LN06343	5/29/2013	5/29/2013	6/3/2013	7600 TYRONE, B28-3

Compounds	MDL (ug/kg)	PQL (ug/kg)	LN06343 Amount (ug/kg)
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Methyl iodide (Iodomethane)	20	100.0	nd
4-Methyl-2-pentanone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene (Phenylethylene)	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene (PCE)	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene (TCE)	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	103.7%
SURR: Dibromofluoromethane	80 - 120	95.0%
SURR: Toluene-d8	81 - 117	92.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentalfan

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/28/2013	5/28/2013	6/3/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Acetone	32	160.0	nd
tert-Amyl methyl ether (TAME)	23	115.0	nd
Benzene	26	130.0	nd
Bromobenzene	26	130.0	nd
Bromochloromethane	24	120.0	nd
Bromodichloromethane	22	110.0	nd
Bromoform	23	115.0	nd
Bromomethane	20	100.0	nd
Methyl ethyl ketone (MEK)	26	130.0	nd
tert-Butyl alcohol (TBA)	373	1865.0	nd
Butylbenzene	29	145.0	nd
sec-Butylbenzene	27	135.0	nd
tert-Butylbenzene	29	145.0	nd
tert-Butyl ethyl ether (ETBE)	20	100.0	nd
Carbon disulfide	116	580.0	nd
Carbon Tetrachloride	32	160.0	nd
Chlorobenzene	28	140.0	nd
Chloroethane	42	210.0	nd
2-Chloroethyl vinyl ether	23	115.0	nd
Chloroform	30	150.0	nd
Chloromethane	70	350.0	nd
2-Chlorotoluene	27	135.0	nd
4-Chlorotoluene	28	140.0	nd
Dibromochloromethane	25	125.0	nd
1,2-Dibromo-3-chloropropane	31	155.0	nd
1,2-Dibromoethane	23	115.0	nd
Dibromomethane	33	165.0	nd
1,2-Dichlorobenzene	27	135.0	nd
1,3-Dichlorobenzene	27	135.0	nd
1,4-Dichlorobenzene	33	165.0	nd
Dichlorodifluoromethane	37	185.0	nd
1,1-Dichloroethane	29	145.0	nd
1,2-Dichloroethane	22	110.0	nd
1,1-Dichloroethene	28	140.0	nd
cis-1,2-Dichloroethene	26	130.0	nd
trans-1,2-Dichloroethene	32	160.0	nd
1,2-Dichloropropane	22	110.0	nd
1,3-Dichloropropane	21	105.0	nd
2,2-Dichloropropane	38	190.0	nd
1,1-Dichloropropene	27	135.0	nd
cis-1,3-Dichloropropene	26	130.0	nd
trans-1,3-Dichloropropene	29	145.0	nd
Diisopropyl ether (DIPE)	26	130.0	nd
Ethylbenzene	30	150.0	nd

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1321

Report of GC/MS Analysis for Purgeable Volatile Organics
EPA SW-846 Method 8260

PROJECT: 7600 TYRONE

Sample Matrix: Soil

Chemistry Log No.	Date Sampled	Date Received	Date Analyzed	Sample Description
Blank	5/28/2013	5/28/2013	6/3/2013	Method Blank

Compounds	MDL ug/kg	PQL ug/kg	Blank Amount ug/kg
Hexachlorobutadiene	44	220.0	nd
2-Hexanone	21	105.0	nd
Isopropylbenzene	33	165.0	nd
p-Isopropyltoluene	28	140.0	nd
Methyl-t-butyl ether (MTBE)	23	115.0	nd
Methylene chloride	31	155.0	nd
Iodomethane	20	100.0	nd
Methyl isobutyl ketone (MIBK)	19	95.0	nd
Naphthalene	30	150.0	nd
Propylbenzene	30	150.0	nd
Styrene	33	165.0	nd
1,1,1,2-Tetrachloroethane	23	115.0	nd
1,1,2,2-Tetrachloroethane	40	200.0	nd
Tetrachloroethylene	27	135.0	nd
Toluene	25	125.0	nd
1,2,3-Trichlorobenzene	29	145.0	nd
1,2,4-Trichlorobenzene	31	155.0	nd
1,1,1-Trichloroethane	26	130.0	nd
1,1,2-Trichloroethane	23	115.0	nd
Trichloroethylene	24	120.0	nd
Trichlorofluoromethane	35	175.0	nd
1,2,3-Trichloropropane	22	110.0	nd
1,2,4-Trimethylbenzene	25	125.0	nd
1,3,5-Trimethylbenzene	28	140.0	nd
Vinyl acetate	52	260.0	nd
Vinyl Chloride (Chloroethene)	36	180.0	nd
m & p-Xylene	75	375.0	nd
o-Xylene	28	140.0	nd

MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5xMDL)

J - Concentration above MDL below PQL
nd - Not Detected; below detection limit

Quality Control Data

Surrogates 30 (ug/L each)	QC Limits % Recovery Lower-Upper	
SURR: Bromofluorobenzene	74 - 121	102.0%
SURR: Dibromofluoromethane	80 - 120	96.7%
SURR: Toluene-d8	81 - 117	92.7%

Comment:

Analyst: Bryan Tiu

Reviewed by: Rose Gentallan

200006

Project No: 7600 TYRONE (RWQCB LabForm10A;Ver12/94)

Quality Assurance Report

Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE PERFORMED: 6/3/13 ANALYTICAL METHOD: USEPA 8260
BATCH #: LN06217 LN LN06217 LN06219 LN06229 LN06231 LN06335 LN06337 LN06341 LN06343
LAB SAMPLE I.D.: LN06217 UNIT: ug/kg

ANALYTE	SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
1,1-Dichloroethene	ND	30.0	25.3	84.3	30.0	25.9	86.3	2.3 %	59-172	22%
Benzene	ND	30.0	29.9	99.7	30.0	30.5	102	2.3 %	66-142	21%
Trichloroethylene	ND	30.0	30.8	103	30.0	31.3	104	0.97 %	62-137	24%
Toluene	ND	30.0	30.6	102	30.0	31.5	105	2.9 %	59-139	21%
Chlorobenzene	ND	30.0	35.7	119	30.0	36.6	122	2.5 %	60-133	21%

Laboratory Quality Control Check Sample (LCS)

DATE PERFORMED: 6/3/13 ANALYTICAL METHOD: USEPA 8260
SUPPLY SOURCE: LAB LCS I.D.: Q8087
LOT NUMBER: UNIT: ug/kg
DATE OF SOURCE:

ANALYTE	LCS RESULT ug/kg	TRUE VALUE ug/kg	% RECOVERY	Advisory Range
1,1,2-Trichloroethane	29.9	30	99.7	70 - 130
1,2-Dichloroethane	32.1	30	107.0	70 - 130
1,4-Dichlorobenzene	31.3	30	104.3	70 - 130
Benzene	28.9	30	96.3	70 - 130
Bromoform	33	30	110.0	70 - 130
Carbon Tetrachloride	27	30	90.0	70 - 130
Tetrachloroethylene	28.2	30	94.0	70 - 130
Trichloroethylene	27.2	30	90.7	70 - 130

Analyst: B. Tiu Reviewed by: R. Gentallen

ATTACHMENT #2

METALS/MERCURY

EPA METHOD 6010B/7471

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1326

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06329	5/29/13	5/29/13	6/5/13	7600 TYRONE, B23-1
LN06331	5/29/13	5/29/13	6/5/13	7600 TYRONE, B23-3
LN06335	5/29/13	5/29/13	6/5/13	7600 TYRONE, B27-1
LN06337	5/29/13	5/29/13	6/5/13	7600 TYRONE, B27-3
LN06338	5/29/13	5/29/13	6/5/13	7600 TYRONE, B24-1
LN06340	5/29/13	5/29/13	6/5/13	7600 TYRONE, B24-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06329 mg/kg	LN06331 mg/kg	LN06335 mg/kg	LN06337 mg/kg	LN06338 mg/kg	LN06340 mg/kg
Antimony	500	15	6010B	1.0	5.0	1	3.3J	4.0J	2.7J	3.8J	3.3J	4.2J
Arsenic	500	5	6010B	2.6	13.0	1	ND	ND	ND	ND	ND	ND
Barium	10000	100	6010B	3.7	18.5	1	218	300	190	256	205	296
Beryllium	75	0.75	6010B	0.7	3.50	1	ND	ND	ND	ND	ND	ND
Cadmium	100	1	6010B	0.6	3.0	1	3.3	4.0	3.1	3.6	3.2	4.1
Chromium (T)	500	5	6010B	1.4	7.0	1	20	23	18	23	19	23
Cobalt	8000	80	6010B	1.0	5.0	1	15	20	14	18	16	21
Copper	2500	25	6010B	1.6	8.0	1	21	22	14	20	18	22
Lead	1000	5	6010B	0.9	4.5	1	39	15	12	14	42	15
Molybdenum	3500	350	6010B	0.3	1.5	1	ND	ND	0.5J	ND	ND	ND
Nickel	2000	20	6010B	0.6	3.0	1	20	24	20	23	20	24
Selenium	100	1	6010B	1.6	8.0	1	ND	ND	ND	ND	ND	ND
Silver	500	5	6010B	1.5	7.5	1	ND	ND	ND	ND	ND	ND
Thallium	700	7	6010B	1.0	5.0	1	ND	ND	ND	ND	ND	ND
Vanadium	2400	24	6010B	1.8	9.00	1	31	38	30	35	30	37
Zinc	5000	250	6010B	1.9	9.50	1	124	79	59	74	93	78
Mercury	20	0.2	7471	0.00002	0.0001	1	0.0480	0.0210	0.0200	0.0200	0.0240	0.0230

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: KC/YC

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1326

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06341	5/29/13	5/29/13	6/5/13	7600 TYRONE, B28-1
LN06343	5/29/13	5/29/13	6/5/13	7600 TYRONE, B28-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06341 mg/kg	LN06343 mg/kg
Antimony	500	15	6010B	1.0	5.0	1	2.0J	4.0J
Arsenic	500	5	6010B	2.6	13.0	1	ND	ND
Barium	10000	100	6010B	3.7	18.5	1	99	263
Beryllium	75	0.75	6010B	0.7	3.50	1	ND	ND
Cadmium	100	1	6010B	0.6	3.0	1	1.8J	3.7
Chromium (T)	500	5	6010B	1.4	7.0	1	10	22
Cobalt	8000	80	6010B	1.0	5.0	1	7.8	19
Copper	2500	25	6010B	1.6	8.0	1	7.7J	21
Lead	1000	5	6010B	0.9	4.5	1	6.7	18
Molybdenum	3500	350	6010B	0.3	1.5	1	0.44J	ND
Nickel	2000	20	6010B	0.6	3.0	1	12.3	22
Selenium	100	1	6010B	1.6	8.0	1	ND	ND
Silver	500	5	6010B	1.5	7.5	1	ND	ND
Thallium	700	7	6010B	1.0	5.0	1	ND	ND
Vanadium	2400	24	6010B	1.8	9.0	1	19	35
Zinc	5000	250	6010B	1.9	9.5	1	36	78
Mercury	20	0.2	7471	0.00002	0.0001	1	0.0093	0.0190

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: KC/YC

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1326

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06337 Dup	05/29/13	5/29/13	6/5/13	7600 TYRONE, B27-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	Dup LN06337 (mg/kg)
Antimony	500	15	6010B	1.0	5.0	1	3.8J
Arsenic	500	5	6010B	2.6	13.0	1	ND
Barium	10000	100	6010B	3.7	18.5	1	249
Beryllium	75	0.75	6010B	0.7	3.50	1	ND
Cadmium	100	1	6010B	0.6	3.0	1	3.5
Chromium (T)	2500	5	6010B	1.4	7.0	1	21
Cobalt	8000	80	6010B	1.0	5.0	1	17
Copper	2500	25	6010B	1.6	8.0	1	19
Lead	1000	5	6010B	0.9	4.5	1	14
Molybdenum	3500	350	6010B	0.3	1.5	1	ND
Nickel	2000	20	6010B	0.6	3.0	1	22
Selenium	100	1	6010B	1.6	8.0	1	ND
Silver	500	5	6010B	1.5	7.5	1	ND
Thallium	700	7	6010B	1.0	5.0	1	ND
Vanadium	2400	24	6010B	1.8	9.0	1	34
Zinc	5000	250	6010B	1.9	9.5	1	71

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
R.L. - Report Limit
D. F. - Dilution Factor

** - exceed TTLC limit
* - exceed 10x STLC limit
J - concentration above MDL and below RL

Analyst: KC

ENVIRONMENTAL LABORATORY DATA REPORT

COC 13-1326

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA Method 6010B

Sample Matrix: SOIL

PROJECT: 7600 TYRONE

LABORATORY	DATE	DATE	DATE									
LOG NO.	SAMPLED	RECEIVED	ANALYZED				SAMPLE DESCRIPTION					
LN06317	5/29/13	5/29/13	6/4/13			7600 TYRONE, B17-1						
LN06319	5/30/13	5/30/13	6/4/13			7600 TYRONE, B17-3						
LN06320	5/31/13	5/31/13	6/4/13			7600 TYRONE, B13-1						
LN06322	6/1/13	6/1/13	6/4/13			7600 TYRONE, B13-3						
LN06323	6/2/13	6/2/13	6/4/13			7600 TYRONE, B15-1						
LN06325	6/2/13	6/2/13	6/4/13			7600 TYRONE, B15-3						
	LIMIT	LIMIT										
	TTLC	STLC					LN06317	LN06319	LN06320	LN06322	LN06323	LN06325
METAL	(mg/kg)	(mg/l)	METHOD	MDL	RL	D. F.	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Arsenic	500	5	6010B	2.6	13.0	100	ND	ND	ND	ND	ND	ND

LABORATORY	DATE	DATE	DATE									
LOG NO.	SAMPLED	RECEIVED	ANALYZED				SAMPLE DESCRIPTION					
LN06326	5/29/13	5/29/13	6/4/13			7600 TYRONE, B16-1						
LN06328	5/30/13	5/30/13	6/4/13			7600 TYRONE, B16-3						
LN06332	5/31/13	5/31/13	6/4/13			7600 TYRONE, B14-1						
LN06334	6/1/13	6/1/13	6/4/13			7600 TYRONE, B14-3						
	LIMIT	LIMIT										
	TTLC	STLC					LN06326	LN06328	LN06332	LN06334		
METAL	(mg/kg)	(mg/l)	METHOD	MDL	RL	D. F.	mg/Kg	mg/Kg	mg/Kg	mg/Kg		
Arsenic	500	5	6010B	2.6	13.0	100	ND	ND	ND	ND		

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analayst: YC

ENVIRONMENTAL LABORATORY DATA REPORT

13-1326

ANALYTICAL RESULT FOR METALS

TTLC (Total Threshold Limit Concentration)

EPA METHOD 6010B

Sample Matrix: Soil

PROJECT: 7600 TYRONE

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE ANALYZED	SAMPLE DESCRIPTION
LN06314	5/31/13	5/31/13	6/4/13	7600 TYRONE, B14-1
LN06316	6/1/13	6/1/13	6/4/13	7600 TYRONE, B14-3

METAL	LIMIT TTLC (mg/kg)	LIMIT STLC (mg/l)	METHOD	MDL	RL	D. F.	LN06314 mg/Kg	LN06316 mg/Kg				
Lead	1000	5	6010B	0.9	4.5	100	27.0	15.0				

ND - Not Detected; below method detection limit

MDL - Method Detection Limit

R.L. - Report Limit

D. F. - Dilution Factor

** - exceed TTLC limit

* - exceed 10x STLC limit

J - concentration above MDL and below RL

Analyst: YC

PROJECT: 7600 TYRONE

COC 13-1326

QA/QC Report

I. Blank Spike (BS) / Blank Spike Duplicate (BSD)

DATE ANALYZED: 06/05/13 ANALYTICAL METHOD USEPA 6010/7000

BATCH #: $TTLCS-7753 (LN06329 LN06331 LN06337 LN06338 LN06340 LN06341 LN06343)

LAB SAMPLE I.D.: BLANK SOIL UNIT: (Circle One) (mg/kg) mg/L

METAL	SAMPLE RESULT	SPIKE CONC	BS	%BS	(DUP) SPIKE CONC	BSD	%BSD	RPD	BS/BSD % REC. LIMIT	RPD LIMIT
Antimony	ND	200	153	76.5	200	147	73.5	4.0%	14 - 89	< 30
Arsenic	ND	200	203	102	200	203	102	0.0%	70 - 130	< 30
Barium	---	---	---	---	---	---	---	---	---	---
Beryllium	ND	200	189	94.5	200	191	95.5	1.1%	70 - 130	< 30
Cadmium	ND	200	196	98.0	200	194	97.0	1.0%	70 - 130	< 30
Chromium (T)	ND	200	193	96.5	200	196	98.0	1.5%	70 - 130	< 30
Cobalt	ND	200	206	103	200	203	102	1.0%	70 - 130	< 30
Copper	ND	200	190	95.0	200	195	97.5	2.6%	70 - 130	< 30
Lead	ND	200	199	99.5	200	199	99.5	0.0%	70 - 130	< 30
Molybdenum	ND	200	201	100	200	196	98.0	2.0%	70 - 130	< 30
Nickel	ND	200	197	98.5	200	199	99.5	1.0%	70 - 130	< 30
Selenium	ND	200	191	95.5	200	192	96.0	0.5%	70 - 130	< 30
Silver	---	---	---	---	---	---	---	---	---	---
Thallium	ND	200	171	85.5	200	174	87.0	1.7%	70 - 130	< 30
Vanadium	ND	200	199	99.5	200	202	101	1.5%	70 - 130	< 30
Zinc	ND	200	200	100	200	200	100	0.0%	70 - 130	< 30

BS = Blank Spike BSD = Blank Spike Duplicate RPD = Relative Percent Difference
%BS = Percent Recovery of Blank Spike %BSD = Percent Recovery of Blank Spike Duplicate

Analyst: KC

PROJECT: 7600 TYRONE **COC 13-1326**

QA/QC Report

II. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

DATE ANALYZED: 06/06/13 ANALYTICAL METHOD USEPA 6010/7000

BATCH #: $TTLCS-7753 (LN06329 LN06331 LN06337 LN06338 LN06340 LN06341 LN06343)

LAB SAMPLE I.D.: LN06337 UNIT: (Circle One) (mg/kg) mg/L

METAL	SAMPLE RESULT	SPIKE CONC	MS	%MS	(DUP) SPIKE CONC	MSD	%MSD	RPD	MS/MSD % REC. LIMIT	RPD LIMIT
Antimony	3.8	200	49	22.6	200	39	17.6	24.9%	14 - 89	< 30
Arsenic	ND	200	188	94.0	200	178	89.0	5.5%	70 - 130	< 30
Barium	---	---	---	---	---	---	---	---	---	---
Beryllium	ND	200	180	90.0	200	186	93.0	3.3%	70 - 130	< 30
Cadmium	3.6	200	174	85.2	200	172	84.2	1.2%	70 - 130	< 30
Chromium (T)	23	200	194	85.5	200	203	90.0	5.1%	70 - 130	< 30
Cobalt	18	200	193	87.5	200	193	87.5	0.0%	70 - 130	< 30
Copper	20	200	198	89.0	200	210	95.0	6.5%	70 - 130	< 30
Lead	14	200	175	80.5	200	176	81.0	0.6%	70 - 130	< 30
Molybdenum	ND	200	173	86.5	200	170	85.0	1.7%	70 - 130	< 30
Nickel	23	200	198	87.5	200	208	92.5	5.6%	70 - 130	< 30
Selenium	ND	200	179	89.5	200	178	89.0	0.6%	70 - 130	< 30
Silver	---	---	---	---	---	---	---	---	---	---
Thallium	ND	200	139	69.5	200	138	69.0	0.7%	70 - 130	< 30
Vanadium	35	200	212	88.5	200	226	95.5	7.6%	70 - 130	< 30
Zinc	74	200	247	86.5	200	260	93.0	7.2%	70 - 130	< 30

MS = Matrix Spike MSD = Matrix Spike Duplicate RPD = Relative Percent Difference
%MS = Percent Recovery of Matrix Spike %MSD = Percent Recovery of Matrix Spike Duplicate

Analyst: KC

PROJECT: 7600 TYRONE **COC 13-1326**

III. Calibration and Laboratory Quality Control Check Sample (LCS)

DATE ANALYZED: 06/05/13 ANALYTICAL USEPA 6010/7000

SUPPLY SOURCE: VHG LAB LCS I.D.: Q8732

LOT NUMBER: 201-0040 UNIT: (Circle One) (mg/kg) mg/L

METAL	LCS RESULTS mg/kg	TRUE VALUE mg/kg	% Recovery	Acceptable Range % Recovery
Antimony	68	80	85.0	48 - 84
Arsenic	420	400	105	70 - 130
Barium	387	400	96.8	70 - 130
Beryllium	10	12.5	80.0	70 - 130
Cadmium	11	12.5	88.0	70 - 130
Chromium (T)	79	80	98.8	70 - 130
Cobalt	43	50	86.0	70 - 130
Copper	81	80	101	70 - 130
Lead	85	80	106	70 - 130
Molybdenum	---	---	---	---
Nickel	82	80	102	70 - 130
Selenium	197	200	98.5	70 - 130
Silver	10.1	12.5	80.8	70 - 130
Thallium	70	80	87.5	70 - 130
Vanadium	89	80	111	70 - 130
Zinc	203	200	102	70 - 130

Analyst: KC

Reviewed by: JNC 6/21/13

ATTACHMENT #3

TOTAL EXTRACTABLE PETROLEUM
HYDROCARBONS (TEPH)
MOTOR OIL (MO)
DIESEL RANGE ORGANIC (DRO)

EPA METHOD 8015M

COC No. 13-1326

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN06329	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B23-1	GC Agilent	053113
LN06331	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B23-3	GC Agilent	053113
LN06335	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B27-1	GC Agilent	053113
LN06337	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B27-3	GC Agilent	053113
LN06338	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B24-1	GC Agilent	053113
LN06340	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B24-3	GC Agilent	053113
LN06341	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B28-1	GC Agilent	053113

	MDL / PQL mg/kg	MB mg/kg	LN06329 mg/kg	LN06331 mg/kg	LN06335 mg/kg	LN06337 mg/kg	LN06338 mg/kg	LN06340 mg/kg	LN06341 mg/kg
Dilution Factor		1	1	1	1	1	1	1	1
TEPH (C9 - C36)	4 / 20	ND	ND	4.2 J	4.0 J	13.1 J	60.6	4.4 J	ND
DRO (C10 - C28)	29 / 145	ND	ND	ND	ND	ND	ND	ND	ND
MOTOR OIL	35 / 175	ND	ND	ND	ND	ND	60.6 J	ND	ND
Quality Control Data		MB							
Surrogate/Internal Std.	% ACP	% RC	% RC	% RC	% RC	% RC	% RC	% RC	% RC
1-Chlorooctadecane	(60 - 140)	90.5%	96.5%	96.0%	106%	94.0%	100%	96.5%	80.0%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1326

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015M
TEPH (Total Extractable Petroleum Hydrocarbons, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN06343	05/29/13	05/29/13	05/31/13	05/31/13	7600 TYRONE, B28-3	GC Agilent	053113

	MDL / PQL mg/kg		LN06343 mg/kg
Dilution Factor			1
TEPH (C9 - C36)	4 / 20		ND
DRO (C10 - C28)	29 / 145		ND
MOTOR OIL	35 / 175		ND
Quality Control Data			
Surrogate/Internal Std.	% ACP		% RC
1-Chlorooctadecane	(60 - 140)		107%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1326

ENVIRONMENTAL LABORATORY

QA/QC REPORT
TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL

Project: 7600 TYRONE

I. Sample Duplicate

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INST. ID	RUN BATCH
LN06216 DUP	05/28/13	05/28/13	05/31/13	05/31/13	7600 TYRONE, B22-3	GC Agilent	053113

	MDL / PQL mg/kg		LN06216 DUP mg/kg
Dilution Factor			1
TEPH (C9 - C36)	4 / 20		ND
DRO (C10 - C28)	29 / 145		ND
MOTOR OIL	35 / 175		ND
Quality Control Data			
Surrogate/Internal Std.	% ACP		% RC
1-Chlorooctadecane	(60 - 140)		88.5%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - above MDL but below PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

*High recovery caused by overlap with TEPH peaks.

COC No. 13-1326

ENVIRONMENTAL LABORATORY

QA/QC REPORT

TEPH (Total Extractable Petroleum Hydrocarbon, C9 - C36)

Sample Matrix: SOIL
Project: 7600 TYRONE

II. Laboratory Quality Control Check Sample (LCS)

LCS Log No.: Q8245 (TEPH), Q8709 (DRO), Q8278 (MO)

Unit: mg/kg

ANALYTE		RUN BATCH	DATE ANALYZED	SPIKE CONC.	RESULT	%REC.	Acceptable Range
TEPH		053113	5/31/2013	280	209	74.6	70 - 130
DRO		053113	5/31/2013	500	379	75.8	70 - 130
MO		053113	5/31/2013	500	436	87.2	70 - 130

Analysts J. Yi

Reviewed by R. Gentallan
6/4/13

ATTACHMENT #4

GASOLINE RANGE ORGANICS (GRO)

EPA METHOD 8015B

COC No. 13-1326

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR. ID	RUN LOG/BATCH
LN06329	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B23-1	AG gas	20130530
LN06331	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B23-3	AG gas	20130530
LN06335	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B27-1	AG gas	20130530
LN06337	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B27-3	AG gas	20130530
LN06338	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B24-1	AG gas	20130530
LN06340	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B24-3	AG gas	20130530
LN06341	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B28-1	AG gas	20130530

	MDL / PQL mg/kg	MB mg/kg	LN06329 mg/kg	LN06331 mg/kg	LN06335 mg/kg	LN06337 mg/kg	LN06338 mg/kg	LN06340 mg/kg	LN06341 mg/kg
Dilution Factor	1	1	1	1	1	1	4**	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND	ND	ND	ND	ND	ND	ND
Quality Control Data									
Surrogate/Internal Std.	% ACP	% RC	%RC	%RC	%RC	%RC	%RC	%RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	109%	107%	108%	108%	108%	107%	108%	108%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

** *Sample was analyzed at higher dilution : Sample extract was either exhibiting high turbidity or highly colored*
MDL/PQL at higher dilution is calculted as MDL/PQL (dilution x1) multipied by the dilution factor

COC No. 13-1326

ENVIRONMENTAL LABORATORY

ANALYTICAL TEST RESULT FOR EPA 8015B
GRO (Gasoline Range Organics)

Sample Matrix: SOIL

Project: 7600 TYRONE

SAMPLE LOG NO	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTED	DATE ANALYZED	SAMPLE DESCRIPTION	INSTR ID	RUN LOG/BATCH
LN06343	05/29/13	05/29/13	05/29/13	05/30/13	7600 TYRONE, B28-3	AG gas	20130530

	MDL / PQL mg/kg	MB mg/kg	LN06343 mg/kg
Dilution Factor	1	1	1
Gasoline (GRO)	1.1 / 5.5	ND	ND

Quality Control Data

Surrogate/Internal Std.	% ACP	% RC	%RC
1, 2 Dichlorobenzene-d4	(70 - 130)	109%	108%

ND - Not Detected; below method detection limit
MDL - Method Detection Limit
PQL - Practical Quantitation Limit (5 x MDL)
J - Geater than MDL, but less than PQL

ACP % = Acceptable Range of Percent
% RC = % Recovery
MB - Method Blank

ENVIRONMENTAL LABORATORY

QA/QC REPORT
GRO (Gasoline Range Organics)

Sample Matrix: SOIL
Project: 7600 TYRONE

I. Matrix Spike (MS) / Matrix Spike Duplicate (MSD)
Reporting Unit: mg/kg

SAMPLE	BATCH	SAMPLE	SPIKE						MS/MSD	RPD
LOG NO.	QC	CONC	CONC	MS	% MS	MSD	% MSD	RPD	% ACP	ACP
LN06205	20130530	ND	22.0	22.4	102%	22.9	104%	2.2%	70-130	30

SPIKE CONC = Spiking Concentration;
MS = Matrix Spike
MSD = Matrix Spike Duplicate
% MS = Percent Recovery of MS
% MSD = Percent Recovery of MSD
RPD = Relative Percent Difference
ACP = Acceptable Range of Percent

II. Laboratory Quality Control Check Sample (LCS)
LCS Log No. Q8637

ANALYTE	BATCH QC	DATE ANALYZED	SPIKE CONC.	RESULT	% REC.	Acceptable Range
Gasoline	20130530	5/30/2013	22.0	20.9	95.0	70 - 130

Analyzed by *B. Estrada*
Reviewed by *R. Gentallan* 6/4/13

ATTACHMENT #5

POLYCHLORINATED BIPHENYLS (PCBs)

EPA Method 8082

ENVIRONMENTAL LABORATORY DATA REPORT

ANALYTICAL RESULT FOR PCBs by EPA600/SR-94/112/8082
(Polychlorinated Biphenyls)
Sample Matrix: Soil (Low Level)

LABORATORY LOG NO.	DATE SAMPLED	DATE RECEIVED	DATE EXTRACTECD	DATE ANALYZED	SAMPLE DESCRIPTION
LN06329	5/29/2013	5/29/2013	5/30/2013	5/31/2013	
LN06331	5/29/2013	5/29/2013	5/30/2013	5/31/2013	
LN06335	5/29/2013	5/29/2013	5/30/2013	5/31/2013	
LN06337	5/29/2013	5/29/2013	5/30/2013	5/31/2013	
LN06341	5/29/2013	5/29/2013	5/30/2013	6/4/2013	
LN06343	5/29/2013	5/29/2013	5/30/2013	6/4/2013	

PARAMETERS	MDL/PQL (mg/kg)	LN06329 (mg/kg)	LN06331 (mg/kg)	LN06335 (mg/kg)	LN06337 (mg/kg)	LN06341 (mg/kg)	LN06343 (mg/kg)
PCB - 1221	0.07/0.2	ND	ND	ND	ND	ND	ND
PCB - 1232	0.07/0.2	ND	ND	ND	ND	ND	ND
PCB - 1242	0.07/0.2	ND	ND	ND	ND	ND	ND
PCB - 1248	0.07/0.2	ND	ND	ND	ND	ND	ND
PCB - 1254	0.07/0.2	ND	ND	ND	ND	ND	ND
PCB - 1260	0.07/0.2	ND	ND	ND	ND	ND	ND
SURROGATE PARAMETERS	QC LIMIT %	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery	% Recovery
DECACHLOROBIPHENYL	70 - 130	99	94	102	106	95	93

MDL - Method Detection Limit

ND - Not Detected; below method detection limit

Analyst: D. Wong

Reviewed by: 6/4/13

Project Name : Tyrone Property, 7600 Tyrone Ave., Van Nuys, CA

QA/QC Report

I. Matrix Spike (MS)/Matrix Spike Duplicate (MSD)

ANALYTICAL METHOD: USEPA 600/SR-94/112
USEPA 8082

DATE ANALYZED: 06/04/13
BATCH #: 53013
LAB SAMPLE I.D.: LN06364 UNIT: mg/kg

PARAMETERS	SAMPLE RESULT	SPIKE CONC	MS	%MS	(DUP) SPIKE CONC	MSD	%MSD	RPD	MS/MSD % REC. LIMIT	% RPD LIMIT
PCB-1242	0.0	25.0	20.8	83	25.0	20.3	81	2%	70 - 130	30
PCB-1260	0.0	25.0	NR	NR	25.0	NR	NR	NR	70 - 130	30

NR = Not reported dut to matrix interference.

MS - Matrix Spike *MSD - Matrix Spike Dupllicate* *RPD - Relative Percent Difference*
%MS - Percent Recovery of Matrix Spike *%MSD - Percent Recovery of Matrix Spike Duplicate*

Reviewed by: 6/4/13

Project Name : Tyrone Property, 7600 Tyrone Ave., Van Nuys, CA

II. Laboratory Control Check Sample (LCS)

DATE ANALYZED: 06/04/13 ANALYTICAL METHOD: USEPA 600/SR-94/112

BATCH No. 053013 UNIT: mg/kg USEPA 8082

		LCS1		LCS2		
PARAMETERS	TRUE CONC	RESULT	% RC	RESULT	% RC	ACCEPTANCE LIMITS (%)
PCB - 1242	25.0	19.6	78	NA	NA	80 - 120
PCB - 1260	25.0	21.9	88	NA	NA	80 - 120

Note: Low LCS recovery for 1242 (78%). Although LCS is 2% below acceptance limit, it should have no significant effect on the quality of this batch of analyses.

%RC - Percent Recovery
NA - Not Analyzed
Batch - ten samples per batch

Reviewed by: RB 6/4/13

ATTACHMENT #6

PESTICIDES

EPA METHOD 8081

CERTIFICATE OF ANALYSIS

Client: LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles, CA 90012

Attention: Kevin Han
Phone: 213-367-7267
Fax: (213) 367-7285

Report Date:	06/13/13 15:54
Received Date:	05/30/13 09:50
Turn Around:	5 workdays
Work Order #:	3E30013
	47055-2, COC #13-1321,26
Client Project:	7600 Tyrone Ave,COC #13-1321,26, WO#

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Kevin Han :

Enclosed are the results of analyses for samples received 05/30/13 09:50 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Kim G Tu
Project Manager

700001

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
LN06208	Client		3E30013-01	Solid	05/28/13 08:10
LN06210	Client		3E30013-02	Solid	05/28/13 08:14
LN06232	Client		3E30013-03	Solid	05/28/13 09:50
LN06234	Client		3E30013-04	Solid	05/28/13 09:54
LN06250	Client		3E30013-05	Solid	05/28/13 10:50
LN06252	Client		3E30013-06	Solid	05/28/13 10:54
LN06320	Client		3E30013-07	Solid	05/29/13 07:45
LN06322	Client		3E30013-08	Solid	05/29/13 07:49
LN06323	Client		3E30013-09	Solid	05/29/13 08:00
LN06325	Client		3E30013-10	Solid	05/29/13 08:04
LN06326	Client		3E30013-11	Solid	05/29/13 08:10
LN06328	Client		3E30013-12	Solid	05/29/13 08:14
LN06332	Client		3E30013-13	Solid	05/29/13 08:40
LN06334	Client		3E30013-14	Solid	05/29/13 08:44
LN06341	Client		3E30013-15	Solid	05/29/13 09:30
LN06343	Client		3E30013-16	Solid	05/29/13 09:34

ANALYSES

Chlorinated Pesticides and/or PCBs

700002

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-01 **LN06208**

Sampled: 05/28/13 08:10 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 17:02 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	23	23	23	ug/kg	1	
2,4'-DDE	ND	23	23	23	ug/kg	1	
2,4'-DDT	ND	23	23	23	ug/kg	1	
4,4'-DDD	ND	4.5	23	23	ug/kg	1	
4,4'-DDE	ND	7.2	23	23	ug/kg	1	
4,4'-DDT	ND	5.1	23	23	ug/kg	1	
Aldrin	ND	11	23	23	ug/kg	1	
alpha-BHC	ND	14	23	23	ug/kg	1	
alpha-Chlordane	ND	12	23	23	ug/kg	1	
beta-BHC	ND	7.3	23	23	ug/kg	1	
Chlordane (tech)	ND	95	470	470	ug/kg	1	
cis-Nonachlor	ND	23	23	23	ug/kg	1	
DCPA	ND	23	23	23	ug/kg	1	
delta-BHC	ND	5.3	23	23	ug/kg	1	
Dieldrin	ND	7.0	23	23	ug/kg	1	
Endosulfan I	ND	5.3	23	23	ug/kg	1	
Endosulfan II	ND	3.0	23	23	ug/kg	1	
Endosulfan sulfate	ND	5.1	23	23	ug/kg	1	
Endrin	ND	12	23	23	ug/kg	1	
Endrin aldehyde	ND	6.5	23	23	ug/kg	1	
Endrin ketone	ND	4.3	23	23	ug/kg	1	
gamma-BHC (Lindane)	ND	12	23	23	ug/kg	1	
gamma-Chlordane	ND	9.3	23	23	ug/kg	1	
Heptachlor	ND	13	23	23	ug/kg	1	
Heptachlor epoxide	ND	8.5	23	23	ug/kg	1	
Kepone	ND	200	470	470	ug/kg	1	
Methoxychlor	ND	5.1	23	23	ug/kg	1	
Mirex	ND	7.3	23	23	ug/kg	1	
Oxychlordane	ND	23	23	23	ug/kg	1	
Toxaphene	ND	80	700	700	ug/kg	1	
trans-Nonachlor	ND	23	23	23	ug/kg	1	
Surr: Decachlorobiphenyl	*68 %*	Conc:*158*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*63 %*	Conc:*145*		*18-112*	%		

700003

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-02 LN06210

Sampled: 05/28/13 08:14 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 17:30 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	ND	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.7	24	24	ug/kg	1	
4,4'-DDE	ND	7.5	24	24	ug/kg	1	
4,4'-DDT	ND	5.4	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	13	24	24	ug/kg	1	
beta-BHC	ND	7.7	24	24	ug/kg	1	
Chlordane (tech)	ND	100	490	490	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.6	24	24	ug/kg	1	
Dieldrin	ND	7.3	24	24	ug/kg	1	
Endosulfan I	ND	5.6	24	24	ug/kg	1	
Endosulfan II	ND	3.1	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.4	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.8	24	24	ug/kg	1	
Endrin ketone	ND	4.5	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	13	24	24	ug/kg	1	
gamma-Chlordane	ND	9.8	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.9	24	24	ug/kg	1	
Kepone	ND	210	490	490	ug/kg	1	
Methoxychlor	ND	5.4	24	24	ug/kg	1	
Mirex	ND	7.6	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	ND	84	730	730	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*61 %*	Conc:*148*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*67 %*	Conc:*162*		*18-112*	%		

700004

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-03 **LN06232**

Sampled: 05/28/13 09:50 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 17:58 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	21	21	21	ug/kg	1	
2,4'-DDE	ND	21	21	21	ug/kg	1	
2,4'-DDT	ND	21	21	21	ug/kg	1	
4,4'-DDD	ND	4.1	21	21	ug/kg	1	
4,4'-DDE	ND	6.5	21	21	ug/kg	1	
4,4'-DDT	ND	4.6	21	21	ug/kg	1	
Aldrin	ND	9.8	21	21	ug/kg	1	
alpha-BHC	ND	12	21	21	ug/kg	1	
alpha-Chlordane	ND	11	21	21	ug/kg	1	
beta-BHC	ND	6.7	21	21	ug/kg	1	
Chlordane (tech)	ND	86	420	420	ug/kg	1	
cis-Nonachlor	ND	21	21	21	ug/kg	1	
DCPA	ND	21	21	21	ug/kg	1	
delta-BHC	ND	4.8	21	21	ug/kg	1	
Dieldrin	ND	6.3	21	21	ug/kg	1	
Endosulfan I	ND	4.8	21	21	ug/kg	1	
Endosulfan II	ND	2.7	21	21	ug/kg	1	
Endosulfan sulfate	ND	4.6	21	21	ug/kg	1	
Endrin	ND	11	21	21	ug/kg	1	
Endrin aldehyde	ND	5.9	21	21	ug/kg	1	
Endrin ketone	ND	3.9	21	21	ug/kg	1	
gamma-BHC (Lindane)	ND	11	21	21	ug/kg	1	
gamma-Chlordane	ND	8.4	21	21	ug/kg	1	
Heptachlor	ND	11	21	21	ug/kg	1	
Heptachlor epoxide	ND	7.7	21	21	ug/kg	1	
Kepone	ND	190	420	420	ug/kg	1	
Methoxychlor	ND	4.6	21	21	ug/kg	1	
Mirex	ND	6.6	21	21	ug/kg	1	
Oxychlordane	ND	21	21	21	ug/kg	1	
Toxaphene	ND	72	630	630	ug/kg	1	
trans-Nonachlor	ND	21	21	21	ug/kg	1	
Surr: Decachlorobiphenyl	*64 %*	Conc:*135*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*77 %*	Conc:*163*		*18-112*	%		

700005

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-04 LN06234

Sampled: 05/28/13 09:54 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 18:26 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	ND	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.6	24	24	ug/kg	1	
4,4'-DDE	ND	7.4	24	24	ug/kg	1	
4,4'-DDT	ND	5.3	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	12	24	24	ug/kg	1	
beta-BHC	ND	7.6	24	24	ug/kg	1	
Chlordane (tech)	ND	98	480	480	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.5	24	24	ug/kg	1	
Dieldrin	ND	7.2	24	24	ug/kg	1	
Endosulfan I	ND	5.5	24	24	ug/kg	1	
Endosulfan II	ND	3.1	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.3	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.7	24	24	ug/kg	1	
Endrin ketone	ND	4.4	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	13	24	24	ug/kg	1	
gamma-Chlordane	ND	9.6	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.7	24	24	ug/kg	1	
Kepone	ND	210	480	480	ug/kg	1	
Methoxychlor	ND	5.3	24	24	ug/kg	1	
Mirex	ND	7.5	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	ND	82	720	720	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*59 %*	Conc:*141*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*67 %*	Conc:*161*		*18-112*	%		

700006

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-05 LN06250

Sampled: 05/28/13 10:50 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 18:55 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	23	23	23	ug/kg	1	
2,4'-DDE	ND	23	23	23	ug/kg	1	
2,4'-DDT	ND	23	23	23	ug/kg	1	
4,4'-DDD	ND	4.4	23	23	ug/kg	1	
4,4'-DDE	ND	7.1	23	23	ug/kg	1	
4,4'-DDT	ND	5.0	23	23	ug/kg	1	
Aldrin	ND	11	23	23	ug/kg	1	
alpha-BHC	ND	13	23	23	ug/kg	1	
alpha-Chlordane	ND	12	23	23	ug/kg	1	
beta-BHC	ND	7.2	23	23	ug/kg	1	
Chlordane (tech)	ND	94	460	460	ug/kg	1	
cis-Nonachlor	ND	23	23	23	ug/kg	1	
DCPA	ND	23	23	23	ug/kg	1	
delta-BHC	ND	5.2	23	23	ug/kg	1	
Dieldrin	ND	6.9	23	23	ug/kg	1	
Endosulfan I	ND	5.2	23	23	ug/kg	1	
Endosulfan II	ND	2.9	23	23	ug/kg	1	
Endosulfan sulfate	ND	5.0	23	23	ug/kg	1	
Endrin	ND	12	23	23	ug/kg	1	
Endrin aldehyde	ND	6.4	23	23	ug/kg	1	
Endrin ketone	ND	4.2	23	23	ug/kg	1	
gamma-BHC (Lindane)	ND	12	23	23	ug/kg	1	
gamma-Chlordane	ND	9.2	23	23	ug/kg	1	
Heptachlor	ND	12	23	23	ug/kg	1	
Heptachlor epoxide	ND	8.3	23	23	ug/kg	1	
Kepone	ND	200	460	460	ug/kg	1	
Methoxychlor	ND	5.0	23	23	ug/kg	1	
Mirex	ND	7.2	23	23	ug/kg	1	
Oxychlordane	ND	23	23	23	ug/kg	1	
Toxaphene	ND	79	690	690	ug/kg	1	
trans-Nonachlor	ND	23	23	23	ug/kg	1	
Surr: Decachlorobiphenyl	*64 %*	Conc:*146*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*65 %*	Conc:*148*		*18-112*	%		

700007

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-06 **LN06252**

Sampled: 05/28/13 10:54 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 19:23 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	23	23	23	ug/kg	1	
2,4'-DDE	ND	23	23	23	ug/kg	1	
2,4'-DDT	ND	23	23	23	ug/kg	1	
4,4'-DDD	ND	4.4	23	23	ug/kg	1	
4,4'-DDE	ND	7.1	23	23	ug/kg	1	
4,4'-DDT	ND	5.1	23	23	ug/kg	1	
Aldrin	ND	11	23	23	ug/kg	1	
alpha-BHC	ND	13	23	23	ug/kg	1	
alpha-Chlordane	ND	12	23	23	ug/kg	1	
beta-BHC	ND	7.3	23	23	ug/kg	1	
Chlordane (tech)	ND	94	460	460	ug/kg	1	
cis-Nonachlor	ND	23	23	23	ug/kg	1	
DCPA	ND	23	23	23	ug/kg	1	
delta-BHC	ND	5.3	23	23	ug/kg	1	
Dieldrin	ND	6.9	23	23	ug/kg	1	
Endosulfan I	ND	5.3	23	23	ug/kg	1	
Endosulfan II	ND	2.9	23	23	ug/kg	1	
Endosulfan sulfate	ND	5.1	23	23	ug/kg	1	
Endrin	ND	12	23	23	ug/kg	1	
Endrin aldehyde	ND	6.5	23	23	ug/kg	1	
Endrin ketone	ND	4.2	23	23	ug/kg	1	
gamma-BHC (Lindane)	ND	12	23	23	ug/kg	1	
gamma-Chlordane	ND	9.2	23	23	ug/kg	1	
Heptachlor	ND	13	23	23	ug/kg	1	
Heptachlor epoxide	ND	8.4	23	23	ug/kg	1	
Kepone	ND	200	460	460	ug/kg	1	
Methoxychlor	ND	5.1	23	23	ug/kg	1	
Mirex	ND	7.2	23	23	ug/kg	1	
Oxychlordane	ND	23	23	23	ug/kg	1	
Toxaphene	ND	79	690	690	ug/kg	1	
trans-Nonachlor	ND	23	23	23	ug/kg	1	
Surr: Decachlorobiphenyl	*63 %*	Conc:*146*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*64 %*	Conc:*147*		*18-112*	%		

700008

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-07 LN06320

Sampled: 05/29/13 07:45 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 19:51 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	21	21	21	ug/kg	1	
2,4'-DDE	ND	21	21	21	ug/kg	1	
2,4'-DDT	ND	21	21	21	ug/kg	1	
4,4'-DDD	ND	4.0	21	21	ug/kg	1	
4,4'-DDE	**40**	6.3	21	21	ug/kg	1	
4,4'-DDT	**10**	4.5	21	21	ug/kg	1	J
Aldrin	ND	9.5	21	21	ug/kg	1	
alpha-BHC	ND	12	21	21	ug/kg	1	
alpha-Chlordane	ND	11	21	21	ug/kg	1	
beta-BHC	ND	6.5	21	21	ug/kg	1	
Chlordane (tech)	ND	84	410	410	ug/kg	1	
cis-Nonachlor	ND	21	21	21	ug/kg	1	
DCPA	ND	21	21	21	ug/kg	1	
delta-BHC	ND	4.7	21	21	ug/kg	1	
Dieldrin	ND	6.2	21	21	ug/kg	1	
Endosulfan I	ND	4.7	21	21	ug/kg	1	
Endosulfan II	ND	2.6	21	21	ug/kg	1	
Endosulfan sulfate	ND	4.5	21	21	ug/kg	1	
Endrin	ND	11	21	21	ug/kg	1	
Endrin aldehyde	ND	5.8	21	21	ug/kg	1	
Endrin ketone	ND	3.8	21	21	ug/kg	1	
gamma-BHC (Lindane)	ND	11	21	21	ug/kg	1	
gamma-Chlordane	ND	8.2	21	21	ug/kg	1	
Heptachlor	ND	11	21	21	ug/kg	1	
Heptachlor epoxide	ND	7.5	21	21	ug/kg	1	
Kepone	ND	180	410	410	ug/kg	1	
Methoxychlor	ND	4.5	21	21	ug/kg	1	
Mirex	ND	6.4	21	21	ug/kg	1	
Oxychlordane	ND	21	21	21	ug/kg	1	
Toxaphene	ND	71	620	620	ug/kg	1	
trans-Nonachlor	ND	21	21	21	ug/kg	1	
Surr: Decachlorobiphenyl	*66 %*	Conc:*135*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*70 %*	Conc:*144*		*18-112*	%		

700009

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-08 **LN06322**

Sampled: 05/29/13 07:49 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A | Batch: W3E1479 | Prepared: 05/31/13 07:26 | Analyzed: 06/04/13 20:20 | Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	25	25	25	ug/kg	1	
2,4'-DDE	ND	25	25	25	ug/kg	1	
2,4'-DDT	ND	25	25	25	ug/kg	1	
4,4'-DDD	ND	4.8	25	25	ug/kg	1	
4,4'-DDE	ND	7.7	25	25	ug/kg	1	
4,4'-DDT	ND	5.5	25	25	ug/kg	1	
Aldrin	ND	12	25	25	ug/kg	1	
alpha-BHC	ND	15	25	25	ug/kg	1	
alpha-Chlordane	ND	13	25	25	ug/kg	1	
beta-BHC	ND	7.9	25	25	ug/kg	1	
Chlordane (tech)	ND	100	500	500	ug/kg	1	
cis-Nonachlor	ND	25	25	25	ug/kg	1	
DCPA	ND	25	25	25	ug/kg	1	
delta-BHC	ND	5.7	25	25	ug/kg	1	
Dieldrin	ND	7.5	25	25	ug/kg	1	
Endosulfan I	ND	5.7	25	25	ug/kg	1	
Endosulfan II	ND	3.2	25	25	ug/kg	1	
Endosulfan sulfate	ND	5.5	25	25	ug/kg	1	
Endrin	ND	13	25	25	ug/kg	1	
Endrin aldehyde	ND	7.0	25	25	ug/kg	1	
Endrin ketone	ND	4.6	25	25	ug/kg	1	
gamma-BHC (Lindane)	ND	13	25	25	ug/kg	1	
gamma-Chlordane	ND	10	25	25	ug/kg	1	
Heptachlor	ND	14	25	25	ug/kg	1	
Heptachlor epoxide	ND	9.1	25	25	ug/kg	1	
Kepone	ND	220	500	500	ug/kg	1	
Methoxychlor	ND	5.5	25	25	ug/kg	1	
Mirex	ND	7.8	25	25	ug/kg	1	
Oxychlordane	ND	25	25	25	ug/kg	1	
Toxaphene	ND	85	750	750	ug/kg	1	
trans-Nonachlor	ND	25	25	25	ug/kg	1	
Surr: Decachlorobiphenyl	*63 %*	Conc:*156*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*65 %*	Conc:*162*		*18-112*	%		

700010

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-09 **LN06323**

Sampled: 05/29/13 08:00 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 20:48 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	ND	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.7	24	24	ug/kg	1	
4,4'-DDE	ND	7.5	24	24	ug/kg	1	
4,4'-DDT	ND	5.3	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	13	24	24	ug/kg	1	
beta-BHC	ND	7.7	24	24	ug/kg	1	
Chlordane (tech)	ND	99	490	490	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.5	24	24	ug/kg	1	
Dieldrin	ND	7.3	24	24	ug/kg	1	
Endosulfan I	ND	5.5	24	24	ug/kg	1	
Endosulfan II	ND	3.1	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.3	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.8	24	24	ug/kg	1	
Endrin ketone	ND	4.5	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	13	24	24	ug/kg	1	
gamma-Chlordane	ND	9.7	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.8	24	24	ug/kg	1	
Kepone	ND	210	490	490	ug/kg	1	
Methoxychlor	ND	5.3	24	24	ug/kg	1	
Mirex	ND	7.6	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	ND	83	730	730	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*65 %*	Conc:*157*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*79 %*	Conc:*191*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-10 **LN06325**

Sampled: 05/29/13 08:04 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/04/13 23:38 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	23	23	23	ug/kg	1	
2,4'-DDE	ND	23	23	23	ug/kg	1	
2,4'-DDT	ND	23	23	23	ug/kg	1	
4,4'-DDD	ND	4.5	23	23	ug/kg	1	
4,4'-DDE	**15**	7.2	23	23	ug/kg	1	J
4,4'-DDT	**7.8**	5.2	23	23	ug/kg	1	J
Aldrin	ND	11	23	23	ug/kg	1	
alpha-BHC	ND	14	23	23	ug/kg	1	
alpha-Chlordane	ND	12	23	23	ug/kg	1	
beta-BHC	ND	7.4	23	23	ug/kg	1	
Chlordane (tech)	ND	96	470	470	ug/kg	1	
cis-Nonachlor	ND	23	23	23	ug/kg	1	
DCPA	ND	23	23	23	ug/kg	1	
delta-BHC	ND	5.4	23	23	ug/kg	1	
Dieldrin	ND	7.0	23	23	ug/kg	1	
Endosulfan I	ND	5.4	23	23	ug/kg	1	
Endosulfan II	ND	3.0	23	23	ug/kg	1	
Endosulfan sulfate	ND	5.2	23	23	ug/kg	1	
Endrin	ND	13	23	23	ug/kg	1	
Endrin aldehyde	ND	6.6	23	23	ug/kg	1	
Endrin ketone	ND	4.3	23	23	ug/kg	1	
gamma-BHC (Lindane)	ND	12	23	23	ug/kg	1	
gamma-Chlordane	ND	9.4	23	23	ug/kg	1	
Heptachlor	ND	13	23	23	ug/kg	1	
Heptachlor epoxide	ND	8.5	23	23	ug/kg	1	
Kepone	ND	210	470	470	ug/kg	1	
Methoxychlor	ND	5.2	23	23	ug/kg	1	
Mirex	ND	7.3	23	23	ug/kg	1	
Oxychlordane	ND	23	23	23	ug/kg	1	
Toxaphene	ND	80	700	700	ug/kg	1	
trans-Nonachlor	ND	23	23	23	ug/kg	1	
Surr: Decachlorobiphenyl	*64 %*	Conc:*150*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*65 %*	Conc:*152*		*18-112*	%		

700012

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-11 **LN06326**

Sampled: 05/29/13 08:10 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A | Batch: W3E1479 | Prepared: 05/31/13 07:26 | Analyzed: 06/05/13 00:06 | Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	22	22	22	ug/kg	1	
2,4'-DDE	ND	22	22	22	ug/kg	1	
2,4'-DDT	ND	22	22	22	ug/kg	1	
4,4'-DDD	ND	4.2	22	22	ug/kg	1	
4,4'-DDE	ND	6.8	22	22	ug/kg	1	
4,4'-DDT	ND	4.8	22	22	ug/kg	1	
Aldrin	ND	10	22	22	ug/kg	1	
alpha-BHC	ND	13	22	22	ug/kg	1	
alpha-Chlordane	ND	11	22	22	ug/kg	1	
beta-BHC	ND	6.9	22	22	ug/kg	1	
Chlordane (tech)	ND	89	440	440	ug/kg	1	
cis-Nonachlor	ND	22	22	22	ug/kg	1	
DCPA	ND	22	22	22	ug/kg	1	
delta-BHC	ND	5.0	22	22	ug/kg	1	
Dieldrin	ND	6.6	22	22	ug/kg	1	
Endosulfan I	ND	5.0	22	22	ug/kg	1	
Endosulfan II	ND	2.8	22	22	ug/kg	1	
Endosulfan sulfate	ND	4.8	22	22	ug/kg	1	
Endrin	ND	12	22	22	ug/kg	1	
Endrin aldehyde	ND	6.1	22	22	ug/kg	1	
Endrin ketone	ND	4.0	22	22	ug/kg	1	
gamma-BHC (Lindane)	ND	11	22	22	ug/kg	1	
gamma-Chlordane	ND	8.8	22	22	ug/kg	1	
Heptachlor	ND	12	22	22	ug/kg	1	
Heptachlor epoxide	ND	8.0	22	22	ug/kg	1	
Kepone	ND	190	440	440	ug/kg	1	
Methoxychlor	ND	4.8	22	22	ug/kg	1	
Mirex	ND	6.8	22	22	ug/kg	1	
Oxychlordane	ND	22	22	22	ug/kg	1	
Toxaphene	ND	75	660	660	ug/kg	1	
trans-Nonachlor	ND	22	22	22	ug/kg	1	
Surr: Decachlorobiphenyl	*63 %*	Conc:*137*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*59 %*	Conc:*129*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-12 **LN06328**

Sampled: 05/29/13 08:14 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/05/13 00:34 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	**190**	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.7	24	24	ug/kg	1	
4,4'-DDE	**740**	37	120	120	ug/kg	5	M-06
4,4'-DDT	**270**	5.3	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	13	24	24	ug/kg	1	
beta-BHC	**37**	7.7	24	24	ug/kg	1	
Chlordane (tech)	ND	99	490	490	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.5	24	24	ug/kg	1	
Dieldrin	ND	7.3	24	24	ug/kg	1	
Endosulfan I	ND	5.5	24	24	ug/kg	1	
Endosulfan II	ND	3.1	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.3	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.8	24	24	ug/kg	1	
Endrin ketone	ND	4.5	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	13	24	24	ug/kg	1	
gamma-Chlordane	ND	9.7	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.8	24	24	ug/kg	1	
Kepone	ND	210	490	490	ug/kg	1	
Methoxychlor	ND	5.3	24	24	ug/kg	1	
Mirex	ND	7.6	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	**2400**	83	730	730	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*63 %*	Conc:*154*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*61 %*	Conc:*148*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-13 **LN06332**

Sampled: 05/29/13 08:40 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/05/13 01:02 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	25	25	25	ug/kg	1	
2,4'-DDE	ND	25	25	25	ug/kg	1	
2,4'-DDT	ND	25	25	25	ug/kg	1	
4,4'-DDD	ND	4.7	25	25	ug/kg	1	
4,4'-DDE	ND	7.5	25	25	ug/kg	1	
4,4'-DDT	ND	5.4	25	25	ug/kg	1	
Aldrin	ND	11	25	25	ug/kg	1	
alpha-BHC	ND	14	25	25	ug/kg	1	
alpha-Chlordane	ND	13	25	25	ug/kg	1	
beta-BHC	ND	7.7	25	25	ug/kg	1	
Chlordane (tech)	ND	100	490	490	ug/kg	1	
cis-Nonachlor	ND	25	25	25	ug/kg	1	
DCPA	ND	25	25	25	ug/kg	1	
delta-BHC	ND	5.6	25	25	ug/kg	1	
Dieldrin	ND	7.4	25	25	ug/kg	1	
Endosulfan I	ND	5.6	25	25	ug/kg	1	
Endosulfan II	ND	3.1	25	25	ug/kg	1	
Endosulfan sulfate	ND	5.4	25	25	ug/kg	1	
Endrin	ND	13	25	25	ug/kg	1	
Endrin aldehyde	ND	6.9	25	25	ug/kg	1	
Endrin ketone	ND	4.5	25	25	ug/kg	1	
gamma-BHC (Lindane)	ND	13	25	25	ug/kg	1	
gamma-Chlordane	ND	9.8	25	25	ug/kg	1	
Heptachlor	ND	13	25	25	ug/kg	1	
Heptachlor epoxide	ND	8.9	25	25	ug/kg	1	
Kepone	ND	220	490	490	ug/kg	1	
Methoxychlor	ND	5.4	25	25	ug/kg	1	
Mirex	ND	7.6	25	25	ug/kg	1	
Oxychlordane	ND	25	25	25	ug/kg	1	
Toxaphene	ND	84	740	740	ug/kg	1	
trans-Nonachlor	ND	25	25	25	ug/kg	1	
Surr: Decachlorobiphenyl	*56 %*	Conc:*138*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*67 %*	Conc:*165*		*18-112*	%		

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-14 **LN06334**

Sampled: 05/29/13 08:44 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A | Batch: W3E1479 | Prepared: 05/31/13 07:26 | Analyzed: 06/05/13 01:31 | Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	ND	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.5	24	24	ug/kg	1	
4,4'-DDE	ND	7.3	24	24	ug/kg	1	
4,4'-DDT	ND	5.2	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	12	24	24	ug/kg	1	
beta-BHC	ND	7.5	24	24	ug/kg	1	
Chlordane (tech)	ND	97	470	470	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.4	24	24	ug/kg	1	
Dieldrin	ND	7.1	24	24	ug/kg	1	
Endosulfan I	ND	5.4	24	24	ug/kg	1	
Endosulfan II	ND	3.0	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.2	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.6	24	24	ug/kg	1	
Endrin ketone	ND	4.4	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	12	24	24	ug/kg	1	
gamma-Chlordane	ND	9.5	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.6	24	24	ug/kg	1	
Kepone	ND	210	470	470	ug/kg	1	
Methoxychlor	ND	5.2	24	24	ug/kg	1	
Mirex	ND	7.4	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	ND	81	710	710	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*64 %*	Conc:*152*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*70 %*	Conc:*165*		*18-112*	%		

700016

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-15 **LN06341**

Sampled: 05/29/13 09:30 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/05/13 02:00 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	ND	24	24	24	ug/kg	1	
2,4'-DDE	ND	24	24	24	ug/kg	1	
2,4'-DDT	ND	24	24	24	ug/kg	1	
4,4'-DDD	ND	4.6	24	24	ug/kg	1	
4,4'-DDE	ND	7.4	24	24	ug/kg	1	
4,4'-DDT	ND	5.3	24	24	ug/kg	1	
Aldrin	ND	11	24	24	ug/kg	1	
alpha-BHC	ND	14	24	24	ug/kg	1	
alpha-Chlordane	ND	12	24	24	ug/kg	1	
beta-BHC	ND	7.6	24	24	ug/kg	1	
Chlordane (tech)	ND	98	480	480	ug/kg	1	
cis-Nonachlor	ND	24	24	24	ug/kg	1	
DCPA	ND	24	24	24	ug/kg	1	
delta-BHC	ND	5.5	24	24	ug/kg	1	
Dieldrin	ND	7.2	24	24	ug/kg	1	
Endosulfan I	ND	5.5	24	24	ug/kg	1	
Endosulfan II	ND	3.1	24	24	ug/kg	1	
Endosulfan sulfate	ND	5.3	24	24	ug/kg	1	
Endrin	ND	13	24	24	ug/kg	1	
Endrin aldehyde	ND	6.7	24	24	ug/kg	1	
Endrin ketone	ND	4.4	24	24	ug/kg	1	
gamma-BHC (Lindane)	ND	13	24	24	ug/kg	1	
gamma-Chlordane	ND	9.6	24	24	ug/kg	1	
Heptachlor	ND	13	24	24	ug/kg	1	
Heptachlor epoxide	ND	8.8	24	24	ug/kg	1	
Kepone	ND	210	480	480	ug/kg	1	
Methoxychlor	ND	5.3	24	24	ug/kg	1	
Mirex	ND	7.5	24	24	ug/kg	1	
Oxychlordane	ND	24	24	24	ug/kg	1	
Toxaphene	ND	82	720	720	ug/kg	1	
trans-Nonachlor	ND	24	24	24	ug/kg	1	
Surr: Decachlorobiphenyl	*63 %*	Conc:*151*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*69 %*	Conc:*166*		*18-112*	%		

700017

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

3E30013-16 **LN06343**

Sampled: 05/29/13 09:34 **Sampled By:** Client **Matrix:** Solid

Chlorinated Pesticides and/or PCBs

Method: EPA 8081A Batch: W3E1479 Prepared: 05/31/13 07:26 Analyzed: 06/05/13 11:23 Analyst: bma

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
2,4'-DDD	**36**	23	23	23	ug/kg	1	
2,4'-DDE	ND	23	23	23	ug/kg	1	
2,4'-DDT	**94**	23	23	23	ug/kg	1	
4,4'-DDD	ND	4.5	23	23	ug/kg	1	
4,4'-DDE	**440**	7.2	23	23	ug/kg	1	
4,4'-DDT	**260**	5.1	23	23	ug/kg	1	
Aldrin	ND	11	23	23	ug/kg	1	
alpha-BHC	ND	14	23	23	ug/kg	1	
alpha-Chlordane	ND	12	23	23	ug/kg	1	
beta-BHC	**42**	7.4	23	23	ug/kg	1	
Chlordane (tech)	ND	95	470	470	ug/kg	1	
cis-Nonachlor	ND	23	23	23	ug/kg	1	
DCPA	ND	23	23	23	ug/kg	1	
delta-BHC	ND	5.3	23	23	ug/kg	1	
Dieldrin	ND	7.0	23	23	ug/kg	1	
Endosulfan I	ND	5.3	23	23	ug/kg	1	
Endosulfan II	ND	3.0	23	23	ug/kg	1	
Endosulfan sulfate	ND	5.1	23	23	ug/kg	1	
Endrin	ND	13	23	23	ug/kg	1	
Endrin aldehyde	ND	6.5	23	23	ug/kg	1	
Endrin ketone	ND	4.3	23	23	ug/kg	1	
gamma-BHC (Lindane)	ND	12	23	23	ug/kg	1	
gamma-Chlordane	ND	9.3	23	23	ug/kg	1	
Heptachlor	ND	13	23	23	ug/kg	1	
Heptachlor epoxide	ND	8.5	23	23	ug/kg	1	
Kepone	ND	210	470	470	ug/kg	1	
Methoxychlor	ND	5.1	23	23	ug/kg	1	
Mirex	ND	7.3	23	23	ug/kg	1	
Oxychlordane	ND	23	23	23	ug/kg	1	
Toxaphene	**1500**	80	700	700	ug/kg	1	
trans-Nonachlor	ND	23	23	23	ug/kg	1	
Surr: Decachlorobiphenyl	*64 %*	Conc:*150*		*21-125*	%		
Surr: Tetrachloro-meta-xylene	*65 %*	Conc:*153*		*18-112*	%		

700018

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

QUALITY CONTROL SECTION

Weck Laboratories, Inc. 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

LADWP - Environmental Laboratory
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Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W3E1479 - EPA 8081A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3E1479-BLK1)				Analyzed: 06/04/13 13:16						
2,4'-DDD	ND	2.5	ug/kg							
2,4'-DDE	ND	2.5	ug/kg							
2,4'-DDT	ND	2.5	ug/kg							
4,4'-DDD	ND	2.5	ug/kg							
4,4'-DDE	ND	2.5	ug/kg							
4,4'-DDT	ND	2.5	ug/kg							
Aldrin	ND	2.5	ug/kg							
alpha-BHC	ND	2.5	ug/kg							
alpha-Chlordane	ND	2.5	ug/kg							
beta-BHC	ND	2.5	ug/kg							
Chlordane (tech)	ND	50	ug/kg							
cis-Nonachlor	ND	2.5	ug/kg							
DCPA	ND	2.5	ug/kg							
delta-BHC	ND	2.5	ug/kg							
Dieldrin	ND	2.5	ug/kg							
Endosulfan I	ND	2.5	ug/kg							
Endosulfan II	ND	2.5	ug/kg							
Endosulfan sulfate	ND	2.5	ug/kg							
Endrin	ND	2.5	ug/kg							
Endrin aldehyde	ND	2.5	ug/kg							
Endrin ketone	ND	2.5	ug/kg							
gamma-BHC (Lindane)	ND	2.5	ug/kg							
gamma-Chlordane	ND	2.5	ug/kg							
Heptachlor	ND	2.5	ug/kg							
Heptachlor epoxide	ND	2.5	ug/kg							
Kepone	ND	50	ug/kg							
Methoxychlor	ND	2.5	ug/kg							
Mirex	ND	2.5	ug/kg							
Oxychlordane	ND	2.5	ug/kg							
Toxaphene	ND	75	ug/kg							
trans-Nonachlor	ND	2.5	ug/kg							
Surr: Decachlorobiphenyl	*14.7*		*ug/kg*	*25.0*		*59*	*21-125*			
Surr: Tetrachloro-meta-xylene	*16.5*		*ug/kg*	*25.0*		*66*	*18-112*			
LCS (W3E1479-BS1)				Analyzed: 06/04/13 13:44						
4,4'-DDD	21.1	2.5	ug/kg	25.0		85	48-126	NR		
4,4'-DDE	20.1	2.5	ug/kg	25.0		80	48-121	NR		
4,4'-DDT	21.4	2.5	ug/kg	25.0		85	45-146	NR		
Aldrin	19.8	2.5	ug/kg	25.0		79	57-137	NR		
alpha-BHC	20.3	2.5	ug/kg	25.0		81	64-131	NR		
beta-BHC	20.6	2.5	ug/kg	25.0		82	48-126	NR		
Chlordane (tech)	ND	50	ug/kg				41-163			
delta-BHC	19.4	2.5	ug/kg	25.0		78	30-124	NR		
Dieldrin	21.2	2.5	ug/kg	25.0		85	49-123	NR		

700020

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Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W3E1479 - EPA 8081A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W3E1479-BS1)				Analyzed: 06/04/13 13:44						
Endosulfan I	16.1	2.5	ug/kg	25.0		64	14-101	NR		
Endosulfan II	18.1	2.5	ug/kg	25.0		72	33-146	NR		
Endosulfan sulfate	22.6	2.5	ug/kg	25.0		90	33-146	NR		
Endrin	22.0	2.5	ug/kg	25.0		88	39-144	NR		
Endrin aldehyde	17.5	2.5	ug/kg	25.0		70	23-104	NR		
gamma-BHC (Lindane)	20.3	2.5	ug/kg	25.0		81	43-114	NR		
Heptachlor	20.4	2.5	ug/kg	25.0		82	48-125	NR		
Heptachlor epoxide	21.6	2.5	ug/kg	25.0		87	47-121	NR		
Methoxychlor	21.7	2.5	ug/kg	25.0		87	47-157	NR		
Toxaphene	ND	75	ug/kg				48-164			
Surr: Decachlorobiphenyl	*15.3*		*ug/kg*	*25.0*		*61*	*21-125*			
Surr: Tetrachloro-meta-xylene	*18.1*		*ug/kg*	*25.0*		*72*	*18-112*			
Matrix Spike (W3E1479-MS1)	**Source: 3E30013-01**			Analyzed: 06/04/13 14:12						
4,4'-DDD	210	24	ug/kg	240	ND	87	21-119	NR		
4,4'-DDE	199	24	ug/kg	240	ND	83	18-122	NR		
4,4'-DDT	208	24	ug/kg	240	ND	87	12-141	NR		
Aldrin	173	24	ug/kg	240	ND	72	24-173	NR		
alpha-BHC	175	24	ug/kg	240	ND	73	44-146	NR		
beta-BHC	189	24	ug/kg	240	ND	78	7-156	NR		
delta-BHC	185	24	ug/kg	240	ND	77	11-147	NR		
Dieldrin	202	24	ug/kg	240	ND	84	23-123	NR		
Endosulfan I	124	24	ug/kg	240	ND	52	0.1-94	NR		
Endosulfan II	150	24	ug/kg	240	ND	62	0.1-109	NR		
Endosulfan sulfate	215	24	ug/kg	240	ND	89	0.1-152	NR		
Endrin	206	24	ug/kg	240	ND	86	22-147	NR		
Endrin aldehyde	179	24	ug/kg	240	ND	74	0.1-114	NR		
gamma-BHC (Lindane)	178	24	ug/kg	240	ND	74	16-121	NR		
Heptachlor	180	24	ug/kg	240	ND	75	4-141	NR		
Heptachlor epoxide	198	24	ug/kg	240	ND	82	17-135	NR		
Methoxychlor	211	24	ug/kg	240	ND	88	14-153	NR		
Surr: Decachlorobiphenyl	*155*		*ug/kg*	*240*		*64*	*21-125*			
Surr: Tetrachloro-meta-xylene	*153*		*ug/kg*	*240*		*64*	*18-112*			
Matrix Spike Dup (W3E1479-MSD1)	**Source: 3E30013-01**			Analyzed: 06/04/13 14:40						
4,4'-DDD	215	24	ug/kg	243	ND	88	21-119	2	25	
4,4'-DDE	203	24	ug/kg	243	ND	84	18-122	2	25	
4,4'-DDT	220	24	ug/kg	243	ND	91	12-141	6	25	
Aldrin	185	24	ug/kg	243	ND	76	24-173	7	25	
alpha-BHC	187	24	ug/kg	243	ND	77	44-146	6	25	
beta-BHC	200	24	ug/kg	243	ND	83	7-156	6	25	
delta-BHC	193	24	ug/kg	243	ND	79	11-147	4	25	
Dieldrin	209	24	ug/kg	243	ND	86	23-123	4	25	
Endosulfan I	116	24	ug/kg	243	ND	48	0.1-94	7	25	
Endosulfan II	135	24	ug/kg	243	ND	56	0.1-109	10	25	

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Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

Chlorinated Pesticides and/or PCBs - Quality Control

Batch W3E1479 - EPA 8081A

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike Dup (W3E1479-MSD1)	**Source: 3E30013-01**			Analyzed: 06/04/13 14:40						
Endosulfan sulfate	235	24	ug/kg	243	ND	97	0.1-152	9	25	
Endrin	214	24	ug/kg	243	ND	88	22-147	4	25	
Endrin aldehyde	188	24	ug/kg	243	ND	77	0.1-114	5	25	
gamma-BHC (Lindane)	189	24	ug/kg	243	ND	78	16-121	6	25	
Heptachlor	192	24	ug/kg	243	ND	79	4-141	7	25	
Heptachlor epoxide	208	24	ug/kg	243	ND	86	17-135	5	25	
Methoxychlor	235	24	ug/kg	243	ND	97	14-153	11	25	
Surr: Decachlorobiphenyl	*160*		*ug/kg*	*243*		*66*	*21-125*			
Surr: Tetrachloro-meta-xylene	*163*		*ug/kg*	*243*		*67*	*18-112*			

700022

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Los Angeles CA, 90012

Report ID: 3E30013
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/13/13 15:54

Notes and Definitions

M-06	Due to the high concentration of analyte inherent in the sample, sample was diluted prior to preparation. The MDL and MRL were raised due to this dilution.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit
NR	Not Reportable

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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ATTACHMENT #7

Semi Volatile Organic Compounds
(SVOCs)

EPA METHOD 8270C

CERTIFICATE OF ANALYSIS

Client:	LADWP - Environmental Laboratory 1630 North Main Street, Bldg. 7, Rm 311 Los Angeles, CA 90012	**Report Date:**	06/05/13 16:04
		Received Date:	05/30/13 09:50
		Turn Around:	5 workdays
Attention:	Kevin Han	**Work Order #:**	3E30014
Phone:	213-367-7267		49067-3, COC #13-1321,26
Fax:	(213) 367-7285	**Client Project:**	7600 Tyrone Ave,COC #13-1321,26, WO#

NELAP #04229CA ELAP#1132 NEVADA #CA211 HAWAII LACSD #10143

The results in this report apply to the samples analyzed in accordance with the Chain of Custody document. Weck Laboratories, Inc. certifies that the test results meet all NELAC requirements unless noted in the case narrative. This analytical report is confidential and is only intended for the use of Weck Laboratories, Inc. and its client. This report contains the Chain of Custody document, which is an integral part of it, and can only be reproduced in full with the authorization of Weck Laboratories, Inc.

Dear Kevin Han :

Enclosed are the results of analyses for samples received 05/30/13 09:50 with the Chain of Custody document. The samples were received in good condition, at 2.8 °C and on ice. All analysis met the method criteria except as noted below or in the report with data qualifiers.

Case Narrative:

Reviewed by:

Kim G Tu
Project Manager

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LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Sampled by:	Sample Comments	Lab ID	Matrix	Date Sampled
LN06205	Client		3E30014-01	Solid	05/28/13 08:08
LN06207	Client		3E30014-02	Solid	05/28/13 08:04
LN06214	Client		3E30014-03	Solid	05/28/13 08:50
LN06216	Client		3E30014-04	Solid	05/28/13 08:54
LN06217	Client		3E30014-05	Solid	05/28/13 09:00
LN06219	Client		3E30014-06	Solid	05/28/13 09:04
LN06229	Client		3E30014-07	Solid	05/28/13 09:40
LN06231	Client		3E30014-08	Solid	05/28/13 09:44
LN06241	Client		3E30014-09	Solid	05/28/13 10:20
LN06243	Client		3E30014-10	Solid	05/28/13 10:24
LN06259	Client		3E30014-11	Solid	05/28/13 11:30
LN06261	Client		3E30014-12	Solid	05/28/13 11:34
LN06329	Client		3E30014-13	Solid	05/29/13 08:30
LN06331	Client		3E30014-14	Solid	05/29/13 08:34
LN06335	Client		3E30014-15	Solid	05/29/13 09:00
LN06337	Client		3E30014-16	Solid	05/29/13 09:04
LN06338	Client		3E30014-17	Solid	05/29/13 09:06
LN06340	Client		3E30014-18	Solid	05/29/13 09:10
LN06341	Client		3E30014-19	Solid	05/29/13 09:30
LN06343	Client		3E30014-20	Solid	05/29/13 09:34

ANALYSES

Semivolatile Organic Compounds by GC/MS

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LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-13 **LN06329**

Sampled: 05/29/13 08:30 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 01:12 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.080	0.44	0.44	mg/kg	1	
1,2-Dichlorobenzene	ND	0.097	0.44	0.44	mg/kg	1	
1,3-Dichlorobenzene	ND	0.071	0.44	0.44	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.44	0.44	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.097	0.44	0.44	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.097	0.44	0.44	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.44	0.44	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.44	0.44	mg/kg	1	
2,4-Dinitrophenol	ND	3.4	22	22	mg/kg	1	
2,4-Dinitrotoluene	ND	0.088	0.44	0.44	mg/kg	1	
2,6-Dinitrotoluene	ND	0.071	0.44	0.44	mg/kg	1	
2-Chloronaphthalene	ND	0.071	0.44	0.44	mg/kg	1	
2-Chlorophenol	ND	0.088	0.44	0.44	mg/kg	1	
2-Methylnaphthalene	ND	0.080	0.44	0.44	mg/kg	1	
2-Methylphenol	ND	0.11	0.44	0.44	mg/kg	1	
2-Nitroaniline	ND	0.12	0.44	0.44	mg/kg	1	
2-Nitrophenol	ND	0.19	0.44	0.44	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.44	0.44	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.3	2.2	2.2	mg/kg	1	
3-Nitroaniline	ND	0.13	0.44	0.44	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.4	4.4	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.062	0.44	0.44	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.097	0.44	0.44	mg/kg	1	
4-Chloroaniline	ND	0.12	0.44	0.44	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.080	0.44	0.44	mg/kg	1	
4-Nitroaniline	ND	0.12	0.44	0.44	mg/kg	1	
4-Nitrophenol	ND	0.13	0.44	0.44	mg/kg	1	
Acenaphthene	ND	0.080	0.44	0.44	mg/kg	1	
Acenaphthylene	ND	0.080	0.44	0.44	mg/kg	1	
Aniline	ND	0.20	0.44	0.44	mg/kg	1	
Anthracene	ND	0.071	0.44	0.44	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.088	0.44	0.44	mg/kg	1	
Benzidine	ND	1.1	4.4	4.4	mg/kg	1	
Benzo (a) anthracene	ND	0.062	0.44	0.44	mg/kg	1	
Benzo (a) pyrene	ND	0.071	0.44	0.44	mg/kg	1	
Benzo (b) fluoranthene	ND	0.062	0.44	0.44	mg/kg	1	
Benzo (g,h,i) perylene	**0.11**	0.053	0.88	0.88	mg/kg	1	J
Benzo (k) fluoranthene	ND	0.12	0.44	0.44	mg/kg	1	
Benzoic acid	ND	1.7	22	22	mg/kg	1	
Benzyl alcohol	ND	0.12	0.44	0.44	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-13 **LN06329**

Sampled: 05/29/13 08:30 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 01:12 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.080	0.44	0.44	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.097	0.44	0.44	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.12	0.44	0.44	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.44	0.44	mg/kg	1	
Butyl benzyl phthalate	**0.28**	0.13	0.44	0.44	mg/kg	1	J
Carbazole	ND	0.080	0.44	0.44	mg/kg	1	
Chrysene	ND	0.080	0.44	0.44	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.044	0.88	0.88	mg/kg	1	
Dibenzofuran	ND	0.080	0.44	0.44	mg/kg	1	
Diethyl phthalate	ND	0.053	0.44	0.44	mg/kg	1	
Dimethyl phthalate	ND	0.78	2.2	2.2	mg/kg	1	
Di-n-butyl phthalate	ND	0.071	0.44	0.44	mg/kg	1	
Di-n-octyl phthalate	ND	0.12	0.44	0.44	mg/kg	1	
Fluoranthene	ND	0.097	0.44	0.44	mg/kg	1	
Fluorene	ND	0.062	0.44	0.44	mg/kg	1	
Hexachlorobenzene	ND	0.071	0.44	0.44	mg/kg	1	
Hexachlorobutadiene	ND	0.080	0.44	0.44	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.44	0.44	mg/kg	1	
Hexachloroethane	ND	0.062	0.44	0.44	mg/kg	1	
Indeno (1,2,3-cd) pyrene	**0.15**	0.080	0.88	0.88	mg/kg	1	J
Isophorone	ND	0.088	0.44	0.44	mg/kg	1	
Naphthalene	ND	0.097	0.44	0.44	mg/kg	1	
Nitrobenzene	ND	0.097	0.44	0.44	mg/kg	1	
N-Nitrosodimethylamine	ND	0.080	0.44	0.44	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.080	0.44	0.44	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.062	0.44	0.44	mg/kg	1	
Pentachlorophenol	ND	0.14	0.44	0.44	mg/kg	1	
Phenanthrene	ND	0.071	0.44	0.44	mg/kg	1	
Phenol	ND	0.13	0.44	0.44	mg/kg	1	
Pyrene	ND	0.071	0.44	0.44	mg/kg	1	
Pyridine	ND	0.044	0.88	0.88	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*65 %*	Conc:*28.6*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*74 %*	Conc:*16.4*		*39-100*	%		
Surr: 2-Fluorophenol	*89 %*	Conc:*39.6*		*26-115*	%		
Surr: Nitrobenzene-d5	*76 %*	Conc:*16.8*		*49-105*	%		
Surr: Phenol-d5	*84 %*	Conc:*37.3*		*36-105*	%		
Surr: Terphenyl-d14	*86 %*	Conc:*19.1*		*36-106*	%		

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800004

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-14 LN06331

Sampled: 05/29/13 08:34 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 01:42 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.090	0.50	0.50	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.50	0.50	mg/kg	1	
1,3-Dichlorobenzene	ND	0.080	0.50	0.50	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.50	0.50	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.50	0.50	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2,4-Dinitrophenol	ND	3.8	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.10	0.50	0.50	mg/kg	1	
2,6-Dinitrotoluene	ND	0.080	0.50	0.50	mg/kg	1	
2-Chloronaphthalene	ND	0.080	0.50	0.50	mg/kg	1	
2-Chlorophenol	ND	0.10	0.50	0.50	mg/kg	1	
2-Methylnaphthalene	ND	0.090	0.50	0.50	mg/kg	1	
2-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
2-Nitrophenol	ND	0.22	0.50	0.50	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.50	0.50	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	5.0	5.0	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.070	0.50	0.50	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.50	0.50	mg/kg	1	
4-Chloroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.090	0.50	0.50	mg/kg	1	
4-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Nitrophenol	ND	0.15	0.50	0.50	mg/kg	1	
Acenaphthene	ND	0.090	0.50	0.50	mg/kg	1	
Acenaphthylene	ND	0.090	0.50	0.50	mg/kg	1	
Aniline	ND	0.23	0.50	0.50	mg/kg	1	
Anthracene	ND	0.080	0.50	0.50	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.10	0.50	0.50	mg/kg	1	
Benzidine	ND	1.3	5.0	5.0	mg/kg	1	
Benzo (a) anthracene	ND	0.070	0.50	0.50	mg/kg	1	
Benzo (a) pyrene	ND	0.080	0.50	0.50	mg/kg	1	
Benzo (b) fluoranthene	ND	0.070	0.50	0.50	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.060	1.0	1.0	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.50	0.50	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.50	0.50	mg/kg	1	

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-14 **LN06331**

Sampled: 05/29/13 08:34 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 01:42 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.090	0.50	0.50	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.50	0.50	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.50	0.50	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.50	0.50	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.50	0.50	mg/kg	1	
Carbazole	ND	0.090	0.50	0.50	mg/kg	1	
Chrysene	ND	0.090	0.50	0.50	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.050	1.0	1.0	mg/kg	1	
Dibenzofuran	ND	0.090	0.50	0.50	mg/kg	1	
Diethyl phthalate	ND	0.060	0.50	0.50	mg/kg	1	
Dimethyl phthalate	ND	0.88	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.080	0.50	0.50	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.50	0.50	mg/kg	1	
Fluoranthene	ND	0.11	0.50	0.50	mg/kg	1	
Fluorene	ND	0.070	0.50	0.50	mg/kg	1	
Hexachlorobenzene	ND	0.080	0.50	0.50	mg/kg	1	
Hexachlorobutadiene	ND	0.090	0.50	0.50	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.50	0.50	mg/kg	1	
Hexachloroethane	ND	0.070	0.50	0.50	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.090	1.0	1.0	mg/kg	1	
Isophorone	ND	0.10	0.50	0.50	mg/kg	1	
Naphthalene	ND	0.11	0.50	0.50	mg/kg	1	
Nitrobenzene	ND	0.11	0.50	0.50	mg/kg	1	
N-Nitrosodimethylamine	ND	0.090	0.50	0.50	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.090	0.50	0.50	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.070	0.50	0.50	mg/kg	1	
Pentachlorophenol	ND	0.16	0.50	0.50	mg/kg	1	
Phenanthrene	ND	0.080	0.50	0.50	mg/kg	1	
Phenol	ND	0.15	0.50	0.50	mg/kg	1	
Pyrene	ND	0.080	0.50	0.50	mg/kg	1	
Pyridine	ND	0.050	1.0	1.0	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*61 %*	Conc:*30.6*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*73 %*	Conc:*18.0*		*39-100*	%		
Surr: 2-Fluorophenol	*86 %*	Conc:*42.9*		*26-115*	%		
Surr: Nitrobenzene-d5	*75 %*	Conc:*18.8*		*49-105*	%		
Surr: Phenol-d5	*82 %*	Conc:*40.6*		*36-105*	%		
Surr: Terphenyl-d14	*84 %*	Conc:*21.0*		*36-106*	%		

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800006

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-15 LN06335

Sampled: 05/29/13 09:00 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 02:12 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.089	0.50	0.50	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.50	0.50	mg/kg	1	
1,3-Dichlorobenzene	ND	0.079	0.50	0.50	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.50	0.50	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.50	0.50	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.50	0.50	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2,4-Dinitrophenol	ND	3.8	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.099	0.50	0.50	mg/kg	1	
2,6-Dinitrotoluene	ND	0.079	0.50	0.50	mg/kg	1	
2-Chloronaphthalene	ND	0.079	0.50	0.50	mg/kg	1	
2-Chlorophenol	ND	0.099	0.50	0.50	mg/kg	1	
2-Methylnaphthalene	ND	0.089	0.50	0.50	mg/kg	1	
2-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
2-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
2-Nitrophenol	ND	0.22	0.50	0.50	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.50	0.50	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.50	0.50	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	5.0	5.0	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.50	0.50	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.50	0.50	mg/kg	1	
4-Chloroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.089	0.50	0.50	mg/kg	1	
4-Nitroaniline	ND	0.13	0.50	0.50	mg/kg	1	
4-Nitrophenol	ND	0.15	0.50	0.50	mg/kg	1	
Acenaphthene	ND	0.089	0.50	0.50	mg/kg	1	
Acenaphthylene	ND	0.089	0.50	0.50	mg/kg	1	
Aniline	ND	0.23	0.50	0.50	mg/kg	1	
Anthracene	ND	0.079	0.50	0.50	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.099	0.50	0.50	mg/kg	1	
Benzidine	ND	1.2	5.0	5.0	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.50	0.50	mg/kg	1	
Benzo (a) pyrene	ND	0.079	0.50	0.50	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.50	0.50	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.99	0.99	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.50	0.50	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.50	0.50	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-15 **LN06335**

Sampled: 05/29/13 09:00 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 02:12 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.089	0.50	0.50	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.50	0.50	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.50	0.50	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.50	0.50	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.50	0.50	mg/kg	1	
Carbazole	ND	0.089	0.50	0.50	mg/kg	1	
Chrysene	ND	0.089	0.50	0.50	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.050	0.99	0.99	mg/kg	1	
Dibenzofuran	ND	0.089	0.50	0.50	mg/kg	1	
Diethyl phthalate	ND	0.059	0.50	0.50	mg/kg	1	
Dimethyl phthalate	ND	0.87	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.079	0.50	0.50	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.50	0.50	mg/kg	1	
Fluoranthene	ND	0.11	0.50	0.50	mg/kg	1	
Fluorene	ND	0.069	0.50	0.50	mg/kg	1	
Hexachlorobenzene	ND	0.079	0.50	0.50	mg/kg	1	
Hexachlorobutadiene	ND	0.089	0.50	0.50	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.50	0.50	mg/kg	1	
Hexachloroethane	ND	0.069	0.50	0.50	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.089	0.99	0.99	mg/kg	1	
Isophorone	ND	0.099	0.50	0.50	mg/kg	1	
Naphthalene	ND	0.11	0.50	0.50	mg/kg	1	
Nitrobenzene	ND	0.11	0.50	0.50	mg/kg	1	
N-Nitrosodimethylamine	ND	0.089	0.50	0.50	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.089	0.50	0.50	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.50	0.50	mg/kg	1	
Pentachlorophenol	ND	0.16	0.50	0.50	mg/kg	1	
Phenanthrene	ND	0.079	0.50	0.50	mg/kg	1	
Phenol	ND	0.15	0.50	0.50	mg/kg	1	
Pyrene	ND	0.079	0.50	0.50	mg/kg	1	
Pyridine	ND	0.050	0.99	0.99	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*62 %*	Conc:*30.6*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*74 %*	Conc:*18.3*		*39-100*	%		
Surr: 2-Fluorophenol	*86 %*	Conc:*42.8*		*26-115*	%		
Surr: Nitrobenzene-d5	*75 %*	Conc:*18.5*		*49-105*	%		
Surr: Phenol-d5	*82 %*	Conc:*40.4*		*36-105*	%		
Surr: Terphenyl-d14	*82 %*	Conc:*20.2*		*36-106*	%		

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800008

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1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-16 **LN06337**

Sampled: 05/29/13 09:04 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 02:42 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.088	0.49	0.49	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.49	0.49	mg/kg	1	
1,3-Dichlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.49	0.49	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.49	0.49	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.098	0.49	0.49	mg/kg	1	
2,6-Dinitrotoluene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chloronaphthalene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chlorophenol	ND	0.098	0.49	0.49	mg/kg	1	
2-Methylnaphthalene	ND	0.088	0.49	0.49	mg/kg	1	
2-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
2-Nitrophenol	ND	0.22	0.49	0.49	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.49	0.49	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.9	4.9	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.49	0.49	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.49	0.49	mg/kg	1	
4-Chloroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.088	0.49	0.49	mg/kg	1	
4-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Nitrophenol	ND	0.15	0.49	0.49	mg/kg	1	
Acenaphthene	ND	0.088	0.49	0.49	mg/kg	1	
Acenaphthylene	ND	0.088	0.49	0.49	mg/kg	1	
Aniline	ND	0.23	0.49	0.49	mg/kg	1	
Anthracene	ND	0.078	0.49	0.49	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.098	0.49	0.49	mg/kg	1	
Benzidine	ND	1.2	4.9	4.9	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (a) pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.98	0.98	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.49	0.49	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.49	0.49	mg/kg	1	

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Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-16 **LN06337**

Sampled: 05/29/13 09:04 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 02:42 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.088	0.49	0.49	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.49	0.49	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.49	0.49	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.49	0.49	mg/kg	1	
Butyl benzyl phthalate	ND	0.15	0.49	0.49	mg/kg	1	
Carbazole	ND	0.088	0.49	0.49	mg/kg	1	
Chrysene	ND	0.088	0.49	0.49	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.049	0.98	0.98	mg/kg	1	
Dibenzofuran	ND	0.088	0.49	0.49	mg/kg	1	
Diethyl phthalate	ND	0.059	0.49	0.49	mg/kg	1	
Dimethyl phthalate	ND	0.86	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.078	0.49	0.49	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.49	0.49	mg/kg	1	
Fluoranthene	ND	0.11	0.49	0.49	mg/kg	1	
Fluorene	ND	0.069	0.49	0.49	mg/kg	1	
Hexachlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
Hexachlorobutadiene	ND	0.088	0.49	0.49	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.49	0.49	mg/kg	1	
Hexachloroethane	ND	0.069	0.49	0.49	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.088	0.98	0.98	mg/kg	1	
Isophorone	ND	0.098	0.49	0.49	mg/kg	1	
Naphthalene	ND	0.11	0.49	0.49	mg/kg	1	
Nitrobenzene	ND	0.11	0.49	0.49	mg/kg	1	
N-Nitrosodimethylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.49	0.49	mg/kg	1	
Pentachlorophenol	ND	0.16	0.49	0.49	mg/kg	1	
Phenanthrene	ND	0.078	0.49	0.49	mg/kg	1	
Phenol	ND	0.15	0.49	0.49	mg/kg	1	
Pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Pyridine	ND	0.049	0.98	0.98	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*56 %*	Conc:*27.5*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*67 %*	Conc:*16.5*		*39-100*	%		
Surr: 2-Fluorophenol	*78 %*	Conc:*38.3*		*26-115*	%		
Surr: Nitrobenzene-d5	*69 %*	Conc:*16.9*		*49-105*	%		
Surr: Phenol-d5	*75 %*	Conc:*36.6*		*36-105*	%		
Surr: Terphenyl-d14	*73 %*	Conc:*18.0*		*36-106*	%		

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800010

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-17 LN06338

Sampled: 05/29/13 09:06 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 03:13 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.087	0.48	0.48	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.48	0.48	mg/kg	1	
1,3-Dichlorobenzene	ND	0.077	0.48	0.48	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.48	0.48	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.48	0.48	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.48	0.48	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.48	0.48	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.48	0.48	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	24	24	mg/kg	1	
2,4-Dinitrotoluene	ND	0.097	0.48	0.48	mg/kg	1	
2,6-Dinitrotoluene	ND	0.077	0.48	0.48	mg/kg	1	
2-Chloronaphthalene	ND	0.077	0.48	0.48	mg/kg	1	
2-Chlorophenol	ND	0.097	0.48	0.48	mg/kg	1	
2-Methylnaphthalene	ND	0.087	0.48	0.48	mg/kg	1	
2-Methylphenol	ND	0.12	0.48	0.48	mg/kg	1	
2-Nitroaniline	ND	0.13	0.48	0.48	mg/kg	1	
2-Nitrophenol	ND	0.21	0.48	0.48	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.48	0.48	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.4	2.4	mg/kg	1	
3-Nitroaniline	ND	0.14	0.48	0.48	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.8	4.8	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.068	0.48	0.48	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.48	0.48	mg/kg	1	
4-Chloroaniline	ND	0.13	0.48	0.48	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.087	0.48	0.48	mg/kg	1	
4-Nitroaniline	ND	0.13	0.48	0.48	mg/kg	1	
4-Nitrophenol	ND	0.14	0.48	0.48	mg/kg	1	
Acenaphthene	ND	0.087	0.48	0.48	mg/kg	1	
Acenaphthylene	ND	0.087	0.48	0.48	mg/kg	1	
Aniline	ND	0.22	0.48	0.48	mg/kg	1	
Anthracene	ND	0.077	0.48	0.48	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.097	0.48	0.48	mg/kg	1	
Benzidine	ND	1.2	4.8	4.8	mg/kg	1	
Benzo (a) anthracene	ND	0.068	0.48	0.48	mg/kg	1	
Benzo (a) pyrene	ND	0.077	0.48	0.48	mg/kg	1	
Benzo (b) fluoranthene	ND	0.068	0.48	0.48	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.058	0.97	0.97	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.48	0.48	mg/kg	1	
Benzoic acid	ND	1.8	24	24	mg/kg	1	
Benzyl alcohol	ND	0.14	0.48	0.48	mg/kg	1	

800011

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-17 **LN06338**

Sampled: 05/29/13 09:06 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 03:13 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.087	0.48	0.48	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.48	0.48	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.48	0.48	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.48	0.48	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.48	0.48	mg/kg	1	
Carbazole	ND	0.087	0.48	0.48	mg/kg	1	
Chrysene	ND	0.087	0.48	0.48	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.048	0.97	0.97	mg/kg	1	
Dibenzofuran	ND	0.087	0.48	0.48	mg/kg	1	
Diethyl phthalate	ND	0.058	0.48	0.48	mg/kg	1	
Dimethyl phthalate	ND	0.85	2.4	2.4	mg/kg	1	
Di-n-butyl phthalate	ND	0.077	0.48	0.48	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.48	0.48	mg/kg	1	
Fluoranthene	ND	0.11	0.48	0.48	mg/kg	1	
Fluorene	ND	0.068	0.48	0.48	mg/kg	1	
Hexachlorobenzene	ND	0.077	0.48	0.48	mg/kg	1	
Hexachlorobutadiene	ND	0.087	0.48	0.48	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.48	0.48	mg/kg	1	
Hexachloroethane	ND	0.068	0.48	0.48	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.087	0.97	0.97	mg/kg	1	
Isophorone	ND	0.097	0.48	0.48	mg/kg	1	
Naphthalene	ND	0.11	0.48	0.48	mg/kg	1	
Nitrobenzene	ND	0.11	0.48	0.48	mg/kg	1	
N-Nitrosodimethylamine	ND	0.087	0.48	0.48	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.087	0.48	0.48	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.068	0.48	0.48	mg/kg	1	
Pentachlorophenol	ND	0.15	0.48	0.48	mg/kg	1	
Phenanthrene	ND	0.077	0.48	0.48	mg/kg	1	
Phenol	ND	0.14	0.48	0.48	mg/kg	1	
Pyrene	ND	0.077	0.48	0.48	mg/kg	1	
Pyridine	ND	0.048	0.97	0.97	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*55 %*	Conc:*26.6*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*62 %*	Conc:*14.9*		*39-100*	%		
Surr: 2-Fluorophenol	*72 %*	Conc:*34.9*		*26-115*	%		
Surr: Nitrobenzene-d5	*65 %*	Conc:*15.7*		*49-105*	%		
Surr: Phenol-d5	*70 %*	Conc:*33.9*		*36-105*	%		
Surr: Terphenyl-d14	*70 %*	Conc:*16.8*		*36-106*	%		

800012

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-18 **LN06340**

Sampled: 05/29/13 09:10 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 03:43 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.087	0.48	0.48	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.48	0.48	mg/kg	1	
1,3-Dichlorobenzene	ND	0.077	0.48	0.48	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.48	0.48	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.48	0.48	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.48	0.48	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.48	0.48	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.48	0.48	mg/kg	1	
2,4-Dinitrophenol	ND	3.6	24	24	mg/kg	1	
2,4-Dinitrotoluene	ND	0.096	0.48	0.48	mg/kg	1	
2,6-Dinitrotoluene	ND	0.077	0.48	0.48	mg/kg	1	
2-Chloronaphthalene	ND	0.077	0.48	0.48	mg/kg	1	
2-Chlorophenol	ND	0.096	0.48	0.48	mg/kg	1	
2-Methylnaphthalene	ND	0.087	0.48	0.48	mg/kg	1	
2-Methylphenol	ND	0.12	0.48	0.48	mg/kg	1	
2-Nitroaniline	ND	0.12	0.48	0.48	mg/kg	1	
2-Nitrophenol	ND	0.21	0.48	0.48	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.48	0.48	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.4	2.4	mg/kg	1	
3-Nitroaniline	ND	0.14	0.48	0.48	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.8	4.8	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.067	0.48	0.48	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.48	0.48	mg/kg	1	
4-Chloroaniline	ND	0.12	0.48	0.48	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.087	0.48	0.48	mg/kg	1	
4-Nitroaniline	ND	0.12	0.48	0.48	mg/kg	1	
4-Nitrophenol	ND	0.14	0.48	0.48	mg/kg	1	
Acenaphthene	ND	0.087	0.48	0.48	mg/kg	1	
Acenaphthylene	ND	0.087	0.48	0.48	mg/kg	1	
Aniline	ND	0.22	0.48	0.48	mg/kg	1	
Anthracene	ND	0.077	0.48	0.48	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.096	0.48	0.48	mg/kg	1	
Benzidine	ND	1.2	4.8	4.8	mg/kg	1	
Benzo (a) anthracene	ND	0.067	0.48	0.48	mg/kg	1	
Benzo (a) pyrene	ND	0.077	0.48	0.48	mg/kg	1	
Benzo (b) fluoranthene	ND	0.067	0.48	0.48	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.058	0.96	0.96	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.48	0.48	mg/kg	1	
Benzoic acid	ND	1.8	24	24	mg/kg	1	
Benzyl alcohol	ND	0.13	0.48	0.48	mg/kg	1	

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LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-18 **LN06340**

Sampled: 05/29/13 09:10 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 03:43 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.087	0.48	0.48	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.48	0.48	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.48	0.48	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.48	0.48	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.48	0.48	mg/kg	1	
Carbazole	ND	0.087	0.48	0.48	mg/kg	1	
Chrysene	ND	0.087	0.48	0.48	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.048	0.96	0.96	mg/kg	1	
Dibenzofuran	ND	0.087	0.48	0.48	mg/kg	1	
Diethyl phthalate	ND	0.058	0.48	0.48	mg/kg	1	
Dimethyl phthalate	ND	0.85	2.4	2.4	mg/kg	1	
Di-n-butyl phthalate	ND	0.077	0.48	0.48	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.48	0.48	mg/kg	1	
Fluoranthene	ND	0.11	0.48	0.48	mg/kg	1	
Fluorene	ND	0.067	0.48	0.48	mg/kg	1	
Hexachlorobenzene	ND	0.077	0.48	0.48	mg/kg	1	
Hexachlorobutadiene	ND	0.087	0.48	0.48	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.48	0.48	mg/kg	1	
Hexachloroethane	ND	0.067	0.48	0.48	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.087	0.96	0.96	mg/kg	1	
Isophorone	ND	0.096	0.48	0.48	mg/kg	1	
Naphthalene	ND	0.11	0.48	0.48	mg/kg	1	
Nitrobenzene	ND	0.11	0.48	0.48	mg/kg	1	
N-Nitrosodimethylamine	ND	0.087	0.48	0.48	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.087	0.48	0.48	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.067	0.48	0.48	mg/kg	1	
Pentachlorophenol	ND	0.15	0.48	0.48	mg/kg	1	
Phenanthrene	ND	0.077	0.48	0.48	mg/kg	1	
Phenol	ND	0.14	0.48	0.48	mg/kg	1	
Pyrene	ND	0.077	0.48	0.48	mg/kg	1	
Pyridine	ND	0.048	0.96	0.96	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*56 %*	Conc:*26.9*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*62 %*	Conc:*14.8*		*39-100*	%		
Surr: 2-Fluorophenol	*72 %*	Conc:*34.5*		*26-115*	%		
Surr: Nitrobenzene-d5	*63 %*	Conc:*15.2*		*49-105*	%		
Surr: Phenol-d5	*69 %*	Conc:*33.0*		*36-105*	%		
Surr: Terphenyl-d14	*91 %*	Conc:*21.8*		*36-106*	%		

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B00014

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-19 LN06341

Sampled: 05/29/13 09:30 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C Batch: W3F0001 Prepared: 06/01/13 09:40 Analyzed: 06/05/13 04:13 Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.081	0.45	0.45	mg/kg	1	
1,2-Dichlorobenzene	ND	0.10	0.45	0.45	mg/kg	1	
1,3-Dichlorobenzene	ND	0.072	0.45	0.45	mg/kg	1	
1,4-Dichlorobenzene	ND	0.11	0.45	0.45	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.10	0.45	0.45	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.10	0.45	0.45	mg/kg	1	
2,4-Dichlorophenol	ND	0.12	0.45	0.45	mg/kg	1	
2,4-Dimethylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2,4-Dinitrophenol	ND	3.4	23	23	mg/kg	1	
2,4-Dinitrotoluene	ND	0.090	0.45	0.45	mg/kg	1	
2,6-Dinitrotoluene	ND	0.072	0.45	0.45	mg/kg	1	
2-Chloronaphthalene	ND	0.072	0.45	0.45	mg/kg	1	
2-Chlorophenol	ND	0.090	0.45	0.45	mg/kg	1	
2-Methylnaphthalene	ND	0.081	0.45	0.45	mg/kg	1	
2-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
2-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
2-Nitrophenol	ND	0.20	0.45	0.45	mg/kg	1	
3 & 4-Methylphenol	ND	0.11	0.45	0.45	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.4	2.3	2.3	mg/kg	1	
3-Nitroaniline	ND	0.14	0.45	0.45	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.4	4.5	4.5	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.063	0.45	0.45	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.10	0.45	0.45	mg/kg	1	
4-Chloroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.081	0.45	0.45	mg/kg	1	
4-Nitroaniline	ND	0.12	0.45	0.45	mg/kg	1	
4-Nitrophenol	ND	0.14	0.45	0.45	mg/kg	1	
Acenaphthene	ND	0.081	0.45	0.45	mg/kg	1	
Acenaphthylene	ND	0.081	0.45	0.45	mg/kg	1	
Aniline	ND	0.21	0.45	0.45	mg/kg	1	
Anthracene	ND	0.072	0.45	0.45	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.090	0.45	0.45	mg/kg	1	
Benzidine	ND	1.1	4.5	4.5	mg/kg	1	
Benzo (a) anthracene	ND	0.063	0.45	0.45	mg/kg	1	
Benzo (a) pyrene	ND	0.072	0.45	0.45	mg/kg	1	
Benzo (b) fluoranthene	ND	0.063	0.45	0.45	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.054	0.90	0.90	mg/kg	1	
Benzo (k) fluoranthene	ND	0.12	0.45	0.45	mg/kg	1	
Benzoic acid	ND	1.7	23	23	mg/kg	1	
Benzyl alcohol	ND	0.13	0.45	0.45	mg/kg	1	

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-19 **LN06341**

Sampled: 05/29/13 09:30 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 04:13 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.081	0.45	0.45	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.10	0.45	0.45	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.13	0.45	0.45	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.11	0.45	0.45	mg/kg	1	
Butyl benzyl phthalate	ND	0.14	0.45	0.45	mg/kg	1	
Carbazole	ND	0.081	0.45	0.45	mg/kg	1	
Chrysene	ND	0.081	0.45	0.45	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.045	0.90	0.90	mg/kg	1	
Dibenzofuran	ND	0.081	0.45	0.45	mg/kg	1	
Diethyl phthalate	ND	0.054	0.45	0.45	mg/kg	1	
Dimethyl phthalate	ND	0.80	2.3	2.3	mg/kg	1	
Di-n-butyl phthalate	ND	0.072	0.45	0.45	mg/kg	1	
Di-n-octyl phthalate	ND	0.13	0.45	0.45	mg/kg	1	
Fluoranthene	ND	0.10	0.45	0.45	mg/kg	1	
Fluorene	ND	0.063	0.45	0.45	mg/kg	1	
Hexachlorobenzene	ND	0.072	0.45	0.45	mg/kg	1	
Hexachlorobutadiene	ND	0.081	0.45	0.45	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.11	0.45	0.45	mg/kg	1	
Hexachloroethane	ND	0.063	0.45	0.45	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.081	0.90	0.90	mg/kg	1	
Isophorone	ND	0.090	0.45	0.45	mg/kg	1	
Naphthalene	ND	0.10	0.45	0.45	mg/kg	1	
Nitrobenzene	ND	0.10	0.45	0.45	mg/kg	1	
N-Nitrosodimethylamine	ND	0.081	0.45	0.45	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.081	0.45	0.45	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.063	0.45	0.45	mg/kg	1	
Pentachlorophenol	ND	0.14	0.45	0.45	mg/kg	1	
Phenanthrene	ND	0.072	0.45	0.45	mg/kg	1	
Phenol	ND	0.14	0.45	0.45	mg/kg	1	
Pyrene	ND	0.072	0.45	0.45	mg/kg	1	
Pyridine	ND	0.045	0.90	0.90	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*66 %*	Conc:*29.8*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*74 %*	Conc:*16.7*		*39-100*	%		
Surr: 2-Fluorophenol	*88 %*	Conc:*40.0*		*26-115*	%		
Surr: Nitrobenzene-d5	*75 %*	Conc:*16.9*		*49-105*	%		
Surr: Phenol-d5	*81 %*	Conc:*36.9*		*36-105*	%		
Surr: Terphenyl-d14	*83 %*	Conc:*18.7*		*36-106*	%		

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

800016

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-20 **LN06343**

Sampled: 05/29/13 09:34 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 04:44 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
1,2,4-Trichlorobenzene	ND	0.088	0.49	0.49	mg/kg	1	
1,2-Dichlorobenzene	ND	0.11	0.49	0.49	mg/kg	1	
1,3-Dichlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
1,4-Dichlorobenzene	ND	0.12	0.49	0.49	mg/kg	1	
2,4,5-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4,6-Trichlorophenol	ND	0.11	0.49	0.49	mg/kg	1	
2,4-Dichlorophenol	ND	0.13	0.49	0.49	mg/kg	1	
2,4-Dimethylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2,4-Dinitrophenol	ND	3.7	25	25	mg/kg	1	
2,4-Dinitrotoluene	ND	0.098	0.49	0.49	mg/kg	1	
2,6-Dinitrotoluene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chloronaphthalene	ND	0.078	0.49	0.49	mg/kg	1	
2-Chlorophenol	ND	0.098	0.49	0.49	mg/kg	1	
2-Methylnaphthalene	ND	0.088	0.49	0.49	mg/kg	1	
2-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
2-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
2-Nitrophenol	ND	0.22	0.49	0.49	mg/kg	1	
3 & 4-Methylphenol	ND	0.12	0.49	0.49	mg/kg	1	
3,3'-Dichlorobenzidine	ND	1.5	2.5	2.5	mg/kg	1	
3-Nitroaniline	ND	0.15	0.49	0.49	mg/kg	1	
4,6-Dinitro-2-methylphenol	ND	1.5	4.9	4.9	mg/kg	1	
4-Bromophenyl phenyl ether	ND	0.069	0.49	0.49	mg/kg	1	
4-Chloro-3-methylphenol	ND	0.11	0.49	0.49	mg/kg	1	
4-Chloroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Chlorophenyl phenyl ether	ND	0.088	0.49	0.49	mg/kg	1	
4-Nitroaniline	ND	0.13	0.49	0.49	mg/kg	1	
4-Nitrophenol	ND	0.15	0.49	0.49	mg/kg	1	
Acenaphthene	ND	0.088	0.49	0.49	mg/kg	1	
Acenaphthylene	ND	0.088	0.49	0.49	mg/kg	1	
Aniline	ND	0.23	0.49	0.49	mg/kg	1	
Anthracene	ND	0.078	0.49	0.49	mg/kg	1	
Azobenzene/1,2-Diphenylhydrazine	ND	0.098	0.49	0.49	mg/kg	1	
Benzidine	ND	1.2	4.9	4.9	mg/kg	1	
Benzo (a) anthracene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (a) pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Benzo (b) fluoranthene	ND	0.069	0.49	0.49	mg/kg	1	
Benzo (g,h,i) perylene	ND	0.059	0.98	0.98	mg/kg	1	
Benzo (k) fluoranthene	ND	0.13	0.49	0.49	mg/kg	1	
Benzoic acid	ND	1.9	25	25	mg/kg	1	
Benzyl alcohol	ND	0.14	0.49	0.49	mg/kg	1	

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800017

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

3E30014-20 **LN06343**

Sampled: 05/29/13 09:34 **Sampled By:** Client **Matrix:** Solid

Semivolatile Organic Compounds by GC/MS

Method: EPA 8270C | Batch: W3F0001 | Prepared: 06/01/13 09:40 | Analyzed: 06/05/13 04:44 | Analyst: abj

Analyte	Result	MDL	MRL	ML	Units	Dilution	Qualifier
Bis(2-chloroethoxy)methane	ND	0.088	0.49	0.49	mg/kg	1	
Bis(2-chloroethyl)ether	ND	0.11	0.49	0.49	mg/kg	1	
Bis(2-chloroisopropyl)ether	ND	0.14	0.49	0.49	mg/kg	1	
Bis(2-ethylhexyl)phthalate	ND	0.12	0.49	0.49	mg/kg	1	
Butyl benzyl phthalate	**0.29**	0.15	0.49	0.49	mg/kg	1	J
Carbazole	ND	0.088	0.49	0.49	mg/kg	1	
Chrysene	ND	0.088	0.49	0.49	mg/kg	1	
Dibenzo (a,h) anthracene	ND	0.049	0.98	0.98	mg/kg	1	
Dibenzofuran	ND	0.088	0.49	0.49	mg/kg	1	
Diethyl phthalate	ND	0.059	0.49	0.49	mg/kg	1	
Dimethyl phthalate	ND	0.86	2.5	2.5	mg/kg	1	
Di-n-butyl phthalate	ND	0.078	0.49	0.49	mg/kg	1	
Di-n-octyl phthalate	ND	0.14	0.49	0.49	mg/kg	1	
Fluoranthene	ND	0.11	0.49	0.49	mg/kg	1	
Fluorene	ND	0.069	0.49	0.49	mg/kg	1	
Hexachlorobenzene	ND	0.078	0.49	0.49	mg/kg	1	
Hexachlorobutadiene	ND	0.088	0.49	0.49	mg/kg	1	
Hexachlorocyclopentadiene	ND	0.12	0.49	0.49	mg/kg	1	
Hexachloroethane	ND	0.069	0.49	0.49	mg/kg	1	
Indeno (1,2,3-cd) pyrene	ND	0.088	0.98	0.98	mg/kg	1	
Isophorone	ND	0.098	0.49	0.49	mg/kg	1	
Naphthalene	ND	0.11	0.49	0.49	mg/kg	1	
Nitrobenzene	ND	0.11	0.49	0.49	mg/kg	1	
N-Nitrosodimethylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodi-n-propylamine	ND	0.088	0.49	0.49	mg/kg	1	
N-Nitrosodiphenylamine	ND	0.069	0.49	0.49	mg/kg	1	
Pentachlorophenol	ND	0.16	0.49	0.49	mg/kg	1	
Phenanthrene	ND	0.078	0.49	0.49	mg/kg	1	
Phenol	ND	0.15	0.49	0.49	mg/kg	1	
Pyrene	ND	0.078	0.49	0.49	mg/kg	1	
Pyridine	ND	0.049	0.98	0.98	mg/kg	1	
Surr: 2,4,6-Tribromophenol	*59 %*	Conc:*28.9*		*40-97*	%		
Surr: 2-Fluorobiphenyl	*67 %*	Conc:*16.5*		*39-100*	%		
Surr: 2-Fluorophenol	*83 %*	Conc:*40.5*		*26-115*	%		
Surr: Nitrobenzene-d5	*71 %*	Conc:*17.4*		*49-105*	%		
Surr: Phenol-d5	*77 %*	Conc:*37.6*		*36-105*	%		
Surr: Terphenyl-d14	*73 %*	Conc:*17.9*		*36-106*	%		

800018

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

QUALITY CONTROL SECTION

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3F0001-BLK1)				Analyzed: 06/04/13 14:03						
1,2,4-Trichlorobenzene	ND	0.050	mg/kg							
1,2-Dichlorobenzene	ND	0.050	mg/kg							
1,3-Dichlorobenzene	ND	0.050	mg/kg							
1,4-Dichlorobenzene	ND	0.050	mg/kg							
2,4,5-Trichlorophenol	ND	0.050	mg/kg							
2,4,6-Trichlorophenol	ND	0.050	mg/kg							
2,4-Dichlorophenol	ND	0.050	mg/kg							
2,4-Dimethylphenol	ND	0.050	mg/kg							
2,4-Dinitrophenol	ND	2.5	mg/kg							
2,4-Dinitrotoluene	ND	0.050	mg/kg							
2,6-Dinitrotoluene	ND	0.050	mg/kg							
2-Chloronaphthalene	ND	0.050	mg/kg							
2-Chlorophenol	ND	0.050	mg/kg							
2-Methylnaphthalene	ND	0.050	mg/kg							
2-Methylphenol	ND	0.050	mg/kg							
2-Nitroaniline	ND	0.050	mg/kg							
2-Nitrophenol	ND	0.050	mg/kg							
3 & 4-Methylphenol	ND	0.050	mg/kg							
3,3'-Dichlorobenzidine	ND	0.25	mg/kg							
3-Nitroaniline	ND	0.050	mg/kg							
4,6-Dinitro-2-methylphenol	ND	0.50	mg/kg							
4-Bromophenyl phenyl ether	ND	0.050	mg/kg							
4-Chloro-3-methylphenol	ND	0.050	mg/kg							
4-Chloroaniline	ND	0.050	mg/kg							
4-Chlorophenyl phenyl ether	ND	0.050	mg/kg							
4-Nitroaniline	ND	0.050	mg/kg							
4-Nitrophenol	ND	0.050	mg/kg							
Acenaphthene	ND	0.050	mg/kg							
Acenaphthylene	ND	0.050	mg/kg							
Aniline	ND	0.050	mg/kg							
Anthracene	ND	0.050	mg/kg							
Azobenzene/1,2-Diphenylhydrazine	ND	0.050	mg/kg							
Benzidine	ND	0.50	mg/kg							
Benzo (a) anthracene	ND	0.050	mg/kg							
Benzo (a) pyrene	ND	0.050	mg/kg							
Benzo (b) fluoranthene	ND	0.050	mg/kg							
Benzo (g,h,i) perylene	ND	0.10	mg/kg							
Benzo (k) fluoranthene	ND	0.050	mg/kg							
Benzoic acid	ND	2.5	mg/kg							
Benzyl alcohol	ND	0.050	mg/kg							
Bis(2-chloroethoxy)methane	ND	0.050	mg/kg							
Bis(2-chloroethyl)ether	ND	0.050	mg/kg							
Bis(2-chloroisopropyl)ether	ND	0.050	mg/kg							
Bis(2-ethylhexyl)phthalate	0.0305	0.050	mg/kg					NR		J

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Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Blank (W3F0001-BLK1)				Analyzed: 06/04/13 14:03						
Butyl benzyl phthalate	ND	0.050	mg/kg							
Carbazole	ND	0.050	mg/kg							
Chrysene	ND	0.050	mg/kg							
Dibenzo (a,h) anthracene	ND	0.10	mg/kg							
Dibenzofuran	ND	0.050	mg/kg							
Diethyl phthalate	ND	0.050	mg/kg							
Dimethyl phthalate	ND	0.25	mg/kg							
Di-n-butyl phthalate	0.0315	0.050	mg/kg					NR		J
Di-n-octyl phthalate	ND	0.050	mg/kg							
Fluoranthene	ND	0.050	mg/kg							
Fluorene	ND	0.050	mg/kg							
Hexachlorobenzene	ND	0.050	mg/kg							
Hexachlorobutadiene	ND	0.050	mg/kg							
Hexachlorocyclopentadiene	ND	0.050	mg/kg							
Hexachloroethane	ND	0.050	mg/kg							
Indeno (1,2,3-cd) pyrene	ND	0.10	mg/kg							
Isophorone	ND	0.050	mg/kg							
Naphthalene	ND	0.050	mg/kg							
Nitrobenzene	ND	0.050	mg/kg							
N-Nitrosodimethylamine	ND	0.050	mg/kg							
N-Nitrosodi-n-propylamine	ND	0.050	mg/kg							
N-Nitrosodiphenylamine	ND	0.050	mg/kg							
Pentachlorophenol	ND	0.050	mg/kg							
Phenanthrene	ND	0.050	mg/kg							
Phenol	ND	0.050	mg/kg							
Pyrene	ND	0.050	mg/kg							
Pyridine	ND	0.10	mg/kg							
Surr: 2,4,6-Tribromophenol	*4.31*		*mg/kg*	*5.00*		*86*	*40-97*			
Surr: 2-Fluorobiphenyl	*2.47*		*mg/kg*	*2.50*		*99*	*39-100*			
Surr: 2-Fluorophenol	*7.19*		*mg/kg*	*5.00*		*144*	*26-115*			*S-11*
Surr: Nitrobenzene-d5	*2.55*		*mg/kg*	*2.50*		*102*	*49-105*			
Surr: Phenol-d5	*5.47*		*mg/kg*	*5.00*		*109*	*36-105*			*S-11*
Surr: Terphenyl-d14	*2.80*		*mg/kg*	*2.50*		*112*	*36-106*			*S-11*
LCS (W3F0001-BS1)				Analyzed: 06/04/13 14:33						
1,2,4-Trichlorobenzene	1.94	0.050	mg/kg	2.50		78	28-120	NR		
1,4-Dichlorobenzene	1.98	0.050	mg/kg	2.50		79	41-98	NR		
2,4-Dinitrotoluene	2.07	0.050	mg/kg	2.50		83	43-121	NR		
2-Chlorophenol	1.96	0.050	mg/kg	2.50		78	22-123	NR		
4-Chloro-3-methylphenol	1.88	0.050	mg/kg	2.50		75	26-126	NR		
4-Nitrophenol	1.81	0.050	mg/kg	2.50		72	17-139	NR		
Acenaphthene	2.07	0.050	mg/kg	2.50		83	44-105	NR		
N-Nitrosodi-n-propylamine	2.00	0.050	mg/kg	2.50		80	24-128	NR		
Pentachlorophenol	1.80	0.050	mg/kg	2.50		72	20-116	NR		

800021

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
LCS (W3F0001-BS1)				Analyzed: 06/04/13 14:33						
Phenol	1.82	0.050	mg/kg	2.50		73	22-123	NR		
Pyrene	2.13	0.050	mg/kg	2.50		85	42-118	NR		
Surr: 2,4,6-Tribromophenol	*3.91*		*mg/kg*	*5.00*		*78*	*40-97*			
Surr: 2-Fluorobiphenyl	*2.15*		*mg/kg*	*2.50*		*86*	*39-100*			
Surr: 2-Fluorophenol	*4.65*		*mg/kg*	*5.00*		*93*	*26-115*			
Surr: Nitrobenzene-d5	*1.99*		*mg/kg*	*2.50*		*80*	*49-105*			
Surr: Phenol-d5	*4.22*		*mg/kg*	*5.00*		*84*	*36-105*			
Surr: Terphenyl-d14	*2.35*		*mg/kg*	*2.50*		*94*	*36-106*			
Matrix Spike (W3F0001-MS1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:03						
1,2,4-Trichlorobenzene	16.2	0.49	mg/kg	24.4	ND	66	26-124	NR		
1,4-Dichlorobenzene	16.9	0.49	mg/kg	24.4	ND	69	28-117	NR		
2,4-Dinitrotoluene	19.2	0.49	mg/kg	24.4	ND	79	26-132	NR		
2-Chlorophenol	16.4	0.49	mg/kg	24.4	ND	67	24-124	NR		
4-Chloro-3-methylphenol	15.9	0.49	mg/kg	24.4	ND	65	5-153	NR		
4-Nitrophenol	17.6	0.49	mg/kg	24.4	ND	72	0.6-139	NR		
Acenaphthene	17.6	0.49	mg/kg	24.4	ND	72	33-117	NR		
N-Nitrosodi-n-propylamine	16.5	0.49	mg/kg	24.4	ND	68	20-128	NR		
Pentachlorophenol	16.9	0.49	mg/kg	24.4	0.394	68	7-125	NR		
Phenol	15.8	0.49	mg/kg	24.4	ND	65	40-120	NR		
Pyrene	20.1	0.49	mg/kg	24.4	ND	83	22-148	NR		
Surr: 2,4,6-Tribromophenol	*34.6*		*mg/kg*	*48.8*		*71*	*40-97*			
Surr: 2-Fluorobiphenyl	*17.3*		*mg/kg*	*24.4*		*71*	*39-100*			
Surr: 2-Fluorophenol	*35.6*		*mg/kg*	*48.8*		*73*	*26-115*			
Surr: Nitrobenzene-d5	*16.1*		*mg/kg*	*24.4*		*66*	*49-105*			
Surr: Phenol-d5	*34.3*		*mg/kg*	*48.8*		*70*	*36-105*			
Surr: Terphenyl-d14	*21.4*		*mg/kg*	*24.4*		*88*	*36-106*			
Matrix Spike Dup (W3F0001-MSD1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:33						
1,2,4-Trichlorobenzene	14.9	0.48	mg/kg	23.9	ND	62	26-124	8	30	
1,4-Dichlorobenzene	15.5	0.48	mg/kg	23.9	ND	65	28-117	9	30	
2,4-Dinitrotoluene	15.8	0.48	mg/kg	23.9	ND	66	26-132	19	30	
2-Chlorophenol	15.3	0.48	mg/kg	23.9	ND	64	24-124	7	30	
4-Chloro-3-methylphenol	14.4	0.48	mg/kg	23.9	ND	60	5-153	10	30	
4-Nitrophenol	13.6	0.48	mg/kg	23.9	ND	57	0.6-139	25	30	
Acenaphthene	16.0	0.48	mg/kg	23.9	ND	67	33-117	10	30	
N-Nitrosodi-n-propylamine	14.2	0.48	mg/kg	23.9	ND	59	20-128	15	30	
Pentachlorophenol	12.3	0.48	mg/kg	23.9	0.394	50	7-125	31	30	MS-05
Phenol	14.5	0.48	mg/kg	23.9	ND	61	40-120	9	30	
Pyrene	15.6	0.48	mg/kg	23.9	ND	65	22-148	25	30	
Surr: 2,4,6-Tribromophenol	*27.8*		*mg/kg*	*47.8*		*58*	*40-97*			
Surr: 2-Fluorobiphenyl	*14.9*		*mg/kg*	*23.9*		*62*	*39-100*			
Surr: 2-Fluorophenol	*31.0*		*mg/kg*	*47.8*		*65*	*26-115*			
Surr: Nitrobenzene-d5	*14.6*		*mg/kg*	*23.9*		*61*	*49-105*			
Surr: Phenol-d5	*30.1*		*mg/kg*	*47.8*		*63*	*36-105*			

800092

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Semivolatile Organic Compounds by GC/MS - Quality Control

Batch W3F0001 - EPA 8270C

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	% REC Limits	RPD	RPD Limit	Data Qualifiers
Matrix Spike Dup (W3F0001-MSD1)	**Source: 3E30014-01**			Analyzed: 06/04/13 15:33						
Surr: Terphenyl-d14	*15.7*		*mg/kg*	*23.9*		*66*	*36-106*			

Weck Laboratories, Inc 14859 East Clark Avenue, City of Industry, California 91745-1396 (626) 336-2139 FAX (626) 336-2634

800073

LADWP - Environmental Laboratory
1630 North Main Street, Bldg. 7, Rm 311
Los Angeles CA, 90012

Report ID: 3E30014
Project ID: 7600 Tyrone Ave,COC #13-1321,26, WO#

Date Received: 05/30/13 09:50
Date Reported: 06/05/13 16:04

Notes and Definitions

S-11	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogate.
MS-05	The spike recovery and/or RPD were outside acceptance limits for the MS and/or MSD due to possible matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
J	Detected but below the Reporting Limit; therefore, result is an estimated concentration.
ND	NOT DETECTED at or above the Reporting Limit. If J-value reported, then NOT DETECTED at or above the Method Detection Limit (MDL)
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
% Rec	Percent Recovery
Sub	Subcontracted analysis, original report available upon request
MDL	Method Detection Limit
MDA	Minimum Detectable Activity
MRL	Method Reporting Limit
NR	Not Reportable

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

An Absence of Total Coliform meets the drinking water standards as established by the California Department of Health Services.

The Reporting Limit (RL) is referenced as the Laboratory's Practical Quantitation Limit (PQL) or the Detection Limit for Reporting Purposes (DLR).

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

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JONES ENVIRONMENTAL, INC.

P.O. BOX 5387 | FULLERTON, CA 92838
(714) 449-9937 | FAX (714) 449-9685

JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/4/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	A-7098
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/4/2013
		Date Received:	6/4/2013
Project Name:	Tyrone	**Date Analyzed:**	6/4/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

ANALYSES REQUESTED

1. EPA 8260B - Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers. Tubing placed in the ground for soil gas sampling was purged three different times as recommended by DTSC/RWQCB regulations. This purge test determined how many purges of the soil gas tubing were needed throughout the project. One, three and ten purge volumes were analyzed to make this determination.

A tracer gas mixture of n-propanol and n-pentane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-propanol or n-pentane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min except when noted differently on the chain of custody record using a gas tight syringe. 1 purge volume was used since this purging level gave the highest results for the compound(s) of greatest interest.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for some length of time. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, Matrix Spike (MS) and Matrix Spike Duplicates (MSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity.

All samples were analyzed within 30 minutes of sampling.

Approval: 

Steve Jones, Ph.D.
Laboratory Manager

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/4/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	A-7098
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/4/2013
		Date Received:	6/4/2013
Project:	Tyrone	**Date Analyzed:**	6/4/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP3-15 1P	VP3-15 3P	VP3-15 10P	VP3-5	VP2-5		
JEL ID:	A-7098-01	A-7098-02	A-7098-03	A-7098-04	A-7098-05	Practical Quantitation Limit	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	**0.033**	**0.014**	**0.029**	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	**0.896**	**0.810**	**0.872**	**0.316**	ND	0.008	µg/L
Chloromethane	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP3-15 1P	VP3-15 3P	VP3-15 10P	VP3-5	VP2-5		
JEL ID:	A-7098-01	A-7098-02	A-7098-03	A-7098-04	A-7098-05	Practical Quantitation Limit	Units
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.008	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	**0.057**	**0.048**	**0.054**	**0.059**	ND	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	**2.83**	**2.55**	**2.89**	**2.26**	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.008	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.008	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.040	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.008	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	89%	109%	103%	105%	109%	75 - 125	
Toluene-d_8	97%	99%	93%	98/%	100%	75 - 125	
4-Bromofluorobenzene	99%	97%	97%	97%	106%	75 - 125	
	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1		

ND= Not Detected

JONES ENVIRONMENTAL, INC.
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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/4/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	A-7098
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/4/2013
		Date Received:	6/4/2013
Project:	Tyrone	**Date Analyzed:**	6/4/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP2-15	VP1-5	VP1-15	VP9-5	VP9-5 REP		
JEL ID:	A-7098-06	A-7098-07	A-7098-08	A-7098-09	A-7098-10	Practical Quantitation Limit	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	ND	0.008	µg/L
Chloromethane	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP2-15	VP1-5	VP1-15	VP9-5	VP9-5 REP		
JEL ID:	A-7098-06	A-7098-07	A-7098-08	A-7098-09	A-7098-10	Practical Quantitation Limit	Units
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.008	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.008	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.008	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.040	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.008	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	102%	102%	103%	101%	109%	75 - 125	
Toluene-d_8	107%	102%	102%	91%	103%	75 - 125	
4-Bromofluorobenzene	107%	105%	97%	93%	91%	75 - 125	
	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/4/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	A-7098
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/4/2013
		Date Received:	6/4/2013
Project:	Tyrone	**Date Analyzed:**	6/4/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP9-15	VP14-5	VP14-15	VP15-5	VP15-15		
JEL ID:	A-7098-11	A-7098-12	A-7098-13	A-7098-14	A-7098-15	Practical Quantitation Limit	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	ND	0.008	µg/L
Chloromethane	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP9-15	VP14-5	VP14-15	VP15-5	VP15-15		
JEL ID:	A-7098-11	A-7098-12	A-7098-13	A-7098-14	A-7098-15	Practical Quantitation Limit	Units
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.008	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.008	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.008	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.040	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.008	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	107%	105%	103%	103%	101%	75 - 125	
Toluene-d_8	99%	100%	105%	117%	95%	75 - 125	
4-Bromofluorobenzene	95%	101%	101%	107%	100%	75 - 125	
	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1		

ND= Not Detected

JONES ENVIRONMENTAL, INC.
P.O. Box 5387 | FULLERTON, CA 92838
(714) 449-9937 | FAX (714) 449-9685

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/4/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	A-7098
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/4/2013
		Date Received:	6/4/2013
Project:	Tyrone	**Date Analyzed:**	6/4/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP8-5	VP8-15	VP7-5	VP7-15	VP10-5		
JEL ID:	A-7098-16	A-7098-17	A-7098-18	A-7098-19	A-7098-20	Practical Quantitation Limit	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	**0.017**	ND	**0.035**	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	**0.153**	**0.454**	**0.022**	**0.363**	ND	0.008	µg/L
Chloromethane	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP8-5	VP8-15	VP7-5	VP7-15	VP10-5		
JEL ID:	A-7098-16	A-7098-17	A-7098-18	A-7098-19	A-7098-20	Practical Quantitation Limit	Units
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	**0.057**	ND	0.008	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.008	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.008	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.040	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.008	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	99%	102%	101%	113%	98%	75 - 125	
Toluene-d_8	104%	105%	95%	95%	100%	75 - 125	
4-Bromofluorobenzene	105%	101%	103%	93%	93%	75 - 125	
	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1	A2-060413-A-7098_1		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/4/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	A-7098
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/4/2013
		Date Received:	6/4/2013
Project:	Tyrone	**Date Analyzed:**	6/4/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
JEL ID:	A-7098-21	A-7098-22	Practical Quantitation Limit	Units
Analytes:				
Benzene	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	0.008	µg/L
Bromoform	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	0.008	µg/L
Chloroethane	ND	ND	0.008	µg/L
Chloroform	ND	ND	0.008	µg/L
Chloromethane	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
JEL ID:	A-7098-21	A-7098-22	Practical Quantitation Limit	Units
Analytes:				
cis-1,3-Dichloropropene	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	0.008	µg/L
Freon 113	ND	ND	0.008	µg/L
Hexachlorobutadiene	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	0.008	µg/L
Naphthalene	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	0.008	µg/L
Styrene	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	0.008	µg/L
Toluene	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	0.008	µg/L
Xylenes	ND	ND	0.008	µg/L
MTBE	ND	ND	0.008	µg/L
Ethyl-tert-butylether	ND	ND	0.008	µg/L
Di-isopropylether	ND	ND	0.008	µg/L
tert-amylmethylether	ND	ND	0.008	µg/L
tert-Butylalcohol	ND	ND	0.040	µg/L
TIC:				
n-propanol	ND	ND	0.008	µg/L
n-pentane	ND	ND	0.008	µg/L
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	100%	103%	75 - 125	
Toluene-d_8	107%	100%	75 - 125	
4-Bromofluorobenzene	109%	97%	75 - 125	
	A2-060413-A-7098_1	A2-060413-A-7098_1		

ND= Not Detected

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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Alta Environmental, Inc	**Report date:**	6/4/2013
Client Address:	3777 Long Beach Blvd. Long Beach, CA 90807	**JEL Ref. No.:**	A-7098
		Client Ref. No.:	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/4/2013
		Date Received:	6/4/2013
Project:	Tyrone	**Date Analyzed:**	6/4/2013
Project Address:	7600 Tryone Ave. Van Nuys, CA	**Physical State:**	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample Spiked: Ambient Air **GC#:** A2-060413-A-7098_1

JEL ID:	**A-7098-24**	**A-7098-25**			**A-7098-23**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	LCS	Acceptability Range (%)
1,1-Dichloroethylene	105%	107%	2.2%	70-130	105%	70-130
Benzene	96%	100%	4.6%	70-130	100%	70-130
Trichloroethylene	112%	108%	3.1%	70-130	95%	70-130
Toluene	107%	101%	5.2%	70-130	116%	70-130
Chlorobenzene	112%	113%	1.6%	70-130	100%	70-130
Surrogate Recovery:						
Dibromofluoromethane	99%	105%		75-125	113%	75-125
Toluene-d_8	109%	106%		75-125	114%	75-125
4-Bromofluorobenzene	101%	99%		75-125	103%	75-125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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Chain-of-Custody Record

Client: Alta Environmental, Inc
Project Name: Tyrone
Project Address: 7600 Tyrone Ave, Van Nuys, CA
Project Contact: Kristyn Drake

Date: 06.04.13
Client Project #: ODWP-13-1198

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

SOIL GAS
Purge Number: ☒ 1P ☐ 3P ☐ 7P ☐ 10P
Purge Rate: ~200 cc/min
Shut in Test (Y) / N
Tracer:
- ☒ n-propanol
- ☒ n-pentane
- ☐ 1,1-DFA
- ☐ Helium
- ☐ _____

JEL Project # A-7098
Page 1 of 2

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☒ no
Sealed ☒ yes ☐ no

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Analysis Requested: EPA 8260B (VOCs + OXYs)	Magnehelic Vacuum (In/H_2O)	Number of Containers	Remarks/Special Instructions
VP3-15 1P	1	643	6/4	0739	0750	A-7098-01	SG	X	<5	2	gas tight glass syringe
VP3-15 3P	3	1930	↓	0750	0804	A-7098-02	SG	X	<5	2	
VP3-15 10P	10	6433		0802	0819	A-7098-03	SG	X	<5	2	
VP3-5	1	589		0825	0833	A-7098-04	SG	X	<5	2	
VP2-5	1	589		0838	0847	A-7098-05	SG	X	<5	2	
VP2-15	1	643		0851	0901	A-7098-06	SG	X	<5	2	
VP1-5	1	589		0915	0921	A-7098-07	SG	X	<5	2	
VP1-15	1	643		0923	0935	A-7098-08	SG	X	<5	2	
VP9-5	1	589		0935	0949	A-7098-09	SG	X	<5	2	
VP9-5 REP	1	589	↓	0937	1004	A-7098-10	SG	X	<5	2	

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Total Number of Containers

❶ Relinquished by (signature)	Date 6/4/13	❷ Received by (signature)	Date 06/05/13
Company ALTA ENVIRON	Time 1300	Company Jones Environmental	Time 1300
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date
Company	Time	Company	Time

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

JONES ENVIRONMENTAL, INC.

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Fullerton, CA 92838
(714) 449-9937
Fax (714) 449-9685
www.jonesenvironmentallab.com

Chain-of-Custody Record

Client: Alta Environmental Inc
Project Name: Tyrone
Project Address: 7600 Tyrone Ave, Van Nuys, CA
Project Contact: Kristyn Drake

Date: 06.04.13
Client Project #: OPWP-13-1198

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

SOIL GAS
Purge Number: ☐ 1P ☐ 3P ☐ 7P ☐ 10P
Purge Rate: ~200 cc/min
Shut in Test (Y)/ N
Tracer:
- ☒ n-propanol
- ☒ n-pentane
- ☐ 1,1-DFA
- ☐ Helium
- ☐ ______

JEL Project # A-7098
Page 2 of 2

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☒ no
Sealed ☒ yes ☐ no

Analysis Requested

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	EPA 8260B (VOCs + Oxys)			Magnehelic Vacuum (In/H$_2$O)	Number of Containers	Remarks/Special Instructions
VP9-15	1	643	06/04	1005	1017	A-7098-11	SG	X			<5	2	gas tight glass syringe
VP14-5	1	589	↓	1017	1031	A-7098-12	SG	X			<5	2	↓
VP14-15	1	643		1033	1045	A-7098-13	SG	X			<5	2	
VP15-5	1	589		1046	1059	A-7098-14	SG	X			<5	2	
VP15-15	1	643		1055	1115	A-7098-15	SG	X			<5	2	
VP8-5	1	589		1111	1130	A-7098-16	SG	X			<5	2	
VP8-15	1	643		1126	1144	A-7098-17	SG	X			<5	2	
VP7-5	1	589		1140	1159	A-7098-18	SG	X			<5	2	
VP7-15	1	643		1155	1213	A-7098-19	SG	X			<5	2	
VP10-5	1	589	↓	1209	1228	A-7098-20	SG	X			<5	2	

① Relinquished by (signature) [signature] Company ALTA ENVIRON	Date 6/4/13 Time 1300	② Received by (signature) [signature] Company Jones Environmental	Date 6/4/13 Time 1300
③ Relinquished by (signature) Company	Date Time	④ Received by Laboratory (signature) Company	Date Time

Total Number of Containers

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

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JONES ENVIRONMENTAL, INC.

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/5/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	D-0573
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/5/2013
		Date Received:	6/5/2013
Project Name:	Tyrone	**Date Analyzed:**	6/5/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

ANALYSES REQUESTED

1. EPA 8260B - Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-propanol and n-pentane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-propanol or n-pentane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min except when noted differently on the chain of custody record using a gas tight syringe. 1 purge volume was used since previous sampling events determined this to be the appropriate purging volume.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for some length of time. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, Matrix Spike (MS) and Matrix Spike Duplicates (MSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity.

All samples were analyzed within 30 minutes of sampling.

Approval:

Steve Jones, Ph.D.
Laboratory Manager

JONES ENVIRONMENTAL, INC.
P.O. Box 5387 | FULLERTON, CA 92838
(714) 449-9937 | FAX (714) 449-9685

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/5/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	D-0573
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/5/2013
		Date Received:	6/5/2013
Project:	Tyrone	**Date Analyzed:**	6/5/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP12-5	VP12-15	VP13-5	VP13-15	VP6-5		
JEL ID:	D-0573-01	D-0573-02	D-0573-03	D-0573-04	D-0573-05	Practical Quantitation Limit	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	**0.039**	ND	ND	ND	ND	0.008	µg/L
Chloromethane	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	**0.118**	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP12-5	VP12-15	VP13-5	VP13-15	VP6-5		
JEL ID:	D-0573-01	D-0573-02	D-0573-03	D-0573-04	D-0573-05	Practical Quantitation Limit	Units
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	**0.184**	**0.529**	**0.203**	**1.13**	**0.651**	0.008	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.008	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.008	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.040	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.008	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	100%	97%	97%	103%	101%	75 - 125	
Toluene-d_8	87%	89%	91%	89%	85%	75 - 125	
4-Bromofluorobenzene	111%	101%	115%	118%	102%	75 - 125	
	D2-060513-D-0573_1	D2-060513-D-0573_1	D2-060513-D-0573_1	D2-060513-D-0573_1	D2-060513-D-0573_1		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/5/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	D-0573
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/5/2013
		Date Received:	6/5/2013
Project:	Tyrone	**Date Analyzed:**	6/5/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP6-15	VP11-5	VP11-5 REP	VP11-15	VP10-15		
JEL ID:	D-0573-06	D-0573-07	D-0573-08	D-0573-09	D-0573-10	Practical Quantitation Limit	Units
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	**0.046**	ND	ND	ND	ND	0.008	µg/L
Chloromethane	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	VP6-15	VP11-5	VP11-5 REP	VP11-15	VP10-15		
JEL ID:	D-0573-06	D-0573-07	D-0573-08	D-0573-09	D-0573-10	Practical Quantitation Limit	Units
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	**0.964**	ND	ND	**0.068**	ND	0.008	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
Xylenes	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.008	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.008	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.040	µg/L
TIC:							
n-propanol	ND	ND	ND	ND	ND	0.008	µg/L
n-pentane	ND	ND	ND	ND	ND	0.008	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	95%	98%	97%	91%	101%	75 - 125	
Toluene-d_8	88%	96%	83%	93%	86%	75 - 125	
4-Bromofluorobenzene	117%	105%	106%	117%	118%	75 - 125	
	D2-060513-D-0573_1	D2-060513-D-0573_1	D2-060513-D-0573_1	D2-060513-D-0573_1	D2-060513-D-0573_1		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental, Inc	**Report date:**	6/5/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	D-0573
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/5/2013
		Date Received:	6/5/2013
Project:	Tyrone	**Date Analyzed:**	6/5/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK	Practical Quantitation Limit	Units
JEL ID:	D-0573-11	D-0573-12		
Analytes:				
Benzene	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	0.008	µg/L
Bromoform	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	0.008	µg/L
Chloroethane	ND	ND	0.008	µg/L
Chloroform	ND	ND	0.008	µg/L
Chloromethane	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	0.008	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK	Practical Quantitation Limit	Units
JEL ID:	D-0573-11	D-0573-12		
Analytes:				
cis-1,3-Dichloropropene	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	0.008	µg/L
Freon 113	ND	ND	0.008	µg/L
Hexachlorobutadiene	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	0.008	µg/L
Naphthalene	ND	ND	0.008	µg/L
n-Propylbenzene	ND	ND	0.008	µg/L
Styrene	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.008	µg/L
Tetrachloroethylene	ND	ND	0.008	µg/L
Toluene	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.008	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	0.008	µg/L
Trichloroethylene	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	0.008	µg/L
Xylenes	ND	ND	0.008	µg/L
MTBE	ND	ND	0.008	µg/L
Ethyl-tert-butylether	ND	ND	0.008	µg/L
Di-isopropylether	ND	ND	0.008	µg/L
tert-amylmethylether	ND	ND	0.008	µg/L
tert-Butylalcohol	ND	ND	0.040	µg/L
TIC:				
n-propanol	ND	ND	0.008	µg/L
n-pentane	ND	ND	0.008	µg/L
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	80%	98%	75 - 125	
Toluene-d_8	116%	110%	75 - 125	
4-Bromofluorobenzene	95%	91%	75 - 125	
	D2-060513-D-0573_1	D2-060513-D-0573_1		

ND= Not Detected

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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Alta Environmental, Inc	**Report date:**	6/5/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	D-0573
	Long Beach, CA 90807	**Client Ref. No.:**	ODWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/5/2013
		Date Received:	6/5/2013
Project:	Tyrone	**Date Analyzed:**	6/5/2013
Project Address:	7600 Tryone Ave.	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample Spiked: Ambient Air **GC#:** D2-060513-D-0573_1

JEL ID:	**D-0573-14**	**D-0573-15**			**D-0573-13**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	LCS	Acceptability Range (%)
1,1-Dichloroethylene	108%	111%	2.6%	70-130	96%	70-130
Benzene	102%	105%	2.7%	70-130	103%	70-130
Trichloroethylene	98%	106%	7.5%	70-130	105%	70-130
Toluene	104%	111%	6.9%	70-130	105%	70-130
Chlorobenzene	102%	110%	7.9%	70-130	111%	70-130
Surrogate Recovery:						
Dibromofluoromethane	81%	81%		75-125	83%	75-125
Toluene-d_8	104%	112%		75-125	103%	75-125
4-Bromofluorobenzene	89%	89%		75-125	93%	75-125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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Chain-of-Custody Record

Client: Alta Environmental Inc
Project Name: Tyrone
Project Address: 7600 Tyrone Ave, Van Nuys, CA
Project Contact: Kristyn Drake

Date: 06.05.13
Client Project #: DDWP-13-11978

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☐ Normal
- ☒ Mobile Lab

SOIL GAS
Purge Number: ☒ 1P ☐ 3P ☐ 7P ☐ 10P
Purge Rate: ~200 cc/min
Shut in Test (Y) / N
Tracer:
- ☒ n-propanol
- ☒ n-pentane
- ☐ 1,1-DFA
- ☐ Helium
- ☐ _____

JEL Project # D-0573
Page 1 of 1

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☒ no
Sealed ☒ yes ☐ no

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Sample Matrix: Soil (S), Sludge (SL), Aqueous (A), Soil Gas (SG)	Analysis Requested: EPA 8260B (VOCs + Oxy)	Magnehelic Vacuum (in/H_2O)	Number of Containers	Remarks/Special Instructions
VP12-5	1	589	6/5	0739	0747	D-0573-01	SG	X	<5	2	gas tight glass syringe
VP12-15	1	643	"	0751	0803	D-0573-02	SG	X	<5	2	
VP13-5	1	589	"	0806	0817	D-0573-03	SG	X	<5	2	
VP13-15	1	643	"	0820	0832	D-0573-04	SG	X	<5	2	
VP6-5	1	589	"	0835	0847	D-0573-05	SG	X	<5	2	
VP6-15	1	643	"	0850	0903	D-0573-06	SG	X	<5	2	
VP11-5	1	589	"	0926	0943	D-0573-07	SG	X	<5	2	
VP11-5 REP	1	589	"	0928	0958	D-0573-08	SG	X	<5	2	
VP11-15	1	643	"	1002	1012	D-0573-09	SG	X	<5	2	
VP10-5	1	643	"	1016	1026	D-0573-10	SG	X	<5	2	

Total Number of Containers: 9

❶ Relinquished by (signature)	Date 6/5/13	❷ Received by (signature)	Date 06/05/13
Company ALTA ENVIRONMENTAL	Time 1100	Company Jones Environmental	Time 1100
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date
Company	Time	Company	Time

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

JONES ENVIRONMENTAL, INC.

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JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Alta Environmental	**Report date:**	6/14/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	ST-6995
	Long Beach, CA 90807	**Client Ref. No.:**	LDWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/12/2013
		Date Received:	6/12/2013
Project Name:	Tyrone Property	**Date Analyzed:**	6/13/2013
Project Address:	1600 Tyrone Ave	**Physical State:**	Soil Gas
	Van Nuys, CA		

ANALYSES REQUESTED

1. EPA 8260B - Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in one liter summa canisters.

The sampling rate was approximately 200 cc/min except when noted differently on the chain of custody record using a gas tight syringe. 1 purge volume was used.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for some length of time. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, Matrix Spike (MS) and Matrix Spike Duplicates (MSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity.

All samples were analyzed within 30 minutes of sampling.

Approval:

Steve Jones, Ph.D.
Laboratory Manager

JONES ENVIRONMENTAL, INC.

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental	**Report date:**	6/14/2013
Client Address:	3777 Long Beach Blvd. Long Beach, CA 90807	**JEL Ref. No.:** **Client Ref. No.:**	ST-6995 LDWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/12/2013
		Date Received:	6/12/2013
Project:	Tyrone Property	**Date Analyzed:**	6/13/2013
Project Address:	1600 Tyrone Ave Van Nuys, CA	**Physical State:**	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV16-5'	SV16-15'	SV16-5' REP		
JEL ID:	ST-6995-01	ST-6995-02	ST-6995-03	Practical Quantitation Limit	Units
Analytes:					
Benzene	ND	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	ND	0.020	µg/L
Bromoform	ND	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	ND	0.020	µg/L
Chloroethane	ND	ND	ND	0.020	µg/L
Chloroform	ND	ND	ND	0.020	µg/L
Chloromethane	ND	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	ND	0.020	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	SV16-5'	SV16-15'	SV16-5' REP		
JEL ID:	ST-6995-01	ST-6995-02	ST-6995-03	Practical Quantitation Limit	Units
Analytes:					
cis-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	ND	0.020	µg/L
Freon 113	ND	ND	ND	0.020	µg/L
Hexachlorobutadiene	ND	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	ND	0.020	µg/L
Naphthalene	ND	ND	ND	0.020	µg/L
n-Propylbenzene	ND	ND	ND	0.020	µg/L
Styrene	ND	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	0.020	µg/L
Tetrachloroethylene	ND	ND	ND	0.020	µg/L
Toluene	ND	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	0.020	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	ND	0.020	µg/L
Trichloroethylene	ND	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	ND	0.020	µg/L
Xylenes	ND	ND	ND	0.020	µg/L
MTBE	ND	ND	ND	0.020	µg/L
Ethyl-tert-butylether	ND	ND	ND	0.020	µg/L
Di-isopropylether	ND	ND	ND	0.020	µg/L
tert-amylmethylether	ND	ND	ND	0.020	µg/L
tert-Butylalcohol	ND	ND	ND	0.100	µg/L
TIC:					
n-propanol	ND	ND	ND	0.020	µg/L
n-pentane	ND	ND	ND	0.020	µg/L
Dilution Factor	1	1	1		
Surrogate Recoveries:				**QC Limits**	
Dibromofluoromethane	95%	95%	99%	75 - 125	
Toluene-d_8	96%	91%	96%	75 - 125	
4-Bromofluorobenzene	94%	86%	95%	75 - 125	
	B1-061313-ST-6995	B1-061313-ST-6995	B1-061313-ST-6995		

ND= Not Detected

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JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Alta Environmental	**Report date:**	6/14/2013
Client Address:	3777 Long Beach Blvd.	**JEL Ref. No.:**	ST-6995
	Long Beach, CA 90807	**Client Ref. No.:**	LDWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/12/2013
		Date Received:	6/12/2013
Project:	Tyrone Property	**Date Analyzed:**	6/13/2013
Project Address:	1600 Tyrone Ave	**Physical State:**	Soil Gas
	Van Nuys, CA		

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
JEL ID:	ST-6995-04	ST-6995-05	Practical Quantitation Limit	Units
Analytes:				
Benzene	ND	ND	0.020	µg/L
Bromobenzene	ND	ND	0.020	µg/L
Bromodichloromethane	ND	ND	0.020	µg/L
Bromoform	ND	ND	0.020	µg/L
n-Butylbenzene	ND	ND	0.020	µg/L
sec-Butylbenzene	ND	ND	0.020	µg/L
tert-Butylbenzene	ND	ND	0.020	µg/L
Carbon tetrachloride	ND	ND	0.020	µg/L
Chlorobenzene	ND	ND	0.020	µg/L
Chloroethane	ND	ND	0.020	µg/L
Chloroform	ND	ND	0.020	µg/L
Chloromethane	ND	ND	0.020	µg/L
2-Chlorotoluene	ND	ND	0.020	µg/L
4-Chlorotoluene	ND	ND	0.020	µg/L
Dibromochloromethane	ND	ND	0.020	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.020	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.020	µg/L
Dibromomethane	ND	ND	0.020	µg/L
1,2- Dichlorobenzene	ND	ND	0.020	µg/L
1,3-Dichlorobenzene	ND	ND	0.020	µg/L
1,4-Dichlorobenzene	ND	ND	0.020	µg/L
Dichlorodifluoromethane	ND	ND	0.020	µg/L
1,1-Dichloroethane	ND	ND	0.020	µg/L
1,2-Dichloroethane	ND	ND	0.020	µg/L
1,1-Dichloroethene	ND	ND	0.020	µg/L
cis-1,2-Dichloroethene	ND	ND	0.020	µg/L
trans-1,2-Dichloroethene	ND	ND	0.020	µg/L
1,2-Dichloropropane	ND	ND	0.020	µg/L
1,3-Dichloropropane	ND	ND	0.020	µg/L
2,2-Dichloropropane	ND	ND	0.020	µg/L
1,1-Dichloropropene	ND	ND	0.020	µg/L

ND= Not Detected

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
JEL ID:	ST-6995-04	ST-6995-05	Practical Quantitation Limit	Units
Analytes:				
cis-1,3-Dichloropropene	ND	ND	0.020	µg/L
trans-1,3-Dichloropropene	ND	ND	0.020	µg/L
Ethylbenzene	ND	ND	0.020	µg/L
Freon 113	ND	ND	0.020	µg/L
Hexachlorobutadiene	ND	ND	0.020	µg/L
Isopropylbenzene	ND	ND	0.020	µg/L
4-Isopropyltoluene	ND	ND	0.020	µg/L
Methylene chloride	ND	ND	0.020	µg/L
Naphthalene	ND	ND	0.020	µg/L
n-Propylbenzene	ND	ND	0.020	µg/L
Styrene	ND	ND	0.020	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.020	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.020	µg/L
Tetrachloroethylene	ND	ND	0.020	µg/L
Toluene	ND	ND	0.020	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.020	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.020	µg/L
1,1,1-Trichloroethane	ND	ND	0.020	µg/L
1,1,2-Trichloroethane	ND	ND	0.020	µg/L
Trichloroethylene	ND	ND	0.020	µg/L
Trichlorofluoromethane	ND	ND	0.020	µg/L
1,2,3-Trichloropropane	ND	ND	0.020	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.020	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.020	µg/L
Vinyl chloride	ND	ND	0.020	µg/L
Xylenes	ND	ND	0.020	µg/L
MTBE	ND	ND	0.020	µg/L
Ethyl-tert-butylether	ND	ND	0.020	µg/L
Di-isopropylether	ND	ND	0.020	µg/L
tert-amylmethylether	ND	ND	0.020	µg/L
tert-Butylalcohol	ND	ND	0.100	µg/L
TIC:				
n-propanol	ND	ND	0.020	µg/L
n-pentane	ND	ND	0.020	µg/L
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	98%	98%	75 - 125	
Toluene-d_8	101%	96%	75 - 125	
4-Bromofluorobenzene	100%	99%	75 - 125	
	B1-061313-ST-6995	B1-061313-ST-6995		

ND= Not Detected

JONES ENVIRONMENTAL, INC.

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JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Alta Environmental	**Report date:**	6/14/2013
Client Address:	3777 Long Beach Blvd. Long Beach, CA 90807	**JEL Ref. No.:**	ST-6995
		Client Ref. No.:	LDWP-13-1198
Attn:	Steve Morrill	**Date Sampled:**	6/12/2013
		Date Received:	6/12/2013
Project:	Tyrone Property	**Date Analyzed:**	6/13/2013
Project Address:	1600 Tyrone Ave Van Nuys, CA	**Physical State:**	Soil Gas

EPA 8260B-Volatile Organics by GC/MS + Oxygenates

Sample Spiked: Ambient Air **GC#:** B1-061313-ST-6995

JEL ID:	**ST-6995-07**	**ST-6995-08**			**ST-6995-06**	
Parameter	MS Recovery (%)	MSD Recovery (%)	RPD	Acceptability Range (%)	LCS	Acceptability Range (%)
1,1-Dichloroethylene	71%	67%	6.3%	70-130	76%	70-130
Benzene	100%	107%	6.1%	70-130	106%	70-130
Trichloroethylene	96%	98%	1.9%	70-130	100%	70-130
Toluene	98%	100%	2.7%	70-130	106%	70-130
Chlorobenzene	97%	101%	4.4%	70-130	104%	70-130
Surrogate Recovery:						
Dibromofluoromethane	98%	96%		75-125	84%	75-125
Toluene-d_8	97%	96%		75-125	101%	75-125
4-Bromofluorobenzene	98%	98%		75-125	82%	75-125

Method Blank = Not Detected

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

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Chain-of-Custody Record

Client: Alta Environmental
Project Name: Tyrone Property
Project Address: 16000 Tyrone Ave, Van Nuys, CA
Project Contact: Kristyn Drake

Date: 6/12/13
Client Project #: LDWP-13-1198

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24-48 Hours
- ☐ Rush 72-96 Hours
- ☒ Normal
- ☐ Mobile Lab

SOIL GAS
Purge Number: ☒ 1P ☐ 3P ☐ 7P ☐ 10P
Purge Rate: 200 cc/min
Shut in Test Y / N
Tracer:
- ☐ n-propanol
- ☐ n-pentane
- ☐ 1,1-DFA
- ☐ Helium
- ☐ _____

JEL Project #: ST6995
Page 1 of 1

Lab Use Only
Sample Condition as Received:
Chilled ☐ yes ☐ no
Sealed ☐ yes ☐ no

Analysis Requested: Sample Matrix: Soil (S), Sludge (Sl), Aqueous (A), Soil Gas (SG) | 8260B - VOCs | Magnehelic Vacuum (in/H2O) | Number of Containers

Sample ID	Purge Number	Purge Volume	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample Number	Matrix	8260B - VOCs	Magnehelic Vacuum (in/H2O)	Number of Containers	Remarks/Special Instructions
SV16-5'		1	6/12/13	1422			SG	X	-5	1	SUMMA (S#: 1490)
SV16-15'		1		1410	~~1410~~ (KD)		SG	X	-5	1	SUMMA
SV16-5' REP		1		1428			SG	X	-5	1	SUMMA

❶ Relinquished by (signature)	Date 6/12/13	❷ Received by (signature)	Date 6/12/13	3	Total Number of Containers
Company Alta Environmental	Time 1415	Company JEL	Time 1415		
❸ Relinquished by (signature)	Date	❹ Received by Laboratory (signature)	Date		
Company	Time	Company	Time		

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specified above under the Terms and Conditions set forth on the back hereof.

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B1
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0825		B1-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0827		B1-2'						0.0	
0830		B1-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B2
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0930		B2-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0932		B2-2'						0.0	
0934		B2-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B3
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0920		B3-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0922		B3-2'						0.0	
0924		B3-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B4
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0910		B4-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0912		B4-2'						0.0	
0914		B4-3'						0.0	
				5					Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B5
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1030		B5-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1032		B5-2'						0.0	
1034		B5-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B6
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1000		B6-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1002		B6-2'						0.0	
1004		B6-3'						0.0	
				5					Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B7
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1040		B7-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1042		B7-2'						0.0	
1044		B7-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B8
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1010		B8-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1012		B8-2'						0.0	
1014		B8-3'						0.0	
				5					Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B9
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1100		B9-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1102		B9-2'						0.0	
1104		B9-3'						0.0	
				5					Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B10
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1110		B10-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1112		B10-2'						0.0	
1114		B10-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B11
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1210		B11-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1212		B11-2'						0.0	
1214		B11-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B12
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1300		B12-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1302		B12-2'						0.0	
1304		B12-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B13
DATE DRILLED 5/29/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0745		B13-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0747		B13-2'						0.0	
0749		B13-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B14
DATE DRILLED 5/29/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0840		B14-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0842		B14-2'						0.0	
0844		B14-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B15
DATE DRILLED 5/29/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0800		B15-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0802		B15-2'						0.0	
0804		B15-3'						0.0	
				5					Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B16
DATE DRILLED 5/29/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0810		B16-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0812		B16-2'						0.0	
0814		B16-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B17
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1306		B17-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1308		B17-2'						0.0	
1310		B17-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B18
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0950		B18-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0952		B18-2'						0.0	
0954		B18-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B19
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0810		B19-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0812		B19-2'						0.0	
0814		B19-3'						0.0	
				5					Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B20
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1050		B20-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1052		B20-2'						0.0	
1054		B20-3'						0.0	
				5					Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B21
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0800		B21-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0802		B21-2'						0.0	
0804		B21-3'						0.0	
				5					Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B22
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0850		B22-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0852		B22-2'						0.0	
0854		B22-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B23
DATE DRILLED 5/29/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0830		B23-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0832		B23-2'						0.0	
0834		B23-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B24
DATE DRILLED 5/29/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0906		B24-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0908		B24-2'						0.0	
0910		B24-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B25
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0900		B25-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0902		B25-2'						0.0	
0904		B25-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B26
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0940		B26-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0942		B26-2'						0.0	
0944		B26-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B27
DATE DRILLED 5/29/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0900		B27-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0902		B27-2'						0.0	
0904		B27-3'						0.0	
				5					Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B28
DATE DRILLED 5/29/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
0930		B28-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
0932		B28-2'						0.0	
0934		B28-3'						0.0	
				5					Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B29
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1020		B29-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1022		B29-2'						0.0	
1024		B29-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 3 **WELL DEPTH (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER B30
DATE DRILLED 5/28/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
1130		B30-1'			MLS			0.0	**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
1132		B30-2'						0.0	
1134		B30-3'		5				0.0	Boring Terminated at 3' bgs. No Groundwater Encountered.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP1
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		0	AC		1/4" Nylaflow Tubing (typical)		**3" Asphalt**
					MLS		Dry granular bentonite (typical)		**Sandy Silt**, very fine grained sand, light to medium brown, dry, medium dense, no staining, no odor
				5			Sand pack (#3 Sand - typical)		**Silt**, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor
					ML				
				10			Seal (hydrated bentonite chips - typical)		(Gradual change to light brown with depth)
				15			1/4" Soil-gas implant (typical)		Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP2
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		0	MLS		1/4" Nylaflow Tubing (typical); Dry granular bentonite (typical); Sand pack (#3 Sand - typical)		**Sandy Silt**, very fine grained sand, light to medium brown, dry, medium dense, no staining, no odor
				5	ML		Seal (hydrated bentonite chips - typical); 1/4" Soil-gas implant (typical)		**Silt**, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor (Gradual change to light brown with depth) Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				10					
				15					
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP3
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		0	AC		1/4" Nylaflow Tubing (typical)		**3" Asphalt**
					MLS		Dry granular bentonite (typical)		**Sandy Silt**, very fine grained sand, light to medium brown, dry, medium dense, no staining, no odor
				5			Sand pack (#3 Sand - typical)		**Silt**, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor
					ML				
				10			Seal (hydrated bentonite chips - typical)		(Gradual change to light brown with depth)
				15			1/4" Soil-gas implant (typical)		Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP4
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		0	AC		1/4" Nylaflow Tubing (typical)		**3" Asphalt**
					MLS		Dry granular bentonite (typical)		**Sandy Silt**, very fine grained sand, light to medium brown, dry, medium dense, no staining, no odor
				5			Sand pack (#3 Sand - typical)		
					ML		Seal (hydrated bentonite chips - typical)		**Silt**, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor
				10					
				15			1/4" Soil-gas implant (typical)		Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP5
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		0	AC		1/4" Nylaflow Tubing (typical)		**3" Asphalt**
					MLS		Dry granular bentonite (typical)		**Sandy Silt**, very fine grained sand, light to medium brown, dry, medium dense, no staining, no odor
				5			Sand pack (#3 Sand - typical)		
									Silt, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor
					ML				
				10			Seal (hydrated bentonite chips - typical)		
				15			1/4" Soil-gas implant (typical)		Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP6
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		0	AC		1/4" Nylaflow Tubing (typical)		**3" Asphalt**
									Sandy Silt, very fine grained sand, trace coarse grains, medium brown, dry, medium dense, no staining, no odor
							Dry granular bentonite (typical)		
					MLS		Sand pack (#3 Sand - typical)		
				5					
					ML				**Silt**, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor
					MLS				**Sandy Silt**, very fine grained sand, trace coarse grains, medium brown, dry, medium dense, no staining, no odor
				10			Seal (hydrated bentonite chips - typical)		
					ML				**Silt**, trace very fine grained sand, trace coarse grains, medium dense, medium to light brown, dry, no staining, no odor
									Same as above, ~2" layer of medium angular gravel at 13' bgs.
							1/4" Soil-gas implant (typical)		
				15					Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP7
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		0			1/4" Nylaflow Tubing (typical)		**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
							Dry granular bentonite (typical)		
							Sand pack (#3 Sand - typical)		
				5	MLS				Same as above, trace small gravel and coarse grains
				10			Seal (hydrated bentonite chips - typical)		
					ML				**Silt**, trace very fine grained sand, dense, medium to light brown, dry, no staining, no odor
				15			1/4" Soil-gas implant (typical)		Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198 | **BORING/WELL NUMBER** VP8

PROJECT NAME LADWP Tyrone Site | **DATE DRILLED** 5/30/13

LOCATION 7600 Tyrone Avenue, Van Nuys, California | **CASING DIAMETER/TYPE** NA

DRILLING METHOD Geoprobe | **SLOT SIZE** NA | **SCREEN INTERVAL** NA

SAMPLING METHOD Continuous Core | **GRAVEL PACK TYPE** NA

BORING DIAMETER 2.25" | **DRILLING CONTRACTOR** Interphase Environmental, Inc.

BORING DEPTH (FT BGS) 15 | **WELL DEPTH (FT BGS)** 5' and 15' | **DEPTH TO WATER DURING DRILLING (FT BGS)** NA

LOGGED BY K.Drake | **CHECKED BY** S. Ridenour | **DEPTH TO WATER AFTER INSTALLATION (FT BGS)** NA

REMARKS

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
				0	AC		1/4" Nylaflow Tubing (typical)		**3" Asphalt** **Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
							Dry granular bentonite (typical)		
							Sand pack (#3 Sand - typical)		
		No Soil Samples Collected		5	MLS				Same as above, trace small gravel and coarse grains
				10			Seal (hydrated bentonite chips - typical)		
					ML		1/4" Soil-gas implant (typical)		**Silt**, trace very fine grained sand, dense, medium to light brown, dry, no staining, no odor
				15					Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP9
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		0	MLS		1/4" Nylaflow Tubing (typical); Dry granular bentonite (typical); Sand pack (#3 Sand - typical)		**Sandy Silt**, very fine grained sand, light to medium brown, dry, medium dense, no staining, no odor
				5					
				10	ML		Seal (hydrated bentonite chips - typical)		**Silt**, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor
				15			1/4" Soil-gas implant (typical)		Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP10
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		5	MLS		1/4" Nylaflow Tubing (typical); Dry granular bentonite (typical); Sand pack (#3 Sand - typical)		**Sandy Silt**, very fine grained sand, light to medium brown, dry, loose, no staining, no odor
				10	SW		Seal (hydrated bentonite chips - typical)		**Well Graded Sand** medium brown, dry, loose, no staining, no odor
				15	ML		1/4" Soil-gas implant (typical)		**Silt**, trace very fine grained sand, loose, medium to light brown, dry, no staining, no odor
				20					Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP11
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		5	MLS		1/4" Nylaflow Tubing (typical); Dry granular bentonite (typical); Sand pack (#3 Sand - typical)		**Sandy Silt**, very fine grained sand, light to medium brown, dry, loose, no staining, no odor
				10	SW		Seal (hydrated bentonite chips - typical)		**Well Graded Sand** medium brown, dry, loose, no staining, no odor
				15	ML		1/4" Soil-gas implant (typical)		**Silt**, trace very fine grained sand, loose, medium to light brown, dry, no staining, no odor
				20					Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP12
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		5	MLS		1/4" Nylaflow Tubing (typical); Dry granular bentonite (typical); Sand pack (#3 Sand - typical)		**Sandy Silt**, very fine grained sand, trace coarse grains, medium brown, dry, medium dense, no staining, no odor
					ML				**Silt**, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor
					MLS				**Sandy Silt**, very fine grained sand, trace coarse grains, medium brown, dry, medium dense, no staining, no odor
				10	ML		Seal (hydrated bentonite chips - typical)		**Silt**, trace very fine grained sand, trace coarse grains, medium dense, medium to light brown, dry, no staining, no odor
				15			1/4" Soil-gas implant (typical)		Same as above, layer of medium angular gravel at 14' bgs.
				20					Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
BORING/WELL NUMBER VP13
PROJECT NAME LADWP Tyrone Site
DATE DRILLED 5/30/13
LOCATION 7600 Tyrone Avenue, Van Nuys, California
CASING DIAMETER/TYPE NA
DRILLING METHOD Geoprobe
SLOT SIZE NA **SCREEN INTERVAL** NA
SAMPLING METHOD Continuous Core
GRAVEL PACK TYPE NA
BORING DIAMETER 2.25"
DRILLING CONTRACTOR Interphase Environmental, Inc.
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15' **DEPTH TO WATER DURING DRILLING (FT BGS)** NA
LOGGED BY K.Drake **CHECKED BY** S. Ridenour **DEPTH TO WATER AFTER INSTALLATION (FT BGS)** NA
REMARKS

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		5	MLS		1/4" Nylaflow Tubing (typical); Dry granular bentonite (typical); Sand pack (#3 Sand - typical)		**Sandy Silt**, very fine grained sand, trace coarse grains, medium brown, dry, medium dense, no staining, no odor
					ML				**Silt**, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor
					MLS				**Sandy Silt**, very fine grained sand, trace coarse grains, medium brown, dry, medium dense, no staining, no odor
				10	ML		Seal (hydrated bentonite chips - typical)		**Silt**, trace very fine grained sand, trace coarse grains, medium dense, medium to light brown, dry, no staining, no odor
				15			1/4" Soil-gas implant (typical)		Same as above, layer of medium angular gravel at 14' bgs.
				20					Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP14
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		0	AC		1/4" Nylaflow Tubing (typical)		**4" Asphalt**
					MLS		Dry granular bentonite (typical)		**Sandy Silt**, very fine grained sand, light to medium brown, dry, medium dense, no staining, no odor
				5			Sand pack (#3 Sand - typical)		
									Silt, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor
					ML				
				10			Seal (hydrated bentonite chips - typical)		
							1/4" Soil-gas implant (typical)		
				15					Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP15
DATE DRILLED 5/30/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		0	AC		1/4" Nylaflow Tubing (typical)		**4" Asphalt**
					MLS		Dry granular bentonite (typical)		**Sandy Silt**, very fine grained sand, light to medium brown, dry, medium dense, no staining, no odor
				5			Sand pack (#3 Sand - typical)		
									Silt, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor
					ML				
				10			Seal (hydrated bentonite chips - typical)		
							1/4" Soil-gas implant (typical)		
				15					Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13

ALTA ENVIRONMENTAL

Boring Log

PROJECT NUMBER LDWP-13-1198
PROJECT NAME LADWP Tyrone Site
LOCATION 7600 Tyrone Avenue, Van Nuys, California
DRILLING METHOD Geoprobe
SAMPLING METHOD Continuous Core
BORING DIAMETER 2.25"
BORING DEPTH (FT BGS) 15 **WELL DEPTH (FT BGS)** 5' and 15'
LOGGED BY K.Drake **CHECKED BY** S. Ridenour
REMARKS

BORING/WELL NUMBER VP16
DATE DRILLED 6/12/13
CASING DIAMETER/TYPE NA
SLOT SIZE NA **SCREEN INTERVAL** NA
GRAVEL PACK TYPE NA
DRILLING CONTRACTOR Interphase Environmental, Inc.
DEPTH TO WATER DURING DRILLING (FT BGS) NA
DEPTH TO WATER AFTER INSTALLATION (FT BGS) NA

TIME	BLOW COUNT	SAMPLE ID.	SAMPLE INTERVAL	DEPTH (BGS)	U.S.C.S.	GRAPHIC LOG	WELL DIAGRAM	PID (ppm)	LITHOLOGIC DESCRIPTION
		No Soil Samples Collected		0	MLS		1/4" Nylaflow Tubing (typical); Dry granular bentonite (typical); Sand pack (#3 Sand - typical)		**Sandy Silt**, very fine grained sand, trace medium grains, medium brown, dry, no staining, no odor
				5					
				10	ML		Seal (hydrated bentonite chips - typical)		**Silt**, trace very fine grained sand, medium dense, medium to light brown, dry, no staining, no odor
				15			1/4" Soil-gas implant (typical)		Boring Terminated at 15' bgs. No Groundwater Encountered. Soil vapor probes installed at 5' and 15' bgs.
				20					

WELL-MODIFIED LDWP-13-1198.GPJ WELL.GDT 6/20/13