

BUTTNER PROPERTIES, INC.

PROPERTY DEVELOPMENT • REAL ESTATE INVESTMENT • PROPERTY MANAGEMENT

600 West Grand Avenue, Oakland, California 94612

Telephone (510) 832-3456 • Facsimile (510) 465-4670

Email: Buttner@value.net

December 16, 2013

RECEIVED

By Alameda County Environmental Health at 4:32 pm, Dec 30, 2013

Alameda County Environmental Health Services
Local Oversight Program
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Attention: Ms. Dilan Roe, LOP Program Manager

RE: 2250 Telegraph Avenue
Oakland, California

Dear Ms. Roe:

The "Site Remediation Completion Report, 2250 Telegraph Ave, Oakland, CA 94612 dated December 2013" ("Report") was prepared by our consultant, Applied Water Resources ("AWR"), who we believe to be experienced and qualified to advise us in a technical area that requires a high degree of professional expertise. Therefore we have relied upon AWR's assistance, knowledge and expertise in their preparation of the Report. I am unaware of any material inaccuracy in the information in the Report or of any violation of government guidelines that are applicable to the Report. Accordingly, I am not aware of any reason to question the conclusions and recommendations contained in the Report.

This letter is submitted pursuant to the requirements of California Water Code Section 13267(b)(1).

I declare under penalty of perjury that the foregoing is true and correct to the best of my knowledge.

Sincerely,



Marianne Robison
President

SITE REMEDIATION COMPLETION REPORT

2250 Telegraph Ave, Oakland, CA 94612
Dave's Station

Fuel Leak Case No. RO0000359
GeoTracker Global ID To600100431

December 2013



SITE REMEDIATION COMPLETION REPORT

2250 Telegraph Ave, Oakland, CA 94612
Dave's Station

Fuel Leak Case No. RO0000359
GeoTracker Global ID To600100431

December 2013

Prepared on behalf of:
Buttner Properties, Inc.
600 W. Grand Ave, Oakland, CA 94612



Prepared by:
Applied Water Resources Corporation
1600 Riviera Avenue, Suite 310, Walnut Creek, CA 94596


Steven Michelson, PG
Principal

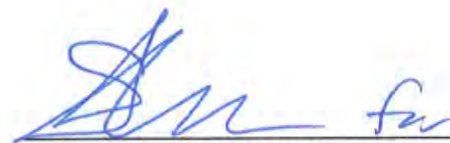

Yola Bayram
Project Geologist



Table of Contents

- 1. INTRODUCTION 1
- 2. BACKGROUND 1
 - 2.1 Site Setting 1
 - 2.2 Site History 2
- 3. FIELD WORK 2
 - 3.1 Soil Excavation of the Former Waste Oil UST Area 3
 - 3.2 Soil Excavation of the Former Gasoline UST Area 3
 - 3.3 Ground Water Removal 3
 - 3.4 Sample Handling and Analysis 4
 - 3.5 Waste Disposal 4
 - 3.6 Excavation Backfill 4
- 4. DISCUSSION 5
 - 4.1 Quality of Soil Remaining in Recent Excavations 5
 - 4.2 Ground Water Quality 5
 - 4.3 Soil Gas Quality 6
- 5. RECOMMENDATIONS 6
- 6. REFERENCES 7



Tables

Table 1 - Soil Sampling Analytical Results from Excavation 1

Table 2 - Soil Sampling Analytical Results from Excavation 2

Figures

Figure 1 – Site Location Map

Figure 2 – Excavation Plan View

Figure 3 – Cross Section Locations

Figure 4 – Cross Section A-A' Excavation 1

Figure 5 – Cross Section B-B' Excavation 1

Figure 6 – Cross Section C-C' Excavation 2

Figure 7 – Cross Section D-D' Excavation 2

Figure 8 – Monitor Well and Soil Gas Well Locations

Appendices

Appendix A – Tables and Figures from Previous Efforts

Appendix B – Photographs

Appendix C – Analytical Laboratory Reports

Appendix D – Waste Manifests

Summary of Terms

AWR – Applied Water Resources Corporation

ACEH – Alameda County Department of
Environmental Health

bgs – Below Ground Surface

BTEX – Benzene, Toluene, Ethylbenzene and
Xylenes

CAP – Corrective Action Plan

EPA – Environmental Protection Agency

ESL – Environmental Screening Levels

LTCP – Low-Threat Underground Storage Tank
Case Closure Policy

ORC – Oxygen Releasing Compound

PAH – Polycyclic Aromatic Hydrocarbon

PCBs – Polychlorinated Biphenyls

PID – Photo Ionization Detector

SF Bay RWQCB – San Francisco Bay Regional
Water Quality Control Board

SVOCs – Semi-volatile Organic Compounds

SWRCB – State Water Resources Control Board

TPH – Total Petroleum Hydrocarbons

UST – Underground Storage Tank

VOCs – Volatile organic Compounds



1. INTRODUCTION

Applied Water Resources (AWR) has prepared this *Site Remediation Completion Report* (Report) on behalf of Buttner Properties for the property located at 2250 Telegraph Ave, Oakland, California.

This Report describes the implementation of the *Corrective Action Plan* (Fugro, November 21, 2011) and its *Addendum* (Fugro, May 10, 2012), collectively referred to as the CAP, an approval letter dated November 8, 2012 from Ms. Barbara Jakub from Alameda County Environmental Health Services (ACEH), and the State Water Resources Control Board's *Low-Threat Underground Storage Tank Case Closure Policy (LTCP)* (May 1, 2012).

The CAP was implemented in June 2013; the objectives of the remedial actions at the Site were to:

- 1) Excavate soil in two "hotspot" areas with analytes above LTCP criteria;
- 2) Remove ground water that collected within the excavation;
- 3) Collect soil and ground water samples to confirm the effectiveness of the soil excavation;
- 4) Place oxygen-release compound (ORC) at the bottom of each excavation to accelerate naturally occurring aerobic biodegradation; and
- 5) Document the remedial action in a report submitted to ACEH as the lead regulatory agency for the case. All supporting documents will be uploaded to the State Water Resources Control Board (SWRCB) Geotracker database.

2. BACKGROUND

2.1 SITE SETTING

The Site is located at 2250 Telegraph Avenue, situated at the northeast corner of Telegraph Avenue and West Grand Avenue, in Oakland, California (Figure 1). The Site and immediately adjacent properties are zoned for commercial development and use. The Site is currently paved and vacant.

The nearest significant surface water features are Lake Merritt, 0.4 mile to the east, and San Francisco Bay, 2.5 miles to the west. The Site is essentially flat at an approximate elevation of 24 feet above mean sea level (msl).

The adjacent property to the east, also owned by Buttner Properties, Inc. is occupied by a single story structure, and paved parking and use areas (460 West Grand Avenue). The 460 Grand Avenue site has been used as a nursery school since December 1988. The nursery school building is situated approximately 90 feet east of the former service station building, and cross- and downgradient of the former USTs which were removed in 1990.



According to previous borings advanced, the Site is underlain by a layer of non-native fill consisting of clayey and sandy gravel varying in depth from about 2 to 5 feet. The fill material is underlain by layers of silty clay to lean clay to the maximum depth explored of 17 feet bgs. Fill materials consisting of sand and gravel exist in the former UST excavations.

Ground water at the Site has been monitored since 1994 and has fluctuated between depths of 8 to 13 feet bgs. It was observed that in each excavation, ground water started to slowly enter the excavation at approximately 14 feet bgs. Ground water monitoring has shown that the ground water flow direction is predominately toward the east-southeast.

2.2 SITE HISTORY

In the early 1950's Union Oil Company entered into a lease to operate a service station at the Site. In 1958, Buttner Properties, Inc. acquired the property and the existing service station management and operator at that time were allowed to continue in their lease arrangement. Two USTs (sizes unknown) were previously located in the southwest corner of the Site and records indicated that the USTs were removed from the Site in the 1960's. Three USTs (two-10,000 gallon gasoline and one-280 gallon waste oil tank) were then installed at the Site along with two fuel dispensing islands (each with two dispensers). In the late 1980's, fuel dispensing ceased and the lease was changed to allow automobile servicing and repair activities. The Site was occupied by a one-story former service station building that included two vehicle servicing bays and an office. The three USTs and dispensing islands were removed in August 1990. The service station building was demolished in early 2013. The site is now vacant. All tables and figures from the previous investigations and excavations are provided in Appendix A.

3. FIELD WORK

The excavation portion of Remedial Alternative 4 from the CAP was implemented from June 5, 2013 through June 28, 2013. Instead of injecting the oxygen-release compound (ORC), 440 pounds was placed in the bottom of the excavations. AWR observed and directed all field activities, which were supervised by a California Professional Geologist.

Field activities included:

- Excavating soil in two "hotspot" areas with analytes above LTCP criteria;
- Shoring the excavations;
- Removing ground water that collected within the excavation;
- Collecting soil and ground water samples to confirm the effectiveness of the soil excavation;



3.1 SOIL EXCAVATION OF THE FORMER WASTE OIL UST AREA

Between June 5th and June 11th, 2013, a soil excavation was performed in the general vicinity of the former waste oil UST (Excavation 1). Upon completion, the excavation measured 25 feet wide by 25 feet long and was 17 feet deep. In order to comply with OSHA regulations, shoring was installed in the excavation with a 1:1 slope extending 7 feet behind each of the shoring walls. Two soil samples were collected at each of the sidewalls every 10 feet at 4' and 9' bgs. Two bottom samples were collected at 9' bgs and two bottom samples were collected at 17' bgs. A sample was collected at 7 feet bgs near the eastern sidewall where black stained soil was observed and also at 7 feet bgs on the southern sidewall where green staining was observed.

Risk screening levels from the LTCP and from SF Bay Regional Water Quality Control Board's (RWQCB) Environmental Screening Levels (ESLs) were employed to guide the excavation and to determine if extending the excavation beyond its current limits was necessary. All excavated soil was stockpiled on plastic sheeting and at the end of each day the excavated soil was covered with plastic sheeting to provide protection from the weather. Approximately 485 cubic yards of soil had been removed from the excavation. Photographs documenting the remediation effort are provided in Appendix B.

3.2 SOIL EXCAVATION OF THE FORMER GASOLINE UST AREA

Between June 20th and June 26th, 2013, a soil excavation was performed in the former gasoline UST area (Excavation 2) and was originally designed to be 15 feet wide by 15 feet long by 17 feet deep. In order to comply with OSHA regulations, shoring was installed in the excavation with a 1:1 slope extending 7 feet behind each of the shoring walls. One soil sample was collected at each of the sidewalls at 4 feet, 9 feet, and 13 feet bgs. Two bottom samples were collected at 9 feet bgs and two bottom samples were collected at 17' bgs.

Concentrations of TPHg above 100 mg/kg were detected in sidewall samples collected at 13 feet bgs on the northern and eastern wall. On June 21st and June 24th, the excavation was extended 2 to 3 feet in all directions at 13 feet bgs and new sidewall samples were collected.

Due to TPH concentrations and observed staining, on June 26th, the excavation was extended 10 feet to the north and dug to 10 feet bgs. Sidewall samples were collected at 4 feet and 9 feet bgs along with a bottom sample. A sidewall sample at 7 feet bgs was also collected on the western sidewall due to its vicinity near the former UST excavation. Approximately 320 cubic yards of soil had been removed from the excavation. Photographs documenting the remediation effort are provided in Appendix B.

3.3 GROUND WATER REMOVAL

Saturated geologic conditions encountered in the excavations ranged from approximately 14 feet to 17 feet bgs. Ground water that accumulated in the excavations was removed periodically and stored in a baker tank on-site. Approximately 4,000 gallons of water was removed from the excavations in total. The water was then removed from the baker tank by a vacuum truck and disposed of at Instrat Inc.'s facility in Rio Vista, CA.



3.4 SAMPLE HANDLING AND ANALYSIS

All soil samples were collected in laboratory cleaned glass jars and with Terracore samplers for EPA method 5035, labeled and immediately placed in a pre-chilled insulated container. The water sample from the baker tank was collected using a peristaltic pump and tubing into the appropriate sampling containers prior to disposal.

The samples were picked up by courier and transported to Curtis and Tompkins in Berkeley, California, a state certified laboratory. All laboratory reports are in Appendix C.

All samples collected from Excavation 1 were analyzed for TPHg, TPHd, and TPHmo by EPA method 8015, VOCs by EPA method 8260, and LUFT-5 metals by EPA method 6010B. All samples collected at 4 feet bgs were also analyzed for PAHs by EPA Method by 8270C-SIM.

All samples collected from Excavation 2 were analyzed for TPHg by EPA Method 8015 and fuel oxygenates, BTEX and naphthalene by EPA method 8260. One sample (D-7C) was also analyzed for TPHd by EPA method 8015.

3.5 WASTE DISPOSAL

Prior to disposal of the approximately 975 cubic yards of soil, one 4-point composite sample was collected and analyzed for TPHg, TPHd, TPHmo, lead scavengers, fuel oxygenates, VOCs, LUFT-5 metals, SVOCs, polychlorinated biphenyls (PCBs) by EPA Methods 8015, 8260, 6010, 8270, and 8082, respectively. Appendix C contains the laboratory report and Appendix D provides copies of the waste manifests. All excavated soil was transported offsite for disposal at the Keller Canyon Landfill in Bay Point, CA.

All water pumped from the excavation, approximately 4,000 gallons, was stored in baker tank on-site and transported offsite for recycling by Warren E. Gomes Excavating, Inc. to Instrat's facility in Rio Vista. Appendix C contains the laboratory report for the grab ground water sample collected and Appendix D provides a copy of the waste manifest.

3.6 EXCAVATION BACKFILL

Prior to backfill, approximately 220lbs of oxygen releasing compound (ORC) advanced pellets, manufactured by Regenesi Bioremediation Products, was spread on the bottom of each excavation for a total of 440lbs of ORC placement. All excavations were then backfilled with a self-compacting aggregate crushed drain rock up to 14 feet bgs. The remainder of the excavations were backfilled with 4-inch minus fill materials compacted to 90% in 12 inch lifts. On September 25th and 26th, the excavations were graded and paved over with asphalt. Final excavation boundaries are illustrated on Figures 2 and 3 and cross-sections showing each of the excavations are shown on Figures 4 through 7.



4. DISCUSSION

This section discusses the environmental conditions that remain at the Site. Concentrations of chemicals measured in the soil are compared with 2013 ESLs developed by the SF Bay RWQCB for commercial facilities with a potable ground water resource. Concentrations are also compared to commercial/industrial criteria in the LTCP, which establishes case closure criteria for low-threat petroleum UST sites. Tables 1 and 2 summarize the laboratory analytical results of sidewall and bottom samples collected from Excavations 1 and 2. These tables differentiate between samples of soil removed by excavation from those of soil that remains in the ground at the Site. Appendix C contains the laboratory analytical reports.

4.1 QUALITY OF SOIL REMAINING IN RECENT EXCAVATIONS

In Excavation 1, 18 soil samples were collected from the sidewalls and 5 soil samples were collected from the bottom, as shown in Figures 3 through 5. All samples collected from remaining soil had concentrations below their respective ESL for risk to ground water and screening concentrations established by the LTCP for the protection of water quality and risk to human health (Table 1).

In Excavation 2, 22 soil samples were collected from the sidewalls and 5 soil samples were collected from the bottom, as shown in Figures 3, 6, and 7. Fourteen of these soil samples represent soil still remaining at the Site (Table 2). With the exception of EX2-D-9C and EX2-A-9C, the analytical data show that all remaining shallow soil above 10 feet bgs does not exceed either LTCP criteria or ESLs. No measurable detections of benzene were found above 10 feet bgs.

Benzene was measured at concentrations exceeding the ESL for the protection to ground water in soil samples collected at 13 feet bgs on all, but the western sidewall of the excavation and 10 feet bgs at the bottom of the extended excavation to the north. Naphthalene and xylenes were found in concentrations above the ESL in soil samples on the bottom of the extended excavation (Figures 3 and 7; Table 2). The addition of 440 pounds of oxygen releasing compound (ORC) in the bottom of the excavations prior to backfill, is expected to promote a significant microbial destruction of residual petroleum concentrations in soil and ground water.

4.2 GROUND WATER QUALITY

Grab ground water samples were collected from 12 borings in July 2009. Benzene was detected in concentrations exceeding its respective ESL for assessment of potential vapor intrusion from chemicals in ground water in 4 borings (B1, B6, B8, and B9) (Appendix A, Table 4).

Ground water was last sampled in MW-1, MW-5, and MW-6 in October 2010. MW-2 was last sampled in July 2009 and MW-3 and MW-4 in May 2011. MW-7 and MW-8 were most recently sampled in December 2011 (Appendix A; Fugro 2012). After reviewing data available, it appears that the ground water plume had migrated off-site with the highest concentrations being found in MW-8.



The most recent ground water data were compared to ESLs established to assess potential vapor intrusion from chemicals in ground water. Benzene was found to have a concentration above its respective commercial ESL in MW-3 (Fugro, 2012).

4.3 SOIL GAS QUALITY

Seven semi-permanent soil gas wells were installed to 5 feet bgs and sampled in July 2009. Soil gas samples were analyzed for TPHg, TPHd, BTEX, MTBE, methane, oxygen, and carbon dioxide.

All concentrations measured in soil gas were below commercial ESLs for vapor intrusion and the LTCP criteria with no bioattenuation zone. However, none of the soil gas samples were analyzed for naphthalene, which is a criterion in the LTCP. It is assumed that SG-3 may be improperly built due to the leak check compound being detected and a high percentage of oxygen in the sample. Oxygen concentrations measured in the other soil gas wells ranged from 3.2 to 16%, providing significant bioattenuation capacity for any potential soil gas vapors at the site.

5. RECOMMENDATIONS

Based on observations and data collected from the recent remedial action, the following actions are recommended:

- Replace MW-4, which had been removed during the excavation per the CAP.
- Due to residual contamination in some soil, ground water samples should be collected from existing monitor wells and analyzed for TPHg, TPHmo, BTEX, and MTBE.
- Due to the lack of analysis for naphthalene in soil gas and residual petroleum in soil and ground water, it is recommended that soil gas be sampled from the following:
 - SG-1 to assess effects of petroleum measured in the grab ground water collected at B-1 (Fugro 2011) and due to its proximity near former pump island.
 - SG-4 (reinstall) to assess the benefits of the recent remedial effort at Excavation 1, and to assess potential effects from petroleum concentrations measured in the 2009 grab ground water samples B-4a, B-5, and B-12.
 - SG-6 to assess effects of residual petroleum east of Excavation 2 and concentrations measured in the 2009 grab ground water sample of B-6.
 - SG-7 (reinstall) to assess the benefits of the recent remedial effort at Excavation 2 and effects of residual petroleum.



- SG-8, (new near MW-3) to assess effects of residual petroleum south of Excavation 2 and to assess potential affects from petroleum concentrations measured in MW-3.

The locations of the proposed monitor well and soil gas wells are shown in Figure 8.

6. REFERENCES

California EPA, Department of Toxic Substances Control, Regional Water Quality Control Board San Francisco and Los Angeles Regions, *Advisory, Active Soil Gas Investigations*, April 2012

Fugro Consultants Inc., *Corrective Action Plan*, November 2011

Fugro Consultants Inc., *Corrective Action Plan Addendum*, May 2012.

Fugro Consultants Inc., *Remediation Progress Report and Quarterly Groundwater Monitoring Report (4th Qtr 2012)*, February 2013.

State Water Resources Control Board, *Low-Threat Underground Storage Tank Case Closure Policy*, 2012

San Francisco Bay Regional Water Quality Control Board, *Environmental Screening Levels*, Updated May 2013



TABLES



Table 1
Soil Sampling Analytical Results from Excavation 1
2250 Telegraph Ave, Oakland, CA

Sample ID	Date	Sample Depth (ft bgs)	Metals					TPH			VOCs						PAHs														Sum of Toxic Equivalency				
			Cadmium	Chromium	Lead	Nickel	Zinc	Gasoline	Diesel C10-C24	Motor Oil C24-C36	Benzene	Ethylbenzene	Xylene (m,p)	Xylene (o)	Naphthalene	Acetone	tert-butyl Alcohol	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a)anthracene	Benzo(a)pyrene	Benzo(b)fluoranthene	Benzo(g,h,i)perylene	Benzo(k)fluoranthene	Chrysene	Dibenz(a,h)anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene		Naphthalene	Phenanthrene	Pyrene	
Screening Criteria			mg/kg														µg/kg														mg/kg				
GW Protection ¹			--	--	--	--	--	580	530	--	0.044	3.3	2.3	2.3	1.2	0.5	0.075	16,000	13,000	2,800	12,000	130,000	46,000	27,000	5,100	23,000	9,900	60,000	8,900	15,000	1,200	11,000	85,000	--	
LTCP Criteria (0 to 5') ²			--	--	--	--	--	100	100	--	8.2	89	--	--	45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	0.68
LTCP Criteria (5 to 10') ²			--	--	--	--	--	100	100	--	12	134	--	--	45	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Removed Soil																																			
EX1-A-4	6/5/13	4	<0.22	27	3.7	15	17	<0.22	31 Y	40	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.019	--	25	49	210	370	280	270	110	87	300	57	550	89	120	100	720	530	3.87	
EX1-B-4	6/5/13	4	<0.25	29	4.6	14	22	<0.17	<1	<5	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.017	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.005
EX1-C-4	6/5/13	4	<0.24	31	4.5	14	16	<0.14	<1	<5	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.017	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.005
EX1-D-4	6/5/13	4	<0.22	29	25	14	17	<0.20	<1	<5	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.019	--	<5.0	<5.0	<5.0	7.1	6.6	8.2	<5.0	<5.0	6.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.2	0.008	
EX1-E-4	6/5/13	4	<0.23	28	5.7	14	17	<0.19	<1	<5	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.021	--	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<0.005	
EX1-F-4	6/5/13	4	<0.23	14	40	23	97	<0.23	8.2 Y	63	<0.0053	<0.0053	<0.0053	<0.0053	<0.0053	<0.021	--	<5.0	<5.0	<5.0	13	19	29	23	6.7	15	7.6	9.9	<5.0	16	<5.0	6.6	12	0.03	
EX1-G-4	6/5/13	4	<0.23	41	11	18	29	<0.20	<0.99	<5	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.019	--	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<0.0049	
EX1-H-4	6/5/13	4	<0.23	28	38	16	51	<0.19	3 Y	<5	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.017	--	<5.0	<5.0	<5.0	16	15	19	11	6	13	<5.0	14	<5.0	11	<5.0	<5.0	13	0.02	
EX1-C-7	6/5/13	7	--	--	--	--	--	--	<0.99	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-E-7	6/6/13	7	--	--	--	--	--	--	<1	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-BOT-9A	6/7/13	9	<0.23	35	15	38	56	<0.16	2.2 Y	11	<0.0036	<0.0036	<0.0036	<0.0036	<0.0036	<0.014	<0.071	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-BOT-9B	6/7/13	9	<0.24	32	5.3	31	43	<0.20	<1	<5	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.017	<0.086	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
Remaining Soil																																			
EX1-A-4B	6/10/13	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<5	<5	<5	11	12	18	7.8	<5	11	<5	12	<5	6.7	<5	6.2	16	0.02	
EX1-A-4B-DUP	6/10/13	4	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	<10	<10	<10	<10	<10	14	<10	<10	<10	<10	12	<10	<10	<10	<10	12	0.001	
EX1-A-9	6/6/13	9	<0.25	36	5.1	30	38	<0.16	<1	<5	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.017	<0.086	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-B-9	6/6/13	9	0.39	41	5.6	54	54	<0.22	6Y	14	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	<0.017	<0.086	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-C-9	6/6/13	9	0.39	47	6.8	56	59	<0.16	7.1Y	11	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.018	<0.091	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-D-9	6/6/13	9	0.45	43	7.9	57	58	<0.16	2.3Y	5.4	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.017	<0.084	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-E-9	6/6/13	9	0.52	46	6.6	72	59	<0.15	1.9Y	<5	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	<0.017	<0.083	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-F-9	6/6/13	9	0.35	44	8.3	62	58	<0.15	30Y	200	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.019	<0.095	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-G-9	6/7/13	9	0.22	39	7	57	53	<0.15	<0.99	<5	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	0.017	<0.084	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-H-9	6/7/13	9	<0.25	38	6	40	50	<0.18	<1	<5	<0.0046	<0.0046	<0.0046	<0.0046	<0.0046	<0.018	<0.091	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-BOT-17A	6/11/13	17	0.48	48	5.7	58	36	<0.17	30 Y	22	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	<0.015	<0.076	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-BOT-17A-DUP	6/11/13	17	<0.25	48	4.8	53	36	<0.17	8.0 Y	11	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	<0.018	<0.088	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
EX1-BOT-17B	6/11/13	17	0.55	45	6.5	66	35	<0.19	3.2 Y	<5	<0.0041	<0.0041	<0.0041	<0.0041	<0.0041	<0.016	<0.082	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	

Notes:

LTCP: Low Threat Closure Policy

¹: Soil leaching goals for protection of ground water, ground water is a drinking water resource (Table G)

²: Commercial/Industrial Scenario

Exceeds Low Threat Closure Policy Criteria

Highlighted where above ESL protection of ground water screening criteria

Greyed where value is below laboratory reporting limit

Table 2
Soil Sampling Analytical Results from Excavation 2
2250 Telegraph Ave, Oakland, CA

Sample ID	Date	Sample Depth (ft bgs)	TPH			VOCs						
			Gasoline	Diesel C10-C24	Motor Oil C24-C36	Benzene	Ethylbenzene	Xylene (m,p)	Xylene (o)	Naphthalene	Acetone	tert-butyl Alcohol
Screening Criteria												
GW Protection ¹			580	530	--	0.044	3.3	2.3	2.3	1.2	0.5	0.075
LTCP Criteria (0 to 5') ²			100	100	--	8.2	89	--	--	45	--	--
LTCP Criteria (5 to 10') ²			100	100	--	12	134	--	--	45	--	--
Removed Soil												
EX2-A-4	6/5/13	4	<0.17	--	--	<0.0042	<0.0042	<0.0042	<0.0042	<0.0042	--	<0.084
EX2-B-4	6/5/13	4	<0.18	--	--	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	--	<0.095
EX2-C-4	6/5/13	4	<0.20	--	--	<0.0043	<0.0043	<0.0043	<0.0043	<0.0043	--	<0.086
EX2-D-4	6/5/13	4	<0.19	--	--	<0.0032	<0.0032	<0.0032	<0.0032	<0.0032	--	<0.063
EX2-A-9A	6/20/13	9	91	--	--	1	2.4	9.6	1.4	1	--	<4.5
EX2-A-9A-DUP	6/20/13	9	88	--	--	0.74	2.4	11	1.3	0.79	--	<3.9
EX2-B-9A	6/20/13	9	1.5 Y	--	--	<0.0043	<0.0043	<0.0043	<0.0043	0.055	--	<0.086
EX2-D-9A	6/20/13	9	430	--	--	0.9	6.5	19	<0.38	3.1	--	<0.076
EX2-BOT-9A	6/20/13	9	530	--	--	2.4	13	53	7.8	3.5	--	<22
EX2-BOT-9B	6/20/13	9	12 Y	--	--	0.12	0.63	0.0054	<0.0045	0.43	--	<0.089
EX2-A-13A	6/21/13	13	440 Y	--	--	2.2	3.9	0.2	<0.19	1.2	--	<3.8
EX2-B-13A	6/21/13	13	930 Y	--	--	2.4	11	1.4	<0.45	3.1	--	<9
Remaining Soil												
EX2-C-9A	6/20/13	9	2.3 Y	--	--	0.0041	<0.0037	<0.0037	<0.0037	<0.0037	--	<0.074
EX2-A-13B	6/21/13	13	240 Y	--	--	2.2	0.97	<0.21	<0.21	0.49	--	<0.21
EX2-B-13B	6/21/13	13	3.5 Y	--	--	0.52	0.013	0.0083	<0.0039	0.013	--	<0.078
EX2-C-13B	6/21/13	13	35 Y	--	--	0.63	0.12	0.016	<0.0039	0.025	--	<0.079
EX2-D-13B	6/21/13	13	3.1Y	--	--	0.016	0.093	0.076	<0.0037	0.24	--	<0.074
EX2-BOT-17NE	6/21/13	17	0.55 Y	--	--	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	--	<0.079
EX2-BOT-17SW	6/21/13	17	1.4 Y	--	--	<0.0043	<0.0043	<0.0043	<0.0043	0.12	--	<0.085
EX2-A-4C	6/26/13	4	<0.14	--	--	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	--	<0.076
EX2-B-4C	6/26/13	4	<0.18	--	--	<0.005	<0.005	<0.005	<0.005	<0.005	--	<0.1
EX2-D-4C	6/26/13	4	<0.18	--	--	<0.0038	<0.0038	<0.0038	<0.0038	<0.0038	--	<0.076
EX2-D-7C	6/26/13	7	6.3Y	6.4b	--	<0.19	<0.19	<0.19	<0.19	0.24	--	<3.7
EX2-A-9C	6/26/13	9	21Y	--	--	<0.2	0.77	<0.2	<0.2	1.5	--	<4
EX2-B-9C	6/26/13	9	0.39Y	--	--	<0.0039	<0.0039	<0.0039	<0.0039	<0.0039	--	<0.078
EX2-D-9C	6/26/13	9	0.7Y	--	--	<0.0039	<0.0039	<0.0039	<0.0039	0.037	--	0.12
EX2-BOT-10C	6/26/13	10	33	--	--	0.62	1.5	3	0.36	1.7	--	<4

Notes:

LTCP: Low Threat Closure Policy

¹: Soil leaching goals for protection of ground water, ground water is a drinking water resource (Table G)

²: Commercial/Industrial Scenario

Exceeds Low Threat Closure Policy Criteria

Highlighted where above ESL protection of ground water screening criteria

Greyed where value is below laboratory reporting limit

FIGURES



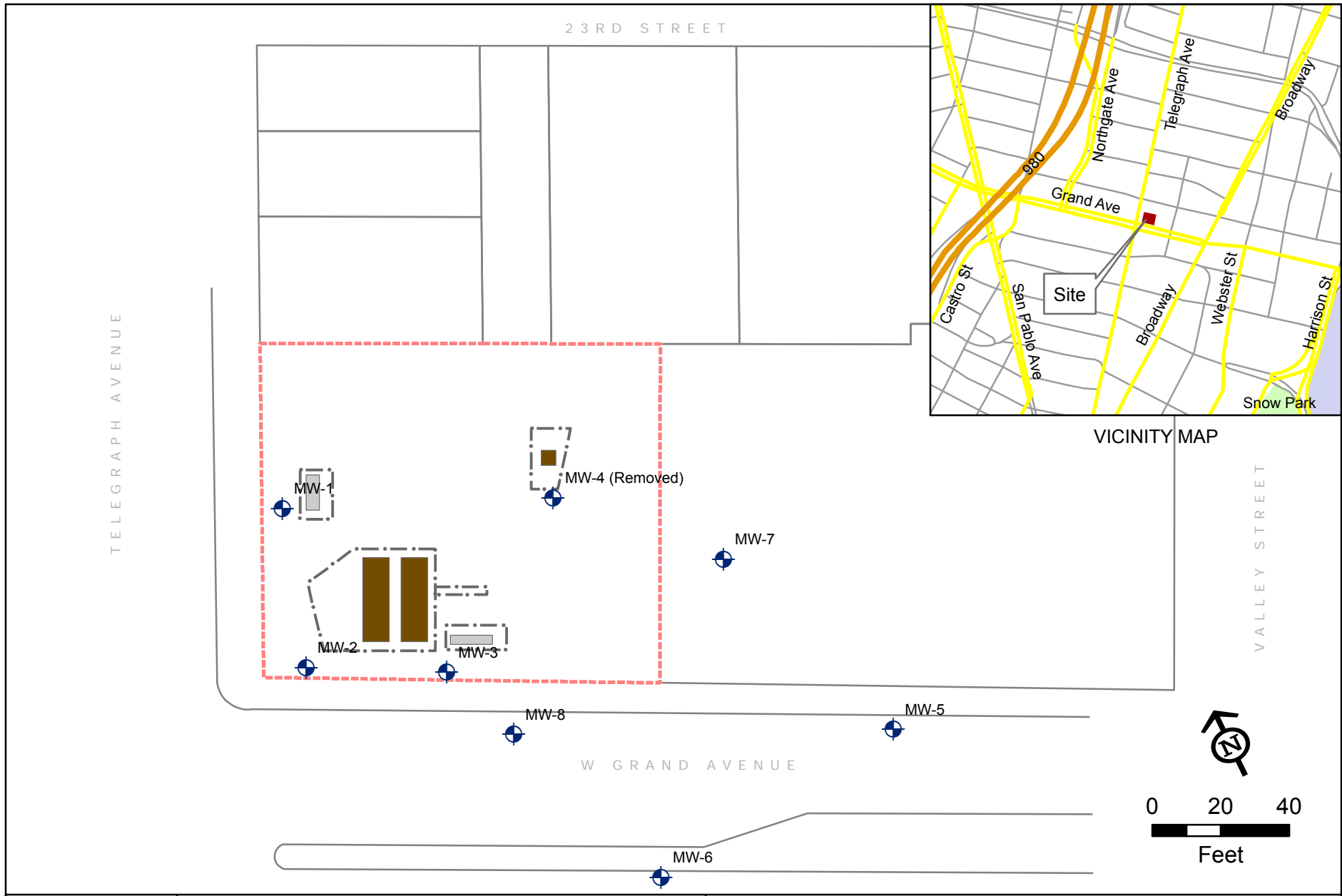


Figure - 1
Site Location Map
 2250 Telegraph Ave Oakland, CA

-  Dispenser Island
-  Previous Tank
-  Historic Excavation
-  Monitor Well
-  Property Boundary

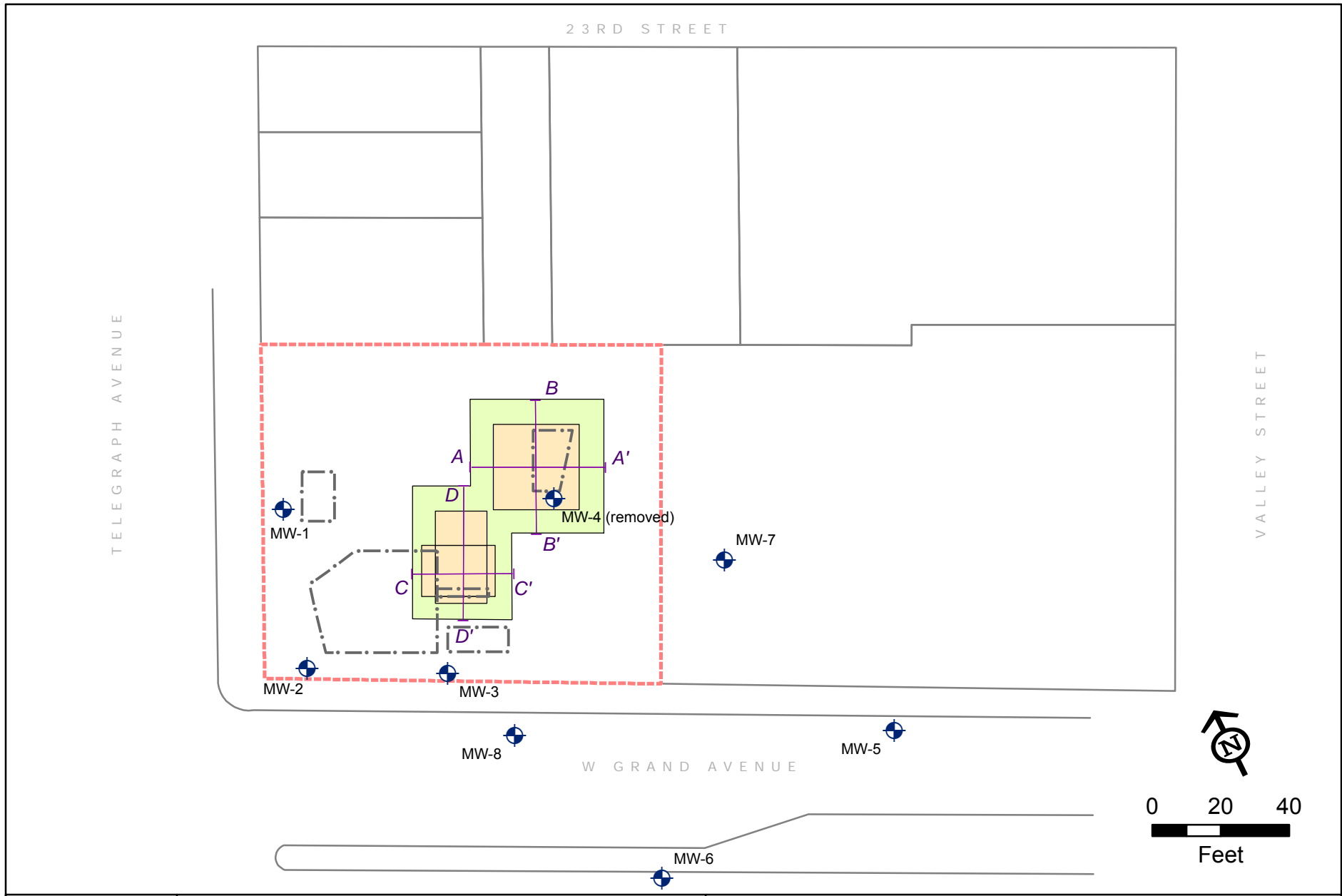








Figure - 2
Cross Section Locations
 2250 Telegraph Ave Oakland, CA

-  Cross Section
-  Previous Excavation
-  Excavation
-  Sloping
-  Property Boundary
-  Monitor Well



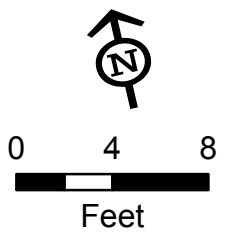
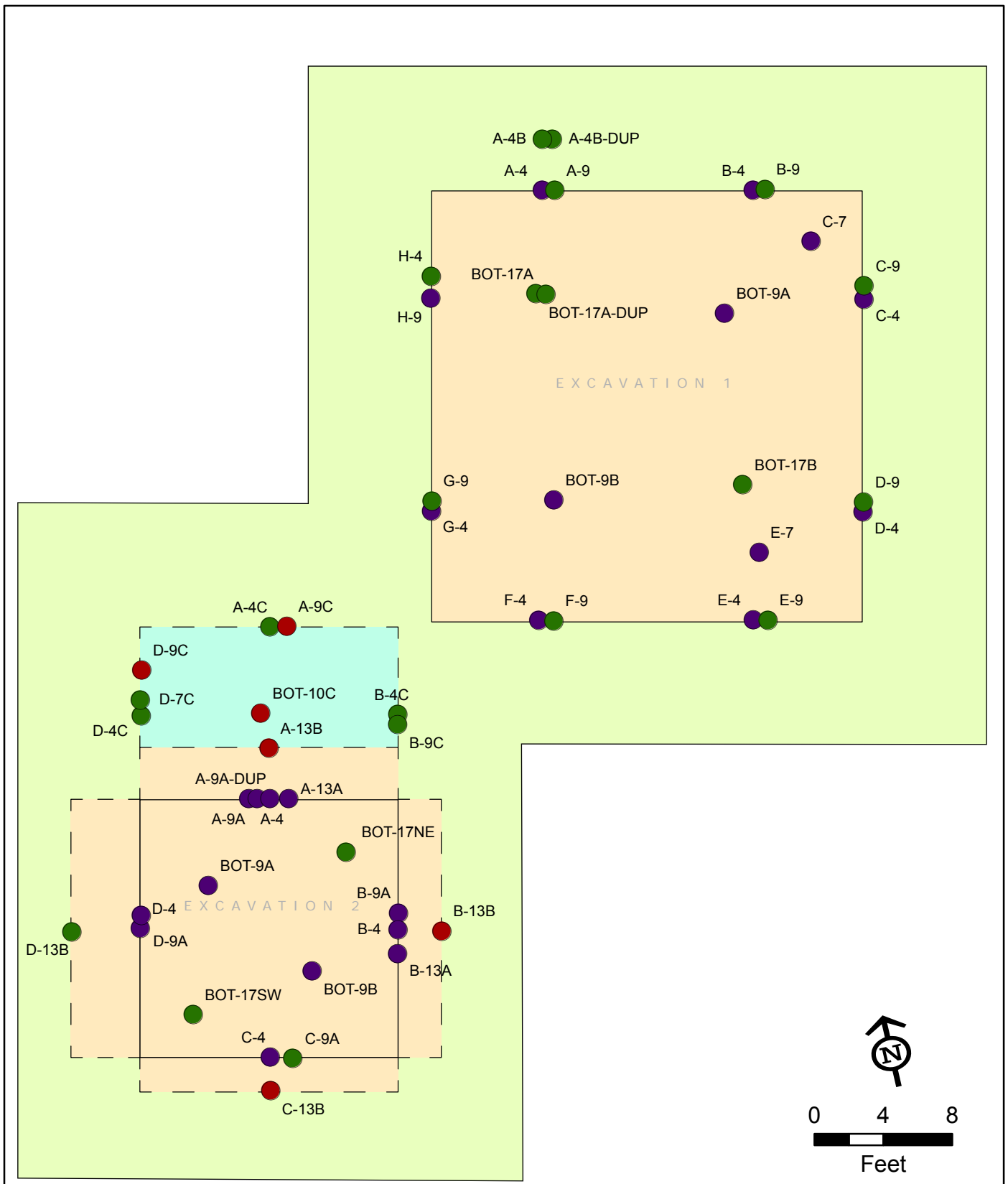


Figure - 3
Excavation Plan View
 2250 Telegraph Ave, Oakland, CA

- Soil Sample (remaining) > ESL For GW Protection
- Soil Sample (remaining) < ESL For GW Protection
- Soil Sample (removed)
- Excavation to 17' (Dashed Where Extended)
- Excavation to 10' (Dashed Where Extended)
- Slope (1:1)

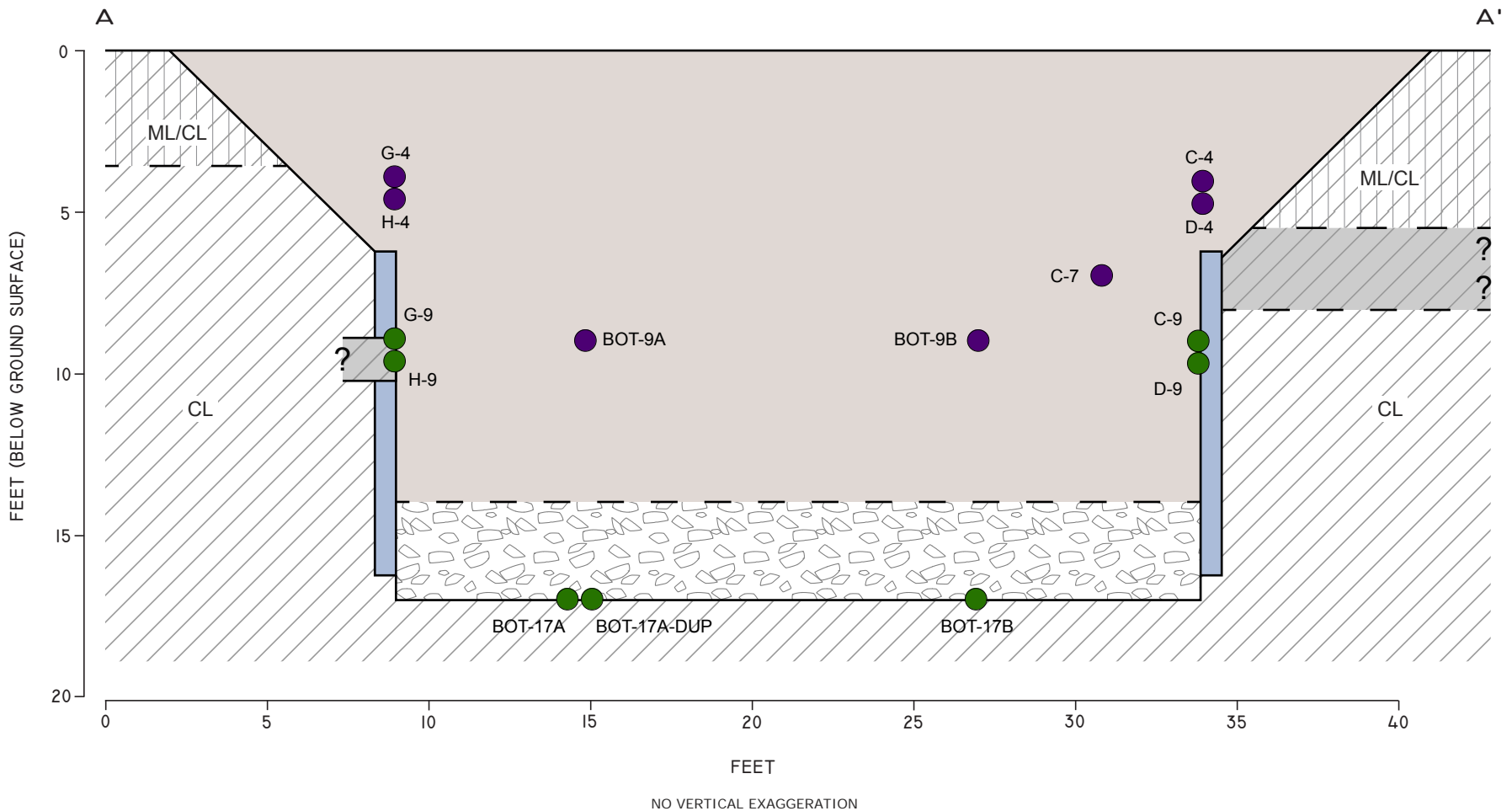


Figure - 4
Cross Section A-A'
Excavation 1
 2250 Telegraph Ave Oakland, CA



- Soil Sample (remaining) > ESL For GW Protection
- Soil Sample (remaining) < ESL For GW Protection
- Soil Sample (removed)
- 90% Compacted 4 Inch Minus Clean Fill Material
- Self-Compacting Drainrock
- Shoring
- ML/CL Silty Clay
- CL Clay
- Staining

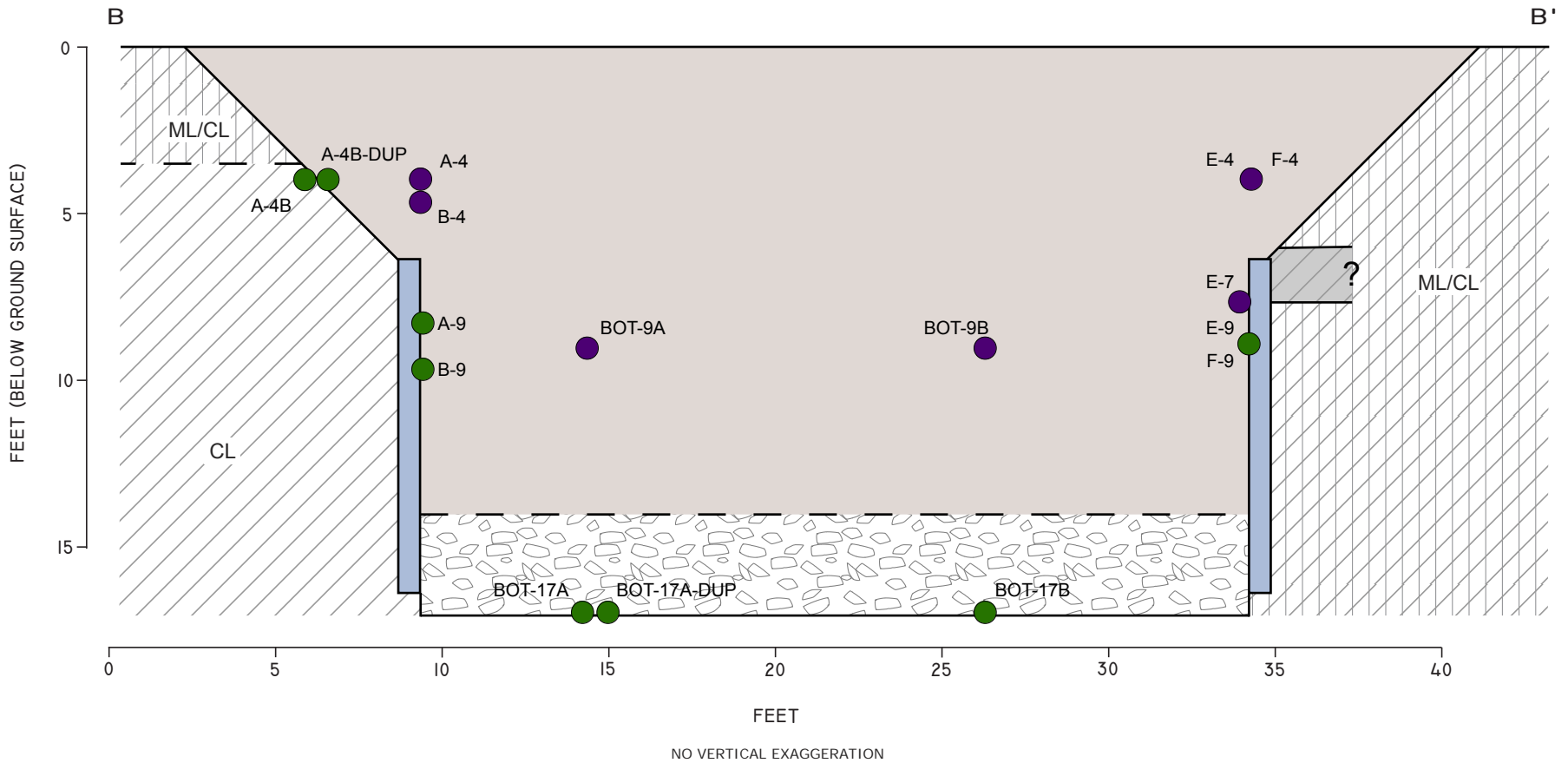


Figure - 5
Cross Section B-B'
Excavation 1

2250 Telegraph Ave Oakland, CA



- | | | | | | |
|--|--|--|---|--|------------|
| | Soil Sample (remaining)
> ESL For GW Protection | | 90% Compacted 4 Inch
Minus Clean Fill Material | | Silty Clay |
| | Soil Sample (remaining)
< ESL For GW Protection | | Self-Compacting Drainrock | | Clay |
| | Soil Sample
(removed) | | Shoring | | Staining |

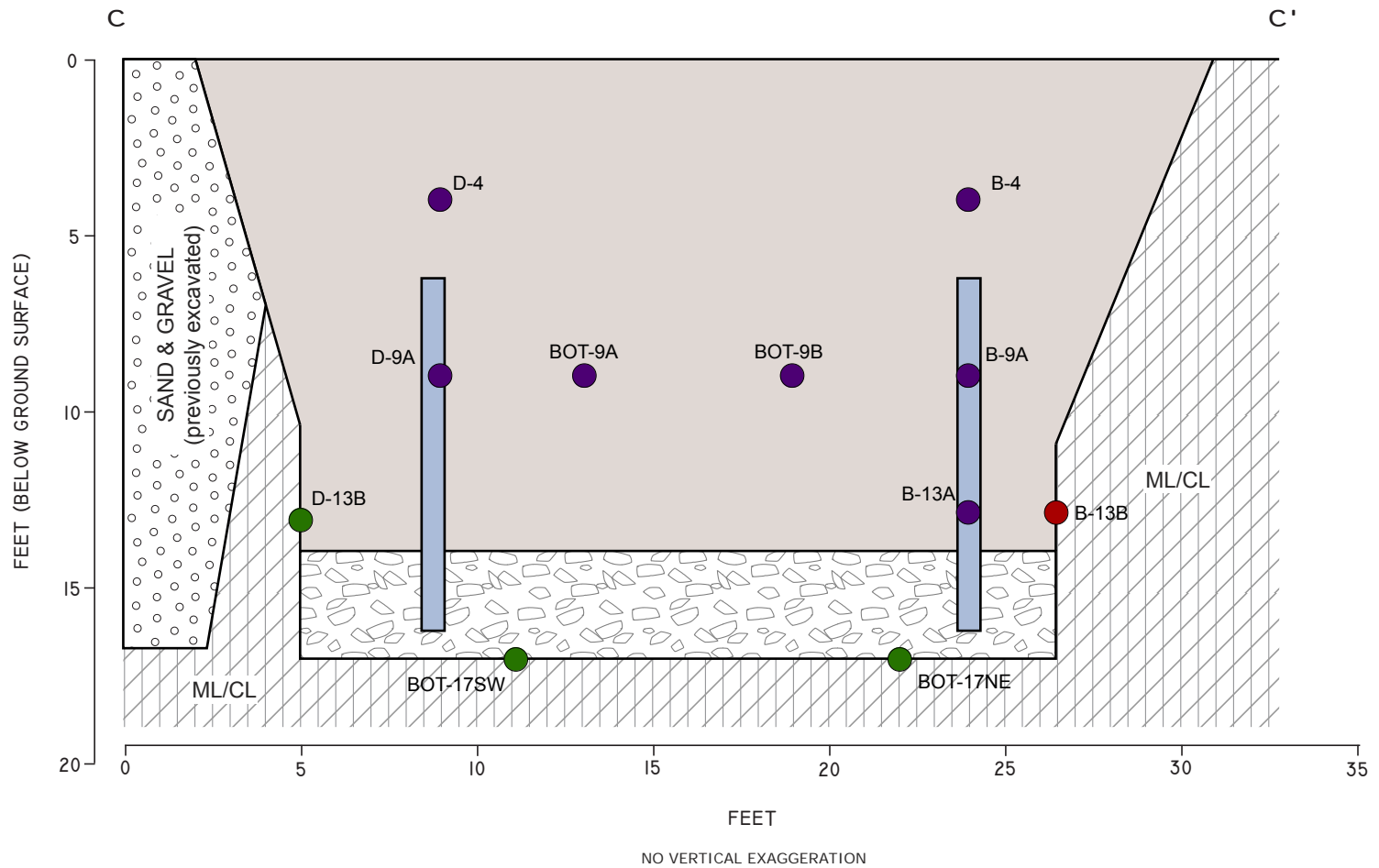


Figure - 6
Cross Section C-C'
Excavation 2
 2250 Telegraph Ave Oakland, CA



- Soil Sample (remaining) > ESL For GW Protection
- Soil Sample (remaining) < ESL For GW Protection
- Soil Sample (removed)
- 90% Compacted 4 Inch Minus Cleanfill Material
- Self-Compacting Drainrock
- Shoring
- ML/CL Silty Clay

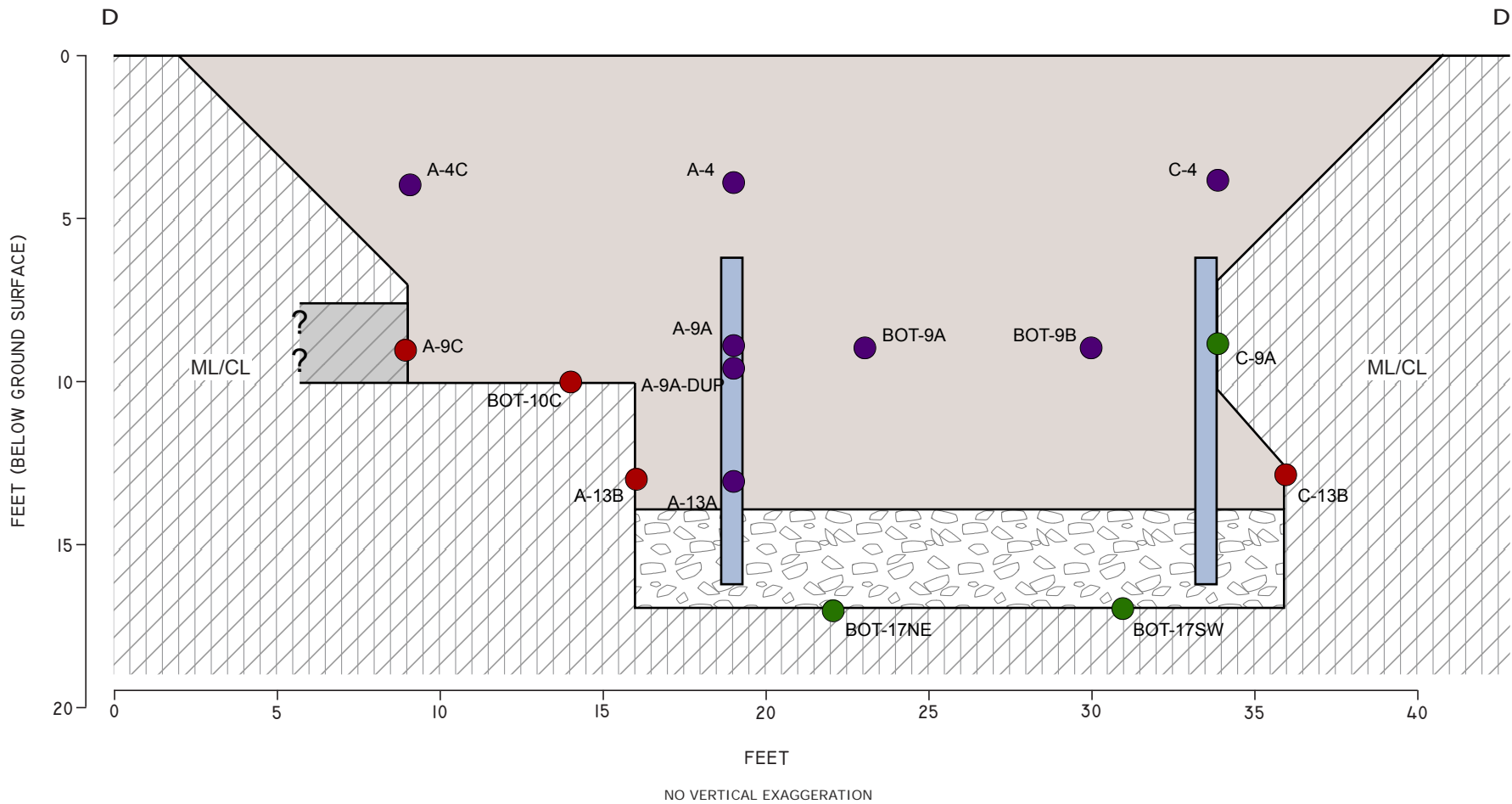


Figure - 7
Cross Section D-D'
Excavation 2

2250 Telegraph Ave Oakland, CA



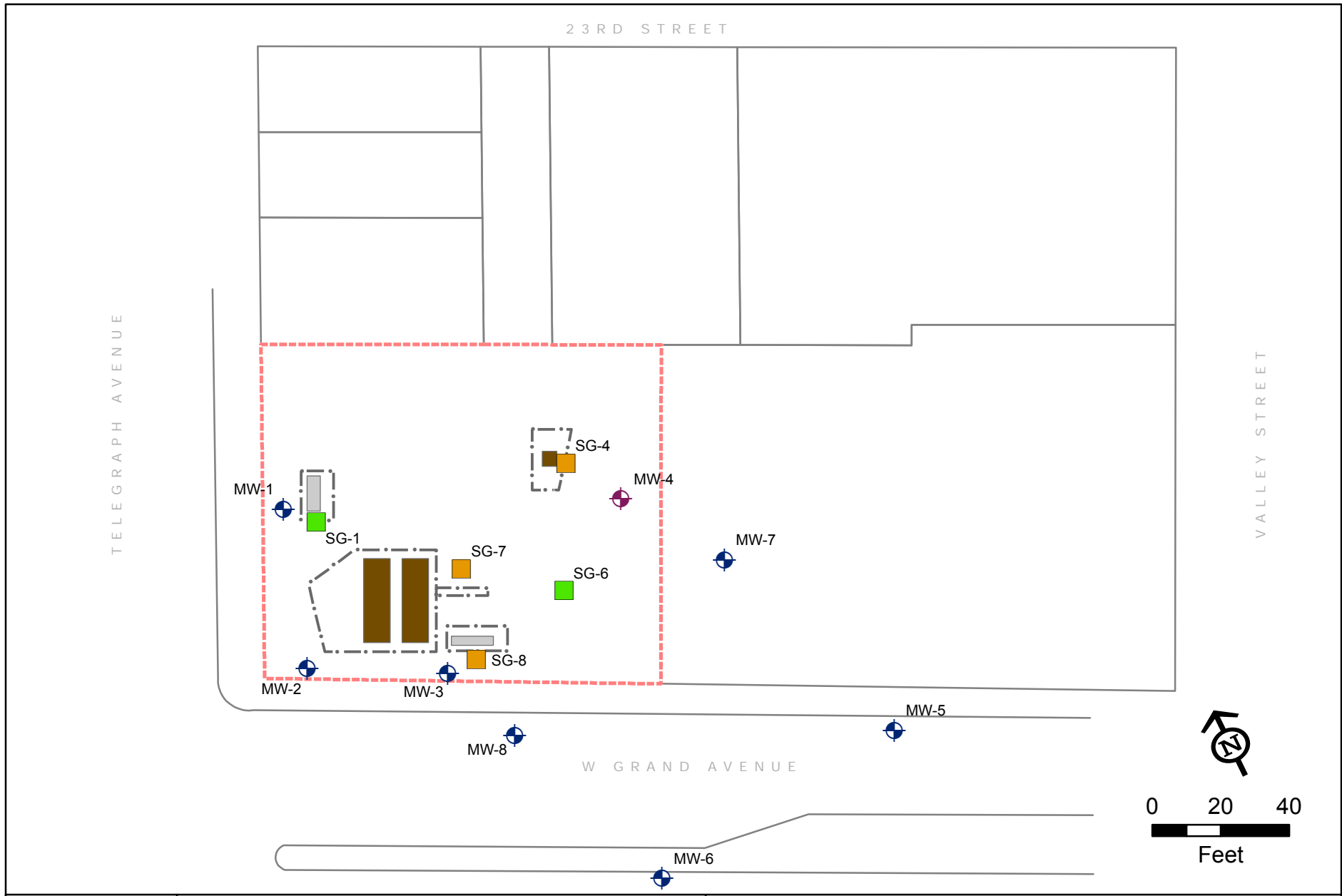


Figure - 8
Monitor Well and Soil Gas Well Locations
 2250 Telegraph Ave Oakland, CA

- | | | |
|-------------------------------|-------------------|------------------------------|
| Existing Soil Gas Well | Dispenser Island | Monitor Well To Be Installed |
| Soil Gas Well To Be Installed | Previous Tank | Monitor Well |
| Historic Excavation | Property Boundary | |



APPENDIX A

TABLES AND FIGURES FROM PREVIOUS EFFORTS





Sample Location and Depth in Feet	Sample Date	Petroleum Hydrocarbons					PCBs	Volatile Organic Compounds						Metals						Semi-Volatile Organic Compounds			
		TPH, Gasoline Range	TPH, Kerosene Range	TPH, Diesel Range	TPH, Motor Oil Range	Total Oil Grease	Polychlorinated Biphenyls	Benzene	Toluene	Ethylbenzene	Xylenes	PCE	Chlorobenzene	Cadmium	Chromium	Copper	Lead	Nickel	Zinc	2-Methylphenol	2-Methylnaphthalene	Di-N-Butyl Phthalate	Naphthalene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Gasoline Tank and Dispenser Area																							
G3@ 10	8/29/1990	120	--	--	--	--	--	820	560	2,300	4,000	--	--	--	--	--	9.07	--	--	--	--	--	--
G4@ 10	8/29/1990	18	--	--	--	--	--	89	11	150	520	--	--	--	--	--	19.2	--	--	--	--	--	--
G5@ 10	8/29/1990	270	--	--	--	--	--	2,300	220	3,400	410	--	--	--	--	--	5.43	--	--	--	--	--	--
G6@ 15	8/29/1990	8.3	--	--	--	--	--	320	6.3	170	220	--	--	--	--	--	4.93	--	--	--	--	--	--
G7@ 11	8/29/1990	6.3	--	--	--	--	--	270	34	<5.0	160	--	--	--	--	--	8.45	--	--	--	--	--	--
G8@16	8/29/1990	<2.5	--	--	--	--	--	19	5.6	<5.0	<5.0	--	--	--	--	--	6.65	--	--	--	--	--	--
G9@ 10	8/29/1990	<2.5	--	--	--	--	--	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	5.54	--	--	--	--	--	--
G10@ 16	8/29/1990	260	--	--	--	--	--	1,600	670	1,300	460	--	--	--	--	--	8.36	--	--	--	--	--	--
G11@ 10	8/29/1990	<2.5	--	--	--	--	--	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	6.01	--	--	--	--	--	--
D1@ 0.5	8/29/1990	<2.5	--	--	--	--	--	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	201	--	--	--	--	--	--
D2@ 0.5	8/29/1990	1,700	--	--	--	--	--	2,300	9,500	35,000	77,000	--	--	--	--	--	107	--	--	--	--	--	--
D3@ 0.5	8/29/1990	200	--	--	--	--	--	850	1,600	3,800	18,000	--	--	--	--	--	91.7	--	--	--	--	--	--
D4@ 0.5	8/29/1990	<2.5	--	--	--	--	--	<5.0	<5.0	<5.0	9.1	--	--	--	--	--	537	--	--	--	--	--	--
Waste Oil Tank Area																							
WO-1	8/31/1990	40	--	290	3,800	1,700	<0.05	1,800	880	800	1,200	39	40	0.431	23.4	38.4	151	32.5	167	0.9	2.4	0.5	1.3
WO-2	8/31/1990	740	--	640	5,100	3,600	--	12,000	15,000	10,000	18,000	470	<10	0.522	25.6	32.5	112	30.2	140	--	--	--	--
WP1,2,3,4	8/31/1990	130	--	1,000	4,800	3,200	--	11000	1,700	2,100	3,900	66	<10	0.482	26.0	23.3	85.9	27.5	70.6	--	--	--	--
ESLs Residential Land Use ¹		100	100	100	370	370	0.22	120	9,300	2,300	11,000	370	1,500	1.7	750	230	200	150	600	NE	0.25	NE	1.3
ESLs Commercial/Industrial Land Use ¹		180	180	180	2,500	2,500	0.74	270	9,300	4,700	11,000	950	1,500	7.4	750	230	750	150	600	NE	0.25	NE	2.8

Notes

- TPH = Total petroleum hydrocarbons
- DCA = Dichloroethane
- TCA = Trichloroethane
- PCE = Tetrachloroethane
- NE = No value established
- mg/kg = milligrams per kilogram = parts per million
- µg/kg = micrograms per kilogram = parts per billion
- <1 = Chemical not present at a concentration greater than the laboratory detection limit shown or stated on test reports
- = Chemical not tested for

ESLs = San Francisco Bay Regional Water Quality Control Board, Screening for Environmental Concerns at Sites with Contaminated Soil and Grounwater, Interim Final November 2007, Revised May 2008

¹ = Table B Shallow Soil Screening Levels, Groundwater is not a Current or Potential Source of Drinking Water



Sample Location and Depth in Feet	Sample Date	Petroleum Hydrocarbons					Volatile Organic Compounds								Metals	Semi-Volatile Organic Compounds												
		TPH, Gasoline Range	TPH, Kerosene Range	TPH, Diesel Range	TPH, Motor Oil Range	Total Oil Grease	Benzene	Toluene	Ethylbenzene	Xylenes	1,1,1-TCA	1,2-DCA	PCE	Chlorobenzene		Lead	2-Methylnaphthalene	Anthracene	Bis-2-ethylhexyl Phthalate	Butylbenzophthalate	Di-N-Butyl Phthalate	Fluoranthene	Fluorene	Naphthalene	Nitrobenzene	N-Nitrosodiphenylamine	Phenanthrene	Pyrene
		mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	µg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	
Gasoline Tank and Dispenser Area																												
G10@ 17	10/10/90	<2.5	--	<5	<50	--	73	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
G12@ 10	10/5/90	52	--	110	<50	--	110	45	480	140	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
G13@ 10	10/8/90	12	--	<5	<50	--	220	43	60	130	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
G14@ 7.5	10/8/90	<2.5	--	<5	100	--	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
G15@ 9.5	10/8/90	310	--	<5	<50	--	820	59	1,300	1,600	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
G16@ 11	10/8/90	19	--	<5	<50	--	200	41	210	46	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
G17@ 6	10/10/90	24.0	--	<5	<50	--	38	20	12	18	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	
G18@ 8	10/17/90	<2.5	--	<5	<50	--	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G19@ 10	10/17/90	<2.5	--	<5	<50	--	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G20@ 17	10/17/90	<2.5	--	<5	<50	--	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G21@ 10	10/17/90	<2.5	--	<5	<50	--	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
G22@ 10	10/17/90	<2.5	--	<5	87	--	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D2@ 4.5	10/8/90	<2.5	--	<5	<50	--	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
D3@ 4.5	10/4/90	<2.5	--	<5	<50	--	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Waste Oil Tank Area																												
3@ 6	2/9/94	<1	<1	<1	27	<50	<5	<5	<5	<5	--	--	--	--	8	--	--	--	--	--	--	--	--	--	--	--	--	--
4@ 11	2/9/94	<1	<1	<1	20	80	<5	<5	<5	<5	--	--	--	--	11	--	--	--	--	--	--	--	--	--	--	--	--	--
5@ 6	2/9/94	240	<1	560	1,700	3,900	300	1,800	2,500	16,000	<5	36	29	16	590	2.7	0.13	<0.05	<0.05	<0.05	0.14	0.12	1.8	0.39	<0.05	0.45	0.26	
6@ 11	2/9/94	31	<1	250	640	1,700	580	670	550	2,700	<5	<5	8.0	8.4	45	3.7	0.18	<0.05	<0.05	1.6	0.15	0.14	2.5	<0.05	0.21	0.39	0.27	
7@ 6	2/9/94	<1	<1	<1	<10	<50	<5	<5	<5	31	<5	<5	<5	<5	19	<0.05	<0.05	0.32	0.93	1.7	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	
8@ 11.5	2/9/94	100	<1	680	1,100	2,700	360	300	1,300	6,700	--	--	--	--	21	--	--	--	--	--	--	--	--	--	--	--	--	
9@ 6	2/9/94	<1	<1	<1	<10	<50	<5	<5	<5	<5	--	--	--	--	8.6	--	--	--	--	--	--	--	--	--	--	--	--	
10@ 11.5	2/9/94	6.5	<1	210	360	470	100	7.3	100	160	--	--	--	--	14	--	--	--	--	--	--	--	--	--	--	--	--	
11@ 13	2/9/94	15	<1	210	450	780	430	45	350	960	<5	<5	<5	7.6	60	0.39	<0.05	<0.05	<0.05	2	0.05	0.08	0.34	<0.05	<0.05	0.2	0.1	
Well Boring Samples																												
MW1 @10	3/2/94	260	<1	<1	<10	--	<20	<20	970	770	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW2 @10	3/1/94	<1	<1	<1	<10	--	<90	<90	<5	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW3 @10	3/1/94	620	<1	5.6	<10	--	<90	<90	840	2,700	7.4	<5	11	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW4 @10	3/2/94	1.9	<1	8.9	22	--	<20	<20	<5	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5 @4	6/23/97	<1	--	<1	--	--	<5	<5	<5	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW5 @8	6/23/97	3.1	--	5.1	--	--	<5	<5	5.7	17	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6 @6	6/23/97	<1	--	<1	--	--	<5	<5	<5	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
MW6 @10	6/23/97	4.4	--	6.5	--	--	<5	<5	26	<5	<5	<5	<5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
ESLs Residential Land Use ¹		100	100	100	370	370	120	9,300	2,300	11,000	7,800	220	370	1,500	200	0.25	2.8	35	NE	NE	40	8.9	1.3	NE	NE	11	85	
ESLs Commercial/Industrial Land Use ¹		180	180	180	2,500	2,500	270	9,300	4,700	11,000	7,800	480	950	1,500	750	0.25	2.8	120	NE	NE	40	8.9	2.8	NE	NE	11	85	

Notes

TPH = Total petroleum hydrocarbons
DCA = Dichloroethane
TCA = Trichloroethane
PCE = Tetrachloroethane
NE = No value established
mg/kg = milligrams per kilogram = parts per million
µg/kg = micrograms per kilogram = parts per billion
<1 = Chemical not present at a concentration greater than the laboratory detection limit shown or stated on test reports
-- = Chemical not tested for

ESLs = San Francisco Bay Regional Water Quality Control Board, Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, Interim Final November 2007, Revised May 2008
¹ = Table B Shallow Soil Screening Levels, Groundwater is not a Current or Potential Source of Drinking Water



Analyte	Units	Sample ID																		Regulatory Criteria			
		B-1@2	B-1@ 7.5	B-1@10	B-1@12	B-1@15	B-1@17	B-1@20	B-2@5	B-2@7.5	B-2@10	B-2@12	B-2@15	B-2@17	B-2@19.5	B-3@1	B-3@5	B-3@10	B-3@12	B-3@15	B-3@17	ESLs ¹ Residential Land Use	ESLs ¹ Commerical/Industrial Land Use
Date Sample Depth	feet	7/27/2009 2.0	7/27/2009 7.5	7/27/2009 10	7/27/2009 12	7/27/2009 15	7/27/2009 17	7/27/2009 20	7/27/2009 5.0	7/27/2009 7.5	7/27/2009 10	7/27/2009 12	7/27/2009 15	7/27/2009 17	7/27/2009 19.5	7/27/2009 1.0	7/27/2009 5.0	7/27/2009 10	7/27/2009 12	7/27/2009 15	7/27/2009 17		
Petroleum Hydrocarbons																							
TPHg	mg/kg	<0.98	<0.97	170	320	1.1	2.0^Y	<1.0	<0.97	<1.0	<0.96	<1.0	16^Y	33^Y	<0.99	--	--	<1.0	<0.98	8.7^Y	--	100	180
TPHd	mg/kg	29^Y	15^Y	--	57^Y	--	--	--	<1.0	--	1.9^Y	--	17^Y	--	--	<5.0	4.0^Y	7.6^Y	33^Y	150^Y	44^Y	100	180
TPHmo	mg/kg	450	98	--	<5.0	--	--	--	5.9	--	<5.0	--	<5.0	--	--	33	10	<5.0	110	400	140	370	2,500
TPHhy	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	370	2,500
Volatle Organic Compounds																							
Benzene	µg/kg	<4.7	<4.6	<500	<830	10	34	<4.6	<5.0	<4.7	<4.8	<4.7	<4.6	<50	<4.8	--	--	<4.9	<4.8	<4.8	--	120	270
Toluene	µg/kg	<4.7	<4.6	1,300	4,000	<4.9	<4.7	<4.6	<5.0	<4.7	<4.8	<4.7	<4.6	<50	<4.8	--	--	<4.9	<4.8	<4.8	--	9,300	9,300
Ethylbenzene	µg/kg	<4.7	<4.6	6,900	12,000	22	23	<4.6	<5.0	<4.7	<4.8	<4.7	<4.6	<50	<4.8	--	--	<4.9	<4.8	<4.8	--	2,300	4,700
Xylenes	µg/kg	<9.4	<9.2	28,000	53,000	65	<9.4	<9.2	<10	<9.4	<9.6	<9.4	<9.2	<100	<9.6	--	--	<9.8	<9.6	<9.6	--	11,000	11,000
MTBE	µg/kg	<4.7	<4.6	<500	<830	<4.9	<4.7	<4.6	<5.0	<4.7	<4.8	<4.7	<4.6	<50	<4.8	--	--	<4.9	<4.8	<4.8	--	8,400	8,400
TBA	µg/kg	<95	<92	<10,000	<17,000	<97	<95	<93	<100	<94	<96	<93	<930	<1,000	<96	--	--	<99	<95	<96	--	100,000	110,000
TAME	µg/kg	<4.7	<4.6	<500	<830	<4.9	<4.7	<4.6	<5.0	<4.7	<4.8	<4.7	<4.6	<50	<4.8	--	--	<4.9	<4.8	<4.8	--	NE	NE
DIPE	µg/kg	<4.7	<4.6	<500	<830	<4.9	<4.7	<4.6	<5.0	<4.7	<4.8	<4.7	<4.6	<50	<4.8	--	--	<4.9	<4.8	<4.8	--	NE	NE
ETBE	µg/kg	<4.7	<4.6	<500	<830	<4.9	<4.7	<4.6	<5.0	<4.7	<4.8	<4.7	<4.6	<50	<4.8	--	--	<4.9	<4.8	<4.8	--	NE	NE
1,2-DCA	µg/kg	<4.7	<4.6	<500	<830	<4.9	<4.7	<4.6	<5.0	<4.7	<4.8	<4.7	<4.6	<50	<4.8	--	--	<4.9	<4.8	<4.8	--	220	480
1,2-DBA	µg/kg	<4.7	<4.6	<500	<830	<4.9	<4.7	<4.6	<5.0	<4.7	<4.8	<4.7	<4.6	<50	<4.8	--	--	<4.9	<4.8	<4.8	--	19	44
Total Organic Carbon	%	--	--	--	--	--	--	--	0.53	--	--	--	--	--	--	--	--	--	--	--	--	NE	NE

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline
 TPHd = Total Petroleum Hydrocarbons as diesel
 TPHmo = Total Petroleum Hydrocarbons as motor oil
 TPHhy = Total Petroleum Hydrocarbons as hydraulicfluid
 DCA = Dichloroethane
 DBA = Dibromoethane
 TCA = Trichloroethane
 MTBE = tert-Butyl methyl ether
 TBA = tert-Butyl alcohol
 DIPE = Diisopropyl ether
 ETBE = Ethyl tert butyl ether
 TAME = Methyl tert amyl ether

µg/kg = micrograms per kilogram
 mg/kg = milligrams per kilogram
 Detected concentrations are shown in **Bold**
 ND = Not detected at or above respective reporting limit
 < = not detected at or above the listed laboratory reporting limit
 NE = Not established
 -- Not Analyzed

Y = Sample exhibits chromatographic pattern which does not resemble standard

ESLs = San Francisco Bay Regional Water Quality Control Board, Screening for Environmental Concerns at Sites with Contaminated Soil and Grounwater, Interim Final November 2007, Revised May 2008
¹ = Table B Shallow Soil Screening Levels, Groundwater is not a Current or Potential Source of Drinking Water



Analyte	Units	Sample ID																Regulatory Criteria			
		B-4a@5	B-4a@7.5	B-4a@10	B-4a@12	B-4a@15	B-4a@18	B-5@2	B-5@7.5	B-5@12	B-5@15	B-6@2	B-6@7.5	B-6@12	B-6@15	B-7@5	B-7@7.5	B-7@12	B-7@15	ESLs ² Residential Land Use	ESLs ² Commerical/Industrial Land Use
Date Sample Depth	feet	7/27/2009 5.0	7/27/2009 7.5	7/27/2009 10	7/27/2009 12	7/27/2009 15	7/27/2009 18	7/27/2009 2.0	7/27/2009 7.5	7/27/2009 12	7/27/2009 15	7/27/2009 2.0	7/27/2009 7.5	7/27/2009 12	7/27/2009 15	7/27/2009 5.0	7/27/2009 7.5	7/27/2009 12	7/27/2009 15		
Petroleum Hydrocarbons																					
TPHg	mg/kg	--	--	--	4.5 ^Y	<0.99	--	<0.96	<1.0	8.8 ^Y	<0.96	<1.0	<0.99	<0.96	11 ^Y	<0.97	<1.0	<1.0	<0.97	100	180
TPHd	mg/kg	1.9 ^Y	1.0 ^Y	1.6 ^Y	1,100	310	42	4.1 ^Y	<1.0	1,100	2.8 ^Y	55 ^Y	<0.99	29 ^Y	17 ^Y	10 ^Y	2.9 ^Y	1.6 ^Y	<1.0	100	180
TPHmo	mg/kg	10	9.8	13	850	120	23	32	6.9	520	<5.0	460	<5.0	39	<5.0	53	6.6	<5.0	<5.0	370	2,500
TPHhy	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	370	2,500
Volatile Organic Compounds																					
Benzene	µg/kg	--	--	--	<47	<4.8	--	<4.8	<4.8	<5.0	<4.9	<4.9	<4.8	<4.8	39	<4.8	<4.8	<4.8	<4.9	120	270
Toluene	µg/kg	--	--	--	<47	<4.8	--	<4.8	<4.8	<5.0	<4.9	<4.9	<4.8	<4.8	<25	<4.8	<4.8	<4.8	<4.9	9,300	9,300
Ethylbenzene	µg/kg	--	--	--	<47	<4.8	--	<4.8	<4.8	<5.0	<4.9	<4.9	<4.8	<4.8	80	<4.8	<4.8	<4.8	<4.9	2,300	4,700
Xylenes	µg/kg	--	--	--	<94	<9.6	--	<9.6	<9.6	<10	<9.8	<9.8	<9.6	<9.6	<50	<9.6	<9.6	<9.6	<9.8	11,000	11,000
MTBE	µg/kg	--	--	--	<47	<4.8	--	<4.8	<4.8	<5.0	<4.9	<4.9	<4.8	<4.8	<25	<4.8	<4.8	<4.8	<4.9	8,400	8,400
TBA	µg/kg	--	--	--	<940	<97	--	<96	<96	<100	<99	<98	<97	<96	<500	<96	<96	<97	<98	100,000	110,000
TAME	µg/kg	--	--	--	<47	<4.8	--	<4.8	<4.8	<5.0	<4.9	<4.9	<4.8	<4.8	<25	<4.8	<4.8	<4.8	<4.9	NE	NE
DIPE	µg/kg	--	--	--	<47	<4.8	--	<4.8	<4.8	<5.0	<4.9	<4.9	<4.8	<4.8	<25	<4.8	<4.8	<4.8	<4.9	NE	NE
ETBE	µg/kg	--	--	--	<47	<4.8	--	<4.8	<4.8	<5.0	<4.9	<4.9	<4.8	<4.8	<25	<4.8	<4.8	<4.8	<4.9	NE	NE
1,2-DCA	µg/kg	--	--	--	<47	<4.8	--	<4.8	<4.8	<5.0	<4.9	<4.9	<4.8	<4.8	<25	<4.8	<4.8	<4.8	<4.9	220	480
1,2-DBA	µg/kg	--	--	--	<47	<4.8	--	<4.8	<4.8	<5.0	<4.9	<4.9	<4.8	<4.8	<25	<4.8	<4.8	<4.8	<4.9	19	44
Total Organic Carbon	%	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	NE	NE

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline
 TPHd = Total Petroleum Hydrocarbons as diesel
 TPHmo = Total Petroleum Hydrocarbons as motor oil
 TPHhy = Total Petroleum Hydrocarbons as hydraulic fluid
 DCA = Dichloroethane
 DBA = Dibromoethane
 TCA = Trichloroethane
 MTBE = tert-Butyl methyl ether
 TBA = tert-Butyl alcohol
 DIPE = Diisopropyl ether
 ETBE = Ethyl tert butyl ether
 TAME = Methyl tert amyl ether

µg/kg = micrograms per kilogram
 mg/kg = milligrams per kilogram
 Detected concentrations are shown in **Bold**
 ND = Not detected at or above respective reporting limit
 < = not detected at or above the listed laboratory reporting limit
 NE = Not established
 -- Not Analyzed

Y = Sample exhibits chromatographic pattern which does not resemble standard

ESLs = San Francisco Bay Regional Water Quality Control Board, Screening for Environmental Concerns at Sites with Contaminated Soil and Grounwater, Interim Final November 2007, Revised May 2008
¹ = Table B Shallow Soil Screening Levels, Groundwater is not a Current or Potential Source of Drinking Water



Analyte	Units	Sample ID																		Regulatory Criteria		
		B-8@7.5	B-8@15	B-8@20	B-9@5	B-9@10	B-9@15	B-9@20	B-10@2	B-10@5	B-10@10	B-10@15	B-11@2	B-11@7.5	B-11@12	B-12@5	B-12@7.5	B-12@12	B-12@15	B-13@8	ESLs ² Residential Land Use	ESLs ² Commerical/Industrial Land Use
Date	Sample Depth	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	7/27/2009	10/19/2009		
	feet	7.5	15	20	5.0	10	15	20	2.0	5.0	10	15	2.0	7.5	12	5.0	7.5	12	15	8.0		
Petroleum Hydrocarbons																						
TPHg	mg/kg	13^Y	8.0	<0.98	1.9	56	140	<1.0	<1.0	<1.0	<1.0	<1.0	<0.99	<1.0	<1.0	<1.0	<1.0	7.8^Y	<0.97	<0.99	100	180
TPHd	mg/kg	9.3^Y	1.3^Y	<1.0	28^Y	44^Y	31^Y	<0.99	<1.0	2.5^Y	5.7^Y	1.7^Y	42^Y	<0.99	1.4^Y	<1.0	9.1^Y	590	<1.0	73^Y	100	180
TPHmo	mg/kg	<5.0	<5.0	<5.0	46	49	19	<5.0	<5.0	10	21	<5.0	440	<5.0	13	<5.0	88	270	<5.0	300^Y	370	2,500
TPHhy	mg/kg	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	390	370	2,500
Volatle Organic Compounds																						
Benzene	µg/kg	28	500	140	<4.9	<250	<250	<4.8	<4.9	<4.7	<4.9	<4.7	<5.0	<4.8	<4.9	<4.9	<5.0	<250	<4.8	<5.0	120	270
Toluene	µg/kg	<26	140	<4.8	<4.9	<250	<250	<4.8	<4.9	<4.7	<4.9	<4.7	<5.0	<4.8	<4.9	<4.9	<5.0	<250	<4.8	<5.0	9,300	9,300
Ethylbenzene	µg/kg	790	250	37	<4.9	3,300	2,800	<4.8	<4.9	<4.7	<4.9	<4.7	<5.0	<4.8	<4.9	<4.9	<5.0	<250	<4.8	<5.0	2,300	4,700
Xylenes	µg/kg	320	770	9.7	<9.8	9,900	8,600	<9.6	<9.8	<9.4	<9.8	<9.4	<10	<9.6	<9.8	<9.8	<10	<500	<9.6	<10	11,000	11,000
MTBE	µg/kg	<26	<19	<4.8	<4.9	<250	<250	<4.8	<4.9	<4.7	<4.9	<4.7	<5.0	<4.8	<4.9	<4.9	<5.0	<250	<4.8	--	8,400	8,400
TBA	µg/kg	<520	<390	<97	<97	<5,000	<5,000	<96	<98	<94	<99	<95	<100	<95	<98	<97	<99	<5,000	<96	--	100,000	110,000
TAME	µg/kg	<26	<19	<4.8	<4.9	<250	<250	<4.8	<4.9	<4.7	<4.9	<4.7	<5.0	<4.8	<4.9	<4.9	<5.0	<250	<4.8	--	NE	NE
DIPE	µg/kg	<26	<19	<4.8	<4.9	<250	<250	<4.8	<4.9	<4.7	<4.9	<4.7	<5.0	<4.8	<4.9	<4.9	<5.0	<250	<4.8	--	NE	NE
ETBE	µg/kg	<26	<19	<4.8	<4.9	<250	<250	<4.8	<4.9	<4.7	<4.9	<4.7	<5.0	<4.8	<4.9	<4.9	<5.0	<250	<4.8	--	NE	NE
1,2-DCA	µg/kg	<26	<19	<4.8	<4.9	<250	<250	<4.8	<4.9	<4.7	<4.9	<4.7	<5.0	<4.8	<4.9	<4.9	<5.0	<250	<4.8	--	220	480
1,2-DBA	µg/kg	<26	<19	<4.8	<4.9	<250	<250	<4.8	<4.9	<4.7	<4.9	<4.7	<5.0	<4.8	<4.9	<4.9	<5.0	<250	<4.8	--	19	44
Total Organic Carbon	%	0.10	--	--	--	--	--	--	--	0.87	--	--	--	0.05	--	--	--	--	--	--	NE	NE

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline
 TPHd = Total Petroleum Hydrocarbons as diesel
 TPHmo = Total Petroleum Hydrocarbons as motor oil
 TPHhy = Total Petroleum Hydrocarbons as hydraulic fluid
 DCA = Dichloroethane
 DBA = Dibromoethane
 TCA = Trichloroethane
 MTBE = tert-Butyl methyl ether
 TBA = tert-Butyl alcohol
 DIPE = Diisopropyl ether
 ETBE = Ethyl tert butyl ether
 TAME = Methyl tert amyl ether

µg/kg = micrograms per kilogram
 mg/kg = milligrams per kilogram
 Detected concentrations are shown in **Bold**
 ND = Not detected at or above respective reporting limit
 < = not detected at or above the listed laboratory reporting limit
 NE = Not established
 -- Not Analyzed

Y = Sample exhibits chromatographic pattern which does not resemble standard

ESLs = San Francisco Bay Regional Water Quality Control Board, Screening for Environmental Concerns at Sites with Contaminated Soil and Grounwater, Interim Final November 2007, Revised May 2008
¹ = Table B Shallow Soil Screening Levels, Groundwater is not a Current or Potential Source of Drinking Water



Analyte	Units	Sample ID																Regulatory Criteria		
		TW-1	TW-2	TW-3	TW-4	TW-5	B-1†	B-2	B-3	B-4a	B-5	B-6†	B-7	B-8	B-9	B-10	B-12	ESLs ¹	ESLs ² Residential Land Use	ESLs ² Commerical/Industrial Land Use
Date		5/31/1996	5/30/1996	5/30/1996	5/31/1996	5/30/1996	7/30/2009	7/31/2009	7/28/2009	7/28/2009	7/28/2009	7/30/2009	7/28/2009	7/28/2009	7/28/2009	7/28/2009	7/28/2009			
Petroleum Hydrocarbons																				
TVHg	µg/L	13,000	250	<50	11,000	70	41,000	1,300^Y	360^Y	10,000^{>LR,Y}	410^Y	4,400^Y	1,200^Y	6,800^Y	25,000^Y	1,400^Y	500^{Y,b}	210	NE	NE
TPHd	µg/L	37,000	<50	83	1,900	180	--	530^Y	7,600^Y	240,000	3,400	--	910^Y	290^Y	1,600^Y	59,000	27,000	210	NE	NE
TPHmo	µg/L	--	--	--	--	--	--	<300	25,000	110,000	1,500	--	400	<300	<300	33,000	13,000	210	NE	NE
Volatile Organic Compounds																				
Benzene	µg/L	<50	<0.5	<0.5	130	<0.5	630	<0.50	0.57	<0.50	<0.50	280	2.3	400	2,800	<0.50	<2.5 ^b	46	540	1,800
Toluene	µg/L	<50	<0.5	<0.5	66	<0.5	780	<0.50	0.65	0.58	<0.50	4.1	1.3	73	50	<0.50	<2.5 ^b	130	380,000	530,000
Ethylbenzene	µg/L	<50	13	<0.5	340	<0.5	910	<0.50	<0.50	0.75	<0.50	90	16	250	950	<0.50	<2.5 ^b	43	170,000	170,000
Xylenes	µg/L	380	3.4	<0.5	260	<0.5	3,700	<0.50	<0.50	0.66	<0.50	14.71	2.46	760	2,850	<0.50	<2.5 ^b	100	160,000	160,000
MTBE	µg/L	--	--	--	--	--	<13	<0.50	0.58	2.1	<0.50	1.6	<0.50	<3.1	<17	1.5	<2.5 ^b	1,800	24,000	80,000
TBA	µg/L	--	--	--	--	--	<250	32	<10	12	<10	19	18	<63	<330	<10	<50 ^b	18,000	NE	NE
TAME	µg/L	--	--	--	--	--	<13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<3.1	<17	<0.50	<2.5 ^b	NE	NE	NE
DIPE	µg/L	--	--	--	--	--	<13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<3.1	<17	<0.50	<2.5 ^b	NE	NE	NE
ETBE	µg/L	--	--	--	--	--	<13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<3.1	<17	<0.50	<2.5 ^b	NE	NE	NE
1,2-DCA	µg/L	<1.0	<1.0	20	<1.0	<1.0	<13	<0.50	<0.50	1.0	<0.50	0.83	<0.50	3.8	<17	1.1	<2.5 ^b	200	200	690
1,2-DBA	µg/L	--	--	--	--	--	<13	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<3.1	<17	<0.50	<2.5 ^b	150	150	510
1,1,1-TCA	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--	--	--	--	--	62	130,000	360,000
PCE	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--	--	--	--	--	120	120	420
Chlorobenzene	µg/L	<1.0	<1.0	<1.0	<1.0	<1.0	--	--	--	--	--	--	--	--	--	--	--	25	13,000	37,000
Total Dissolved Solids	mg/L	--	--	--	--	--	880	770	880	1,200	520	730	990	720	770	970	460	NE	NE	NE

Notes:

TVHg = Total Volatile Hydrocarbons as gasoline
 TPHd = Total Petroleum Hydrocarbons as diesel
 TPHmo = Total Petroleum Hydrocarbons as motor oil
 DCA = Dichloroethane
 DBA = Dibromoethane
 MTBE = tert-Butyl methyl ether
 TBA = tert-Butyl alcohol
 DIPE = Diisopropyl ether
 ETBE = Ethyl tert butyl ether
 TAME = Methyl tert amyl ether
 TCA = Trichloroethane
 PCE = Tetrachloroethene

µg/L = micrograms per liter
 Detected concentrations are shown in **Bold**
 ND = Not detected at or above respective reporting limit
 < = not detected at or above the listed laboratory reporting limit
 NE = Not established
 -- Not Analyzed
 >LR = Response exceeds instrument's linear range
 Y = Sample exhibits chromatographic pattern which does not resemble standard
 b = Sample analyzed two minutes after hold time expired. No technical impact on sample data
 † = Sample for TPHd and TPHmo analysis were obtained from B-1, however sample container broke on way to laboratory.
 Sample for TPHd and TPHmo analysis were not obtained from B-6 due to inefficient groundwater recharge

ESLs = San Francisco Bay Regional Water Quality Control Board, Screening for Environmental Concerns at Sites with Contaminated Soil and Grounwater, Interim Final November 2007, Revised May 2008
¹ = Table F-1b Final Groundwater Screening Levels
² = Table E-1: Groundwater Screening Levels for Evaluation of Potential Vapor Intrusion Concerns (volatile chemicals only)



Analyte	Units	Sample ID											Regulatory Criteria		
		SG-1	SG-2	SG-3	SG-3 (Resample)	SG-4	SG-5	SG-6	SG-6	SG-6	SG-7	SG-7 (Duplicate)	Air Blank	ESLs ¹ Lowest Residential Exposure	ESLs ¹ Lowest Commerical/Industrial Exposure
Sample Depth	feet	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	n/a		
Purge Volume		1.0	1.0	1.0	1.0	1.0	1.0	1.0	3.0	7.0	1.0	1.0	--		
Date		7/31/2009	7/31/2009	7/31/2009	7/31/2009	7/31/2009	7/31/2009	7/31/2009	7/31/2009	7/31/2009	7/31/2009	7/31/2009	7/31/2009		
Petroleum Hydrocarbons															
TPHg	µg/m ³	<10,000	<10,000	<10,000	<10,000	<10,000	<10,000	<10,000	<10,000	<10,000	36,000	31,000	<10,000	10,000	29,000
TPHd	µg/m ³	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	<50,000	10,000	29,000
Volatile Organic Compounds															
Benzene	µg/m ³	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	<80	84	280
Toluene	µg/m ³	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	<200	63,000	180,000
Ethylbenzene	µg/m ³	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	980	3,300
m,p-Xylene	µg/m ³	300	<200	<200	<200	<200	320	250	<200	<200	260	230	<200	21,000	21,000
o-Xylene	µg/m ³	130	<100	<100	<100	<100	140	120	<100	<100	100	100	<100		
MTBE	µg/m ³	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	9,400	31,000
Dissolved Gases															
Methane	% Vol	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	NE	NE
Oxygen	% Vol	16	9.6	20	19	11	13	8.7	3.2	9.7	16	6.8	21	NE	NE
Carbon Dioxide	% Vol	4.0	7.2	1.5	2.0	9.2	6.8	11	16	10	4.9	12	<1.0	NE	NE
Leak Check Compound															
% of 1,1-Difluoroethane Detected	%	<0.04	<0.04	0.14	0.07	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04		
1,1-Difluoroethane	µg/m ³	<10,000	<10,000	37,000	19,000	<10,000	<10,000	<10,000	<10,000	<10,000	<10,000	<10,000	<10,000	NE	NE

Notes:

TPHg = Total Petroleum Hydrocarbons as gasoline
TPHd = Total Petroleum Hydrocarbons as diesel
Detected concentrations are shown in **Bold**

NE = Not established

µg/m³ = micrograms per cubic meter

-- = Not Applicable

< = not detected at or above the listed laboratory reporting limit

ESLs = San Francisco Bay Regional Water Quality Control Board, Screening for Environmental Concerns at Sites with Contaminated Soil and Grounwater, Interim Final November 2007, Revised May 2008

¹ = Table E-2 Sahlflow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns (volatile chemicals only)



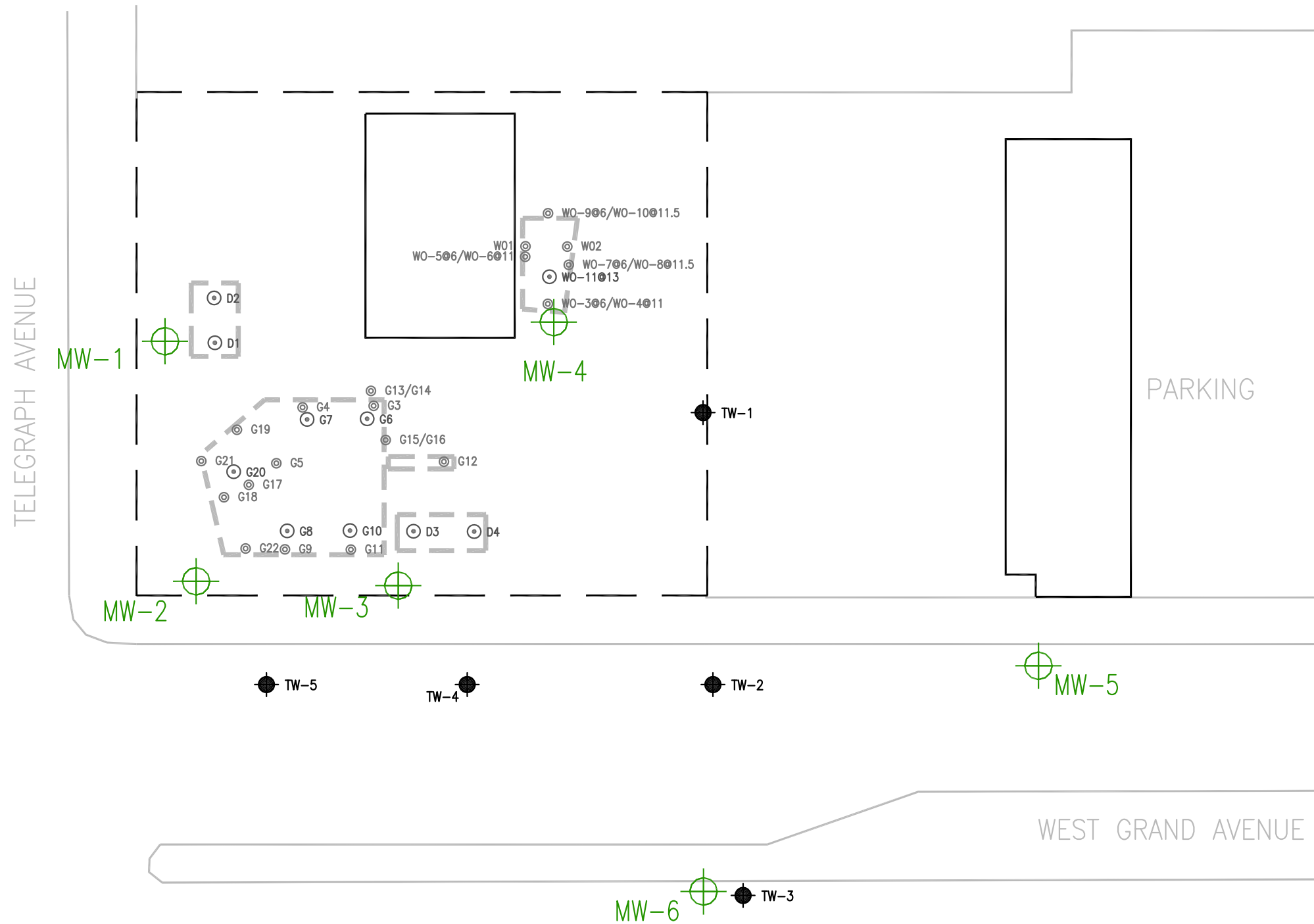
Analyte	Units	Sample ID													Regulatory Screening Criteria	
		MW-7 @ 1.5	MW-7 @ 1.5 RT	MW-7 @ 1.5 BOC	MW-7 @ 2	MW-7 @ 5	MW-7 @ 7	MW-7 @ 10	MW-7 @ 15	MW-8@1'	MW-8@3'	MW-8@10'	MW-8@12'	MW-8@14'	ESLs Residential Land Use*	ESLs Commercial Industrial Worker*
Sample Depth	ft	1.5'	1.5'	1.5'	2'	5'	7'	10'	15'	1.0'	3.0'	10'	12'	14'		
Sample Date		4/30/2011	4/30/2011	4/30/2011	4/30/2011	4/30/2011	4/30/2011	4/30/2011	4/30/2011	8/2/2011	8/2/2011	8/2/2011	8/2/2011	8/2/2011		
Hydrocarbons																
TPHg	mg/kg	<1.1	--	--	<1.1 ^b	<1.0	<1.0	<0.94	<0.93	<0.99	<0.99	10^Y	3.3^Y	8.1^Y	100	180
TPHd	mg/kg	41^Y	45^{Y**}	36^{Y**}	14^{Yb}	<1.0	2.6^Y	1.4^Y	2.7^Y	70^Y	<0.99	18^Y	11^Y	2.7^Y	100	180
TPHmo	mg/kg	240	170^{**}	160^{**}	66^b	<5.0	<5.0	<5.0	<5.0	390	11^Y	<5.0	<5.0	<5.0	370	2,500
VOCs																
Benzene	µg/kg	<4.8	--	--	<5.0 ^b	<4.6	<4.8	<4.7	<4.6	<4.9	<4.6	<4.9	<4.8	<4.9	120	270
Toluene	µg/kg	<4.8	--	--	<5.0 ^b	<4.6	<4.8	<4.7	<4.6	<4.9	<4.6	<4.9	<4.8	<4.9	9,300	9,300
Ethylbenzene	µg/kg	<4.8	--	--	<5.0 ^b	<4.6	<4.8	<4.7	<4.6	<4.9	<4.6	<4.9	<4.8	25	2,300	4,700
Total Xylenes	µg/kg	<9.6	--	--	<10.0 ^b	<9.2	<9.6	<9.4	<9.2	<9.8	<9.2	<9.8	<9.6	8.3	11,000	11,000
MTBE	µg/kg	<4.8	--	--	<5.0 ^b	<4.6	<4.8	<4.7	<4.6	<4.9	<4.6	<4.9	<4.8	<4.9	8,400	8,400
TBA	µg/kg	<95	--	--	<99 ^b	<93	<97	<94	<92	<98	<92	<97	<97	<97	100,000	110,000
DIPE	µg/kg	<4.8	--	--	<5.0 ^b	<4.6	<4.8	<4.7	<4.6	<4.9	<4.6	<4.9	<4.8	<4.9	NE	NE
ETBE	µg/kg	<4.8	--	--	<5.0 ^b	<4.6	<4.8	<4.7	<4.6	<4.9	<4.6	<4.9	<4.8	<4.9	NE	NE
TAME	µg/kg	<4.8	--	--	<5.0 ^b	<4.6	<4.8	<4.7	<4.6	<4.9	<4.6	<4.9	<4.8	<4.9	NE	NE
1,2-DCA	µg/kg	<4.8	--	--	<5.0 ^b	<4.6	<4.8	<4.7	<4.6	<4.9	<4.6	<4.9	<4.8	<4.9	220	480
1,2-DBA	µg/kg	<4.8	--	--	<5.0 ^b	<4.6	<4.8	<4.7	<4.6	<4.9	<4.6	<4.9	<4.8	<4.9	19	44

Notes:

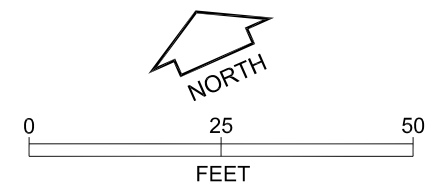
TPHg = Total Petroleum Hydrocarbons as gasoline
 TPHd = Total Petroleum Hydrocarbons as diesel
 TPHmo = Total Petroleum Hydrocarbons as motor oil
 VOCs = Volatile Organic Compounds
 MTBE = Methyl tert-butyl ether
 TBA = tert-butyl alcohol
 DIPE = Isopropyl Ether
 ETBE = Ethyl tert-butyl ether
 TAME = Methyl tert-amyl ether
 1, 2-DCA = 1, 2-Dichloroethane
 1,2-DBA = 1, 2-Dibromoethane
 mg/kg = Milograms per kilogram
 µg/kg = micrograms per kilogram

Detected Concentrations shown in **Bold**
 <25 = Not detected above laboratory detection limit
 -- = Not Analyzed
 Y = Sample exhibits chromatographic pattern which does not resemble standard
^b = Sample was analyzed outside of hold time
 ESL = Environmental Screening Levels, RWQCB Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater
 -- Interim Final, November 2007, Revised May 2008
 * = Table B - Groundwater is not a Current or Potential Source of Drinking Water
 ** = TPHd and mo with Silica Gel Cleanup
 RT = Retested using Silica Gel Cleanup
 BOC = Bottom of core
 NE = Not Established

M: \Drafting\JOBFILES\2011\04.B0609004\Drawings\B04.B0609004-03 Samp Loc.dwg 10-11-11 11:14:06 AM began

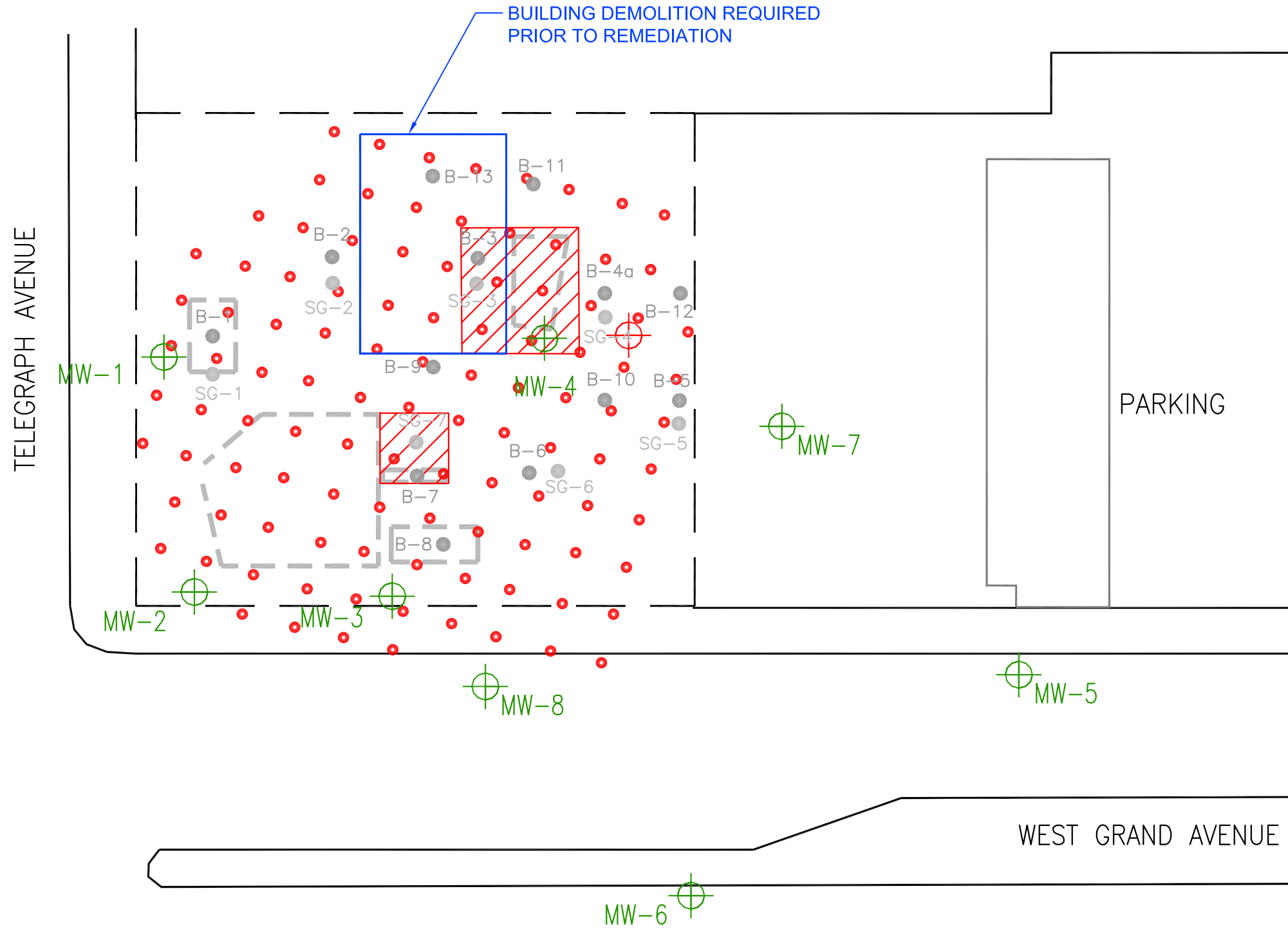


- LEGEND**
- ⊙ G5 APPROXIMATE LOCATION OF PREVIOUS SIDEWALL SAMPLE (1990)
 - ⊙ G20 APPROXIMATE LOCATION OF PREVIOUS BOTTOM SAMPLE (1990)
 - TW-4 APPROXIMATE LOCATION OF TEMPORARY WELL POINT (1996)
 - ⊕ MONITORING WELL LOCATION
 - ▭ LIMITS OF EXCAVATION

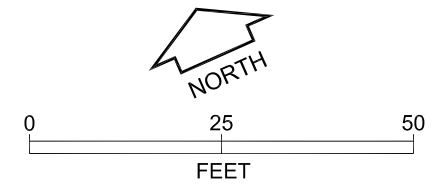


SAMPLE LOCATIONS 1990-1997
 2250 Telegraph Avenue
 Oakland, California

M: \Drafting\JOBFILES\2011\04.B0609004\Drawings\B04.B0609004-12 RA4.dwg 11-15-11 11:29:14 AM began



- LEGEND**
- B-1 APPROXIMATE LOCATION OF TEMPORARY WELL POINT - 2009
 - STRUCTURE
 - - - LIMITS OF EXCAVATION
 - ⊕ MW-8 MONITORING WELL LOCATION
 - SG-7 APPROXIMATE LOCATION OF TEMPORARY SOIL - GAS
 - ▨ SOURCE REMOVAL AREA
 - ORC INJECTION POINT
 - ⊕ APPROXIMATE LOCATION OF NEW MONITORING WELL



REMEDIAL ALTERNATIVE 4: TARGETED SOIL REMOVAL WITH AGGRESSIVE GROUNDWATER TREATMENT
 2250 Telegraph Avenue
 Oakland, California

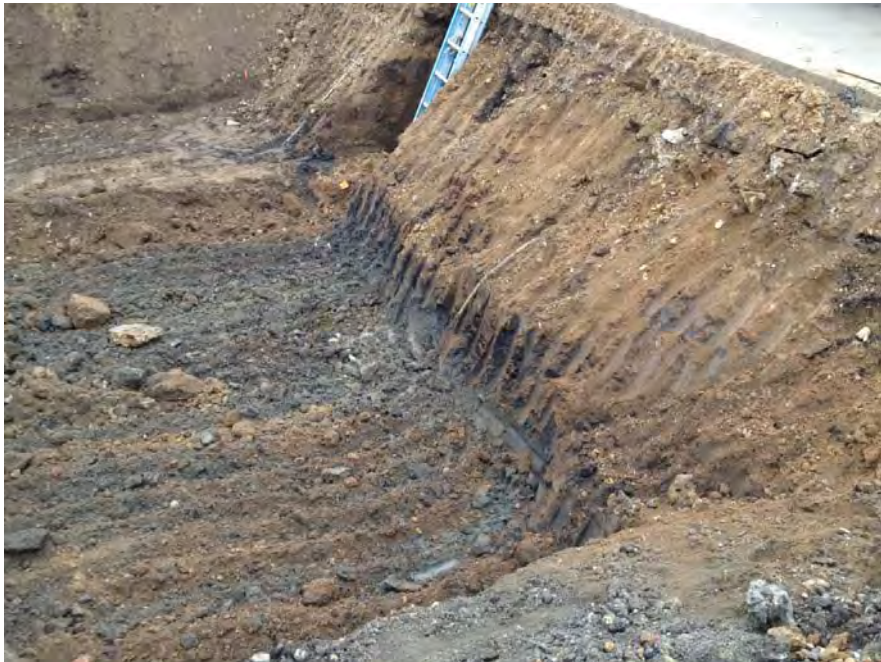
APPENDIX B

PHOTOGRAPHS





Excavation 1 - looking towards the southeast approximately 9 feet bgs.



Excavation 1 - looking towards the northeast approximately 9 feet bgs.





Excavation 1-excavating for shoring installation.



Excavation 1 - looking towards the south with shoring installed.





Excavation 1-looking towards the east at approximately 11 feet bgs



Excavation 1 – final excavation at 17 feet bgs looking towards the south.





Excavation 1-looking towards the southwest. Approximately 2.5 to 3 feet of drainrock backfill.



Excavation 1 – Compacting 4-inch minus backfill; looking towards the west.





Excavation 2 - looking towards the north prior to any overexcavation.



Excavation 2 - looking towards the east





Excavation 2 - looking towards the south



Excavation 2 - looking towards the west





Excavation 2 - overexcavation of the north wall; looking towards the west



Excavation 2 - overexcavation of the north wall; looking towards the north



APPENDIX C

ANALYTICAL LABORATORY REPORTS





Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 246894
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

Sample ID
EX2-D-7C

Lab ID
246894-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 07/17/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 246894
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 07/11/13
Samples Received: 06/26/13

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 07/11/13. The sample was received cold and intact.

TPH-Extractables by GC (EPA 8015B):

Sample was analyzed past hold per the client's request. Matrix spikes QC697280, QC697281 (batch 200572) were not reported because the parent sample required a dilution that would have diluted out the spikes. 246894-001 was prepared outside of hold time; affected data was qualified with "b". No other analytical problems were encountered.

CT # 246894

Subject: RE: AWR 13-05 - C&T Data (246509)
From: Yola Bayram <ybayram@awrcorp.net>
Date: 7/11/2013 10:16 AM
To: "tracy.babjar@ctberk.com" <tracy.babjar@ctberk.com>

Hi Tracy

I believe that we gave you guys a jar of this sample to hold. Can you run it for TPHd? Standard TAT is fine.

Thanks!

Yola Bayram
Geologist
AWR Corp
925 426 1112
313 204 8477 - cell
925 938 1610 - fax
ybayram@awrcorp.net

From: Tracy Babjar [mailto:tracy.babjar@ctberk.com]
Sent: Wednesday, July 03, 2013 8:58 AM
To: Yola Bayram
Subject: AWR 13-05 - C&T Data (246509)

Hi Yola,

Final report, edd and invoice.

Have a great day!

Tracy :)

Please find attached the following files:

- Invoice
- PDF Deliverable
- C&T standard format EDD (246509_standard.zip)

You may also access this data at <https://labline.ctberk.com/>
Email was also sent to: Ccurtis@awrcorp.net, LLinderman@ERSCORP.US,
TFulmer@AWRCORP.NET

C&T sends its e-reports via the Internet as Portable Document Format (PDF) files. Reports in this format, when accompanied by a signed cover page, are considered official reports. **No hardcopy reports will be sent either by fax or U.S. Postal Service unless otherwise requested.** You may distribute your PDF files electronically or as printed hardcopies, as long as they are distributed in their entirety.

CHAIN OF CUSTODY

ct Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
 Berkeley, CA 94710

Phone (510) 486-0900
 Fax (510) 486-0532

Page 1 of 1

Chain of Custody # _____

C&T LOGIN # 246509

Project No: AWR 1305 Sampler: Linderman
 Project Name: 2250 Telegraph/Bettner Report To: Steve Michelson
 Project P. O. No: _____ Company: AWR Corp
 EDD Format: Report Level II III IV Telephone: (925) 938-1600
 Turnaround Time: RUSH Standard Email: SMichelson@awrcorp.net

ANALYTICAL REQUEST

Lab No.	Sample ID.	SAMPLING		MATRIX		# of Containers	CHEMICAL PRESERVATIVE							
		Date Collected	Time Collected	Water	Solid		HCl	H2SO4	HNO3	NaOH	None			
1	EX2- D D-7C	6/26/13	1105	X		6								

ANALYTICAL REQUEST											
X	X										

Notes:

SAMPLE RECEIPT

Intact
 Cold
 On Ice
 Ambient

RELINQUISHED BY:

SM DATE: 6/26/13 TIME: 1130

DATE: _____ TIME: _____

DATE: _____ TIME: _____

RECEIVED BY:

SM DATE: 6/26/13 TIME: 1130

DATE: _____ TIME: _____

DATE: _____ TIME: _____

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 246509 Date Received 6/26/13 Number of coolers 1
 Client AWR Project 2250 Telegraph
 Date Opened 6/26/13 By (print) [Signature] (sign) [Signature]
 Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
- Shipping info _____
- 2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____
- 2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? _____ YES NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) _____ YES NO
6. Indicate the packing in cooler: (if other, describe) _____
 Bubble Wrap Foam blocks Bags None
 Cloth material Cardboard Styrofoam Paper towels
7. Temperature documentation: * Notify PM if temperature exceeds 6°C
 Type of ice used: Wet Blue/Gel None Temp(°C) _____
 Samples Received on ice & cold without a temperature blank; temp. taken with IR gun
 Samples received on ice directly from the field. Cooling process had begun
8. Were Method 5035 sampling containers present? _____ YES NO
 If YES, what time were they transferred to freezer? 1130
9. Did all bottles arrive unbroken/unopened? _____ YES NO
10. Are there any missing / extra samples? _____ YES NO
11. Are samples in the appropriate containers for indicated tests? _____ YES NO
12. Are sample labels present, in good condition and complete? _____ YES NO
13. Do the sample labels agree with custody papers? _____ YES NO
14. Was sufficient amount of sample sent for tests requested? _____ YES NO
15. Are the samples appropriately preserved? _____ YES NO N/A
16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A
17. Did you document your preservative check? _____ YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Total Extractable Hydrocarbons			
Lab #:	246894	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	EX2-D-7C	Batch#:	200572
Matrix:	Soil	Sampled:	06/26/13
Units:	mg/Kg	Received:	06/26/13
Basis:	as received	Prepared:	07/11/13
Diln Fac:	1.000	Analyzed:	07/12/13

Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 246894-001

Analyte	Result	RL
Diesel C10-C24	6.4 b	1.0

Surrogate	%REC	Limits
o-Terphenyl	83 b	62-136

Type: BLANK Cleanup Method: EPA 3630C
 Lab ID: QC697278

Analyte	Result	RL
Diesel C10-C24	ND	0.99

Surrogate	%REC	Limits
o-Terphenyl	101	62-136

b= See narrative
 ND= Not Detected
 RL= Reporting Limit

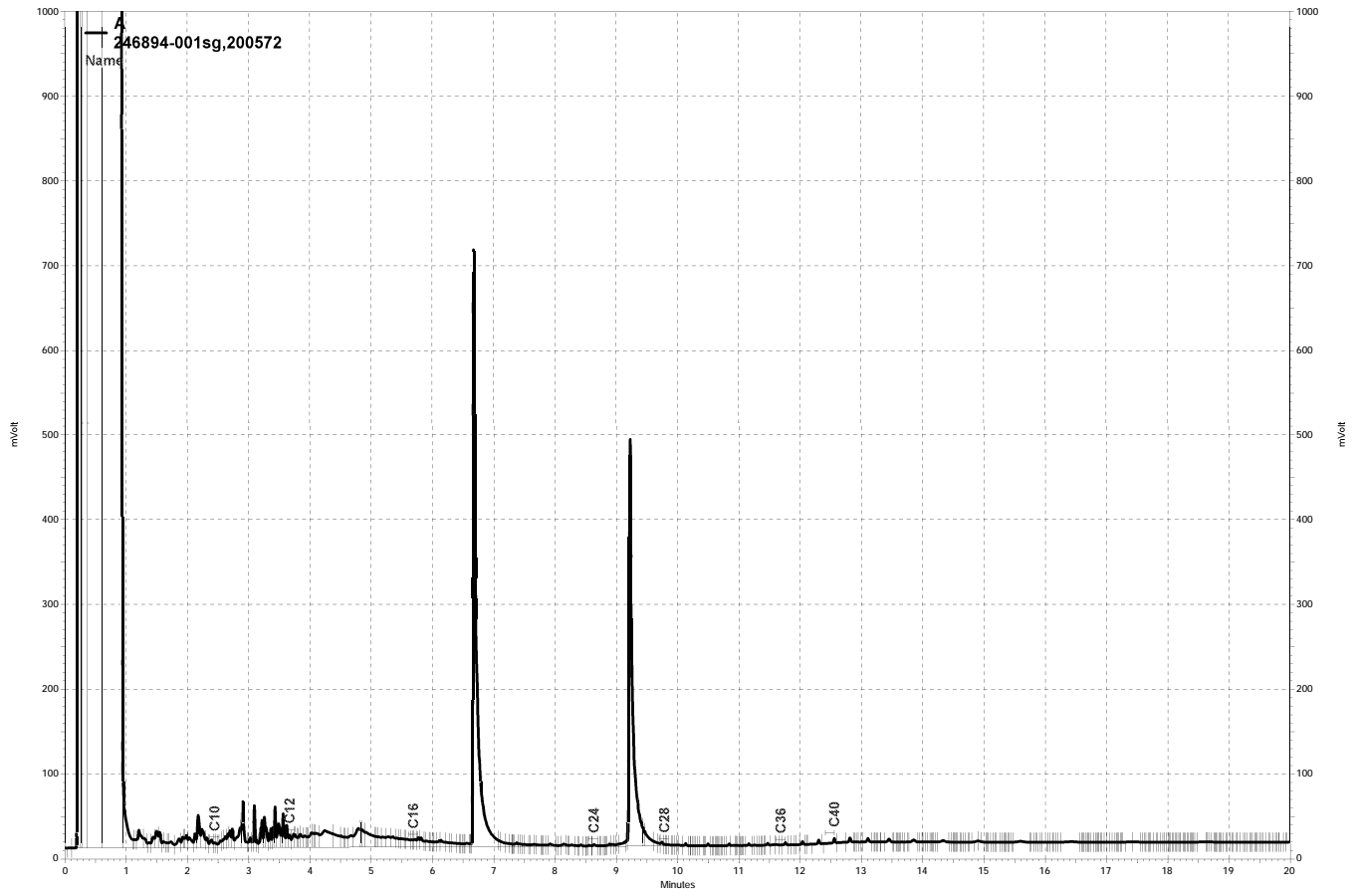
Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	246894	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC697279	Batch#:	200572
Matrix:	Soil	Prepared:	07/11/13
Units:	mg/Kg	Analyzed:	07/12/13

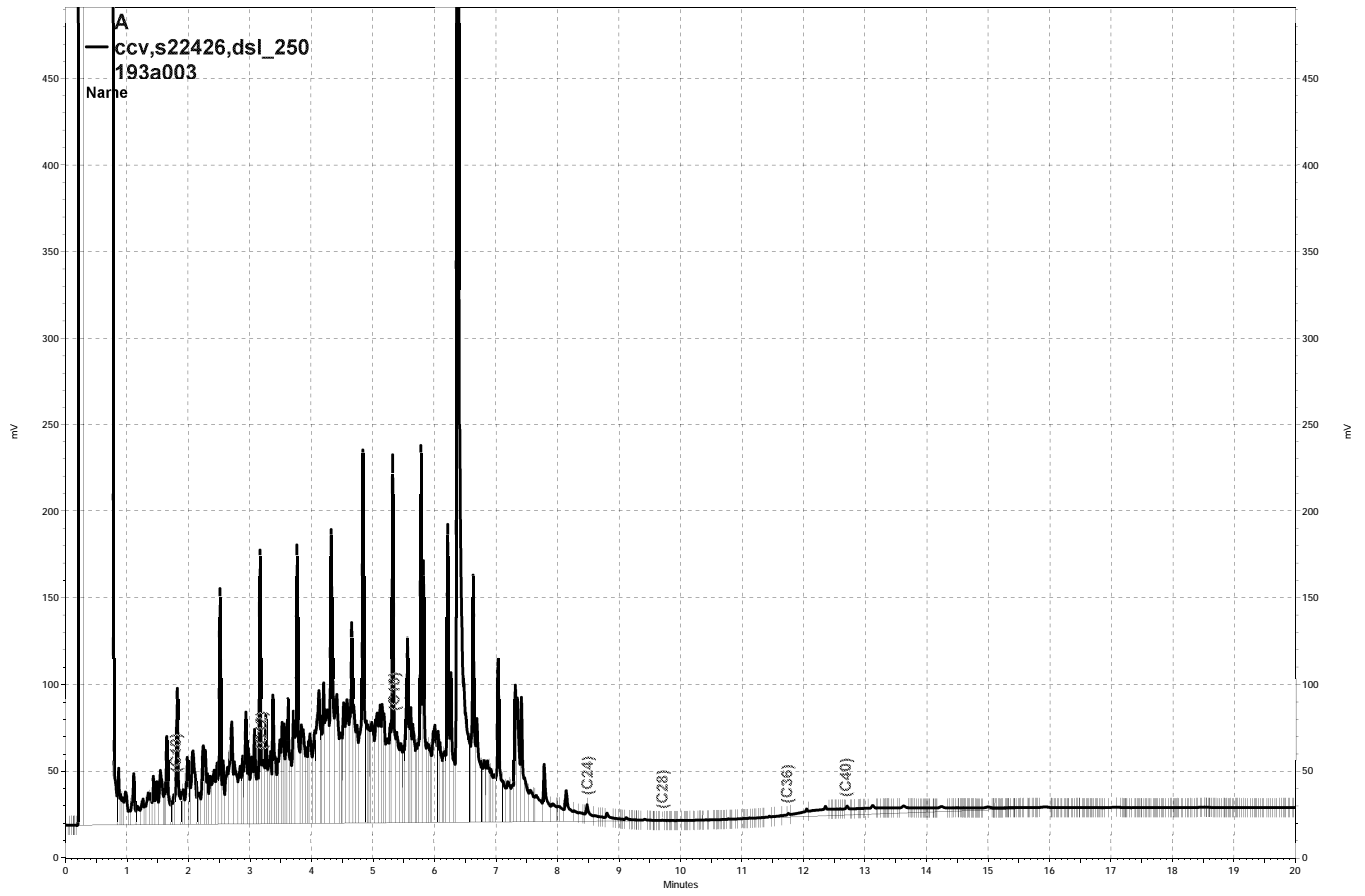
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.66	40.74	82	62-130

Surrogate	%REC	Limits
o-Terphenyl	81	62-136



— \\Lims\gdrive\ezchrom\Projects\GC26\Data\193a025, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\193a003, A



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 246509
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

Sample ID
EX2-D-7C

Lab ID
246509-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 07/03/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 246509
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/26/13
Samples Received: 06/26/13

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 06/26/13. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

Matrix spikes were not performed for this analysis in batch 200210 due to insufficient sample amount. No other analytical problems were encountered.

CHAIN OF CUSTODY

ct Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
 In Business Since 1878

Chain of Custody # _____

2323 Fifth Street
 Berkeley, CA 94710

Phone (510) 486-0900
 Fax (510) 486-0532

C&T LOGIN # 246509

Project No: AWR 1305 Sampler: Linderman
 Project Name: 2250 Telegraph / Bettner Report To: Steve Michelson
 Project P. O. No: _____ Company: AWR Corp
 EDD Format: _____ Report Level II III IV Telephone: (925) 938-1600
 Turnaround Time: RUSH Standard Email: smichelson@awrcorp.net

ANALYTICAL REQUEST											
X	TPH ₄										
X	BTEX, Hexaphenole										
X	Hold Jar										

Lab No.	Sample ID.	SAMPLING		MATRIX		# of Containers	CHEMICAL PRESERVATIVE				
		Date Collected	Time Collected	Water	Solid		HCl	H2SO4	HNO3	NaOH	None
1	EX2- ED -7C	6/26/13	1155		X	6					

Notes: _____

SAMPLE RECEIPT	RELINQUISHED BY:		RECEIVED BY:	
	<input type="checkbox"/> Intact	<i>[Signature]</i>	<i>[Signature]</i>	<i>[Signature]</i>
	<input type="checkbox"/> Cold	6/26/13	6/26/13	6/26/13
	<input type="checkbox"/> On Ice	DATE: _____	DATE: _____	DATE: _____
<input type="checkbox"/> Ambient	TIME: 1130	TIME: 1130	TIME: 1130	
	DATE: _____	DATE: _____	DATE: _____	
	TIME: _____	TIME: _____	TIME: _____	

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 246509 Date Received 6/26/13 Number of coolers 1
Client AWR Project 2250 Telegraph

Date Opened 6/26/13 By (print) AM (sign) [Signature]
Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
Shipping info _____

2A. Were custody seals present? YES (circle) on cooler on samples NO
How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? _____ YES NO N/A

3. Were custody papers dry and intact when received? _____ YES NO

4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) _____ YES NO

6. Indicate the packing in cooler: (if other, describe) _____

- Bubble Wrap
- Foam blocks
- Bags
- None
- Cloth material
- Cardboard
- Styrofoam
- Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C
Type of ice used: Wet Blue/Gel None Temp(°C) _____

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
If YES, what time were they transferred to freezer? _____ 1130

9. Did all bottles arrive unbroken/unopened? _____ YES NO

10. Are there any missing / extra samples? _____ YES NO

11. Are samples in the appropriate containers for indicated tests? _____ YES NO

12. Are sample labels present, in good condition and complete? _____ YES NO

13. Do the sample labels agree with custody papers? _____ YES NO

14. Was sufficient amount of sample sent for tests requested? _____ YES NO

15. Are the samples appropriately preserved? _____ YES NO N/A

16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A

17. Did you document your preservative check? _____ YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A

21. Was the client contacted concerning this sample delivery? _____ YES NO
If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Gasoline by GC/FID (5035 Prep)			
Lab #:	246509	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	EX2-D-7C	Diln Fac:	1.000
Matrix:	Soil	Batch#:	200212
Units:	mg/Kg	Sampled:	06/26/13
Basis:	as received	Received:	06/26/13

Type: SAMPLE Analyzed: 06/29/13
 Lab ID: 246509-001

Analyte	Result	RL
Gasoline C7-C12	6.3 Y	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	131	64-139

Type: BLANK Analyzed: 06/28/13
 Lab ID: QC695788

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246509	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC695787	Batch#:	200212
Matrix:	Soil	Analyzed:	06/28/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.039	104	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	64-139

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246509	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	246546-002	Batch#:	200212
Matrix:	Soil	Sampled:	06/27/13
Units:	mg/Kg	Received:	06/27/13
Basis:	as received	Analyzed:	06/29/13

Type: MS Lab ID: QC695789

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.05280	10.42	8.047	77	42-120

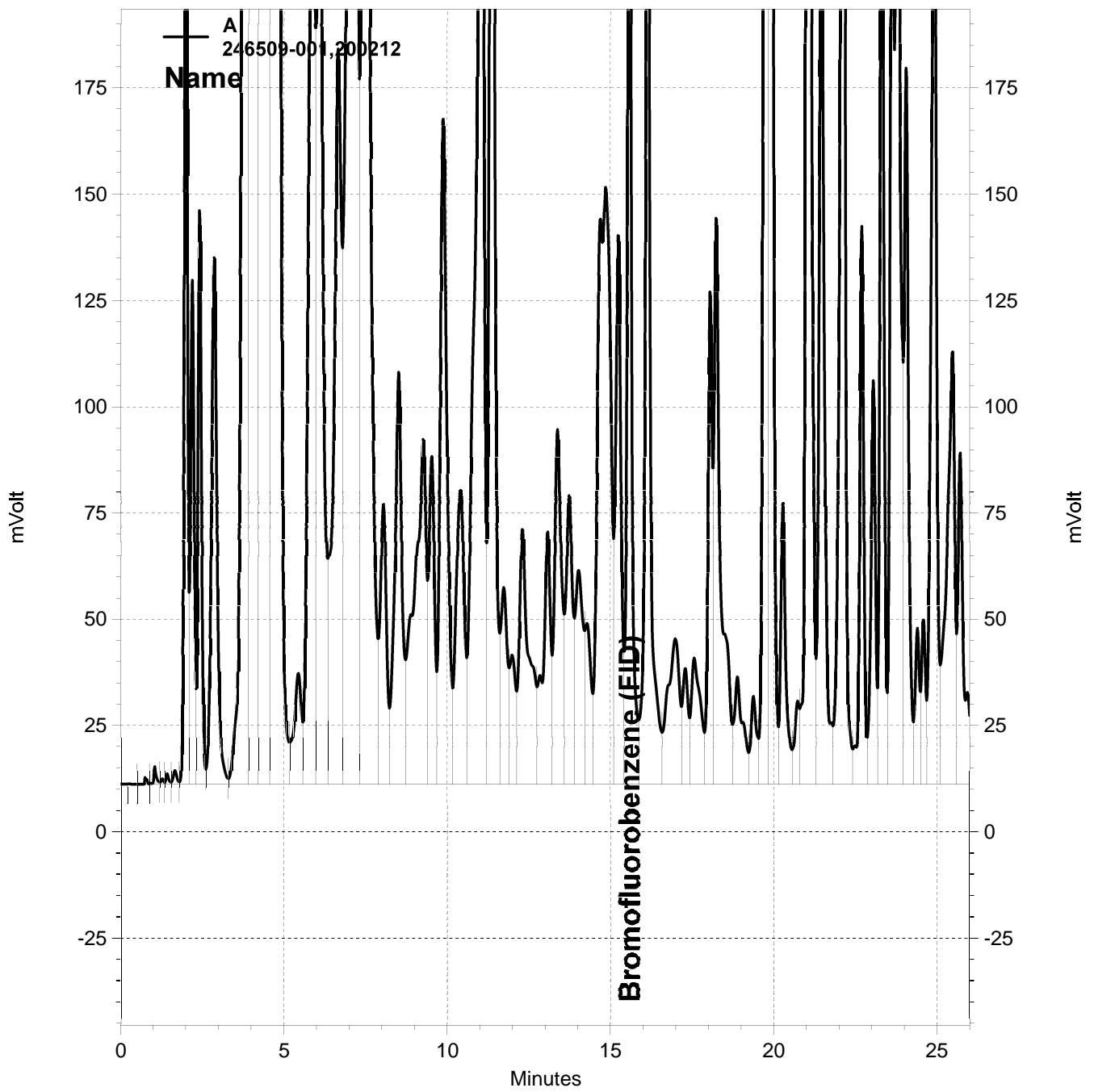
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	64-139

Type: MSD Lab ID: QC695790

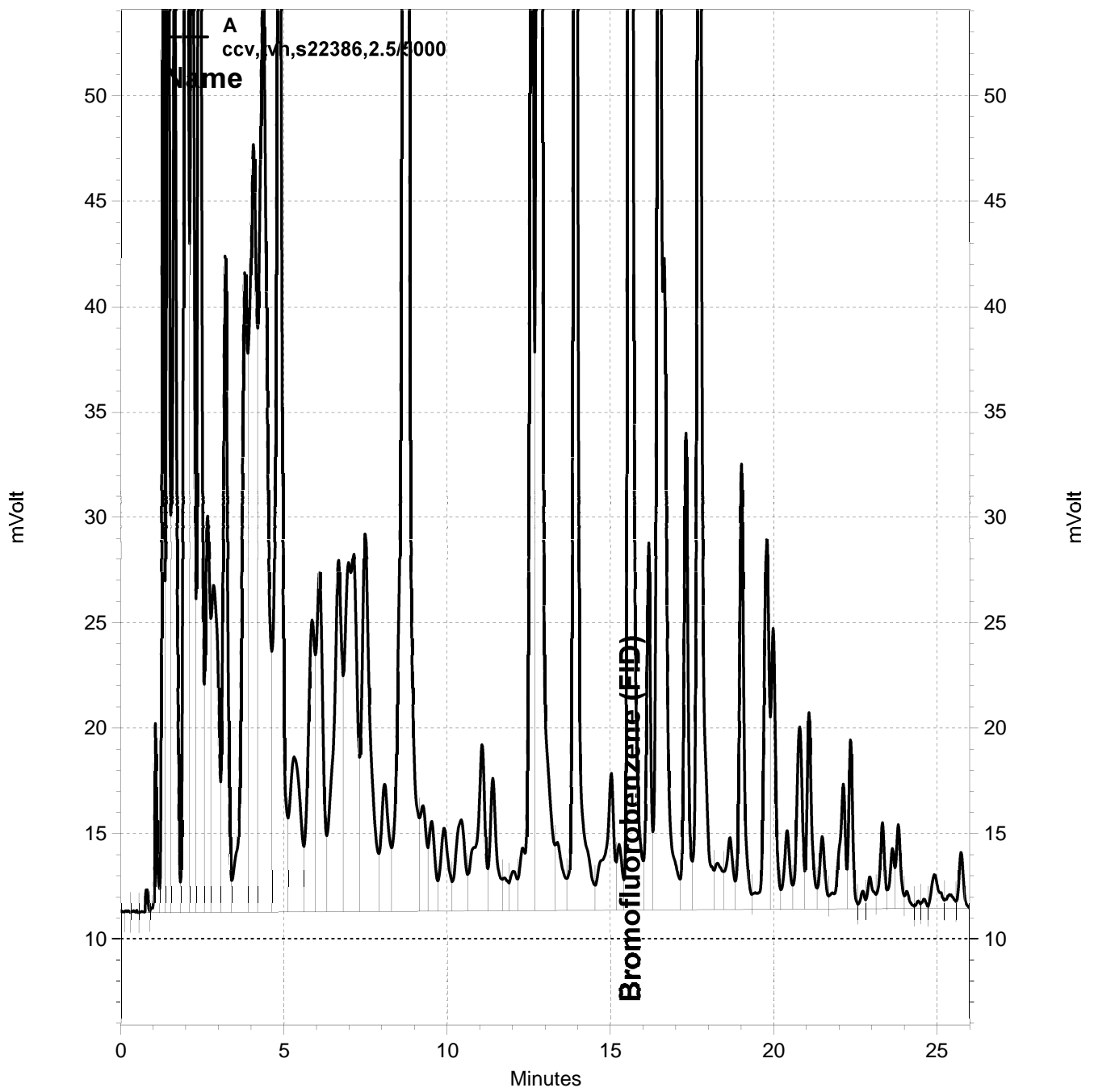
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.20	7.318	72	42-120	7	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	64-139

RPD= Relative Percent Difference



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\179-021, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\179-003, A

BTXE & Oxygenates			
Lab #:	246509	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-D-7C	Diln Fac:	37.48
Lab ID:	246509-001	Batch#:	200210
Matrix:	Soil	Sampled:	06/26/13
Units:	ug/Kg	Received:	06/26/13
Basis:	as received	Analyzed:	06/29/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	3,700
MTBE	ND	190
Isopropyl Ether (DIPE)	ND	190
Ethyl tert-Butyl Ether (ETBE)	ND	190
1,2-Dichloroethane	ND	190
Benzene	ND	190
Methyl tert-Amyl Ether (TAME)	ND	190
Toluene	ND	190
1,2-Dibromoethane	ND	190
Ethylbenzene	ND	190
m,p-Xylenes	ND	190
o-Xylene	ND	190
Naphthalene	240	190

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	100	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	246509	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	200210
Units:	ug/Kg	Analyzed:	06/28/13
Diln Fac:	1.000		

Type: BS Lab ID: QC695774

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	96.64	97	53-141
MTBE	20.00	19.51	98	65-121
Isopropyl Ether (DIPE)	20.00	19.21	96	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	19.53	98	62-121
1,2-Dichloroethane	20.00	20.15	101	74-133
Benzene	20.00	19.82	99	77-126
Methyl tert-Amyl Ether (TAME)	20.00	19.35	97	66-120
Toluene	20.00	19.77	99	76-124
1,2-Dibromoethane	20.00	20.78	104	78-120
Ethylbenzene	20.00	19.87	99	76-127
m,p-Xylenes	40.00	39.56	99	74-126
o-Xylene	20.00	17.44	87	70-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	102	79-127

Type: BSD Lab ID: QC695775

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	92.85	93	53-141	4	34
MTBE	20.00	19.39	97	65-121	1	22
Isopropyl Ether (DIPE)	20.00	19.25	96	57-122	0	26
Ethyl tert-Butyl Ether (ETBE)	20.00	19.37	97	62-121	1	28
1,2-Dichloroethane	20.00	20.69	103	74-133	3	23
Benzene	20.00	18.99	95	77-126	4	20
Methyl tert-Amyl Ether (TAME)	20.00	20.05	100	66-120	4	24
Toluene	20.00	19.54	98	76-124	1	26
1,2-Dibromoethane	20.00	20.50	102	78-120	1	20
Ethylbenzene	20.00	19.01	95	76-127	4	24
m,p-Xylenes	40.00	38.49	96	74-126	3	24
o-Xylene	20.00	18.41	92	70-120	5	22

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	102	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	246509	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC695776	Batch#:	200210
Matrix:	Soil	Analyzed:	06/28/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-124
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	104	79-127

ND= Not Detected
 RL= Reporting Limit



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 246506
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : Buttner
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
EX2-A-4C	246506-001
EX2-A-9C	246506-002
EX2-B-4C	246506-003
EX2-B-9C	246506-004
EX2-D-4C	246506-005
EX2-D-9C	246506-006
EX2-BOT-10C	246506-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 07/03/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 246506
Client: Applied Water Resources
Project: AWR 13-05
Location: Buttner
Request Date: 06/26/13
Samples Received: 06/26/13

This data package contains sample and QC results for seven soil samples, requested for the above referenced project on 06/26/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Matrix spikes were not performed for this analysis in batch 200274 due to insufficient sample amount. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

Matrix spikes QC695897, QC695898 (batch 200231) were not reported because the parent sample was reanalyzed in another batch. Matrix spikes were not performed for this analysis in batch 200210 due to insufficient sample amount. No other analytical problems were encountered.

CHAIN OF CUSTODY

ct Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

Chain of Custody # _____

C&T LOGIN # 246506

2323 Fifth Street
Berkeley, CA 94710

Phone (510) 486-0900
Fax (510) 486-0532

Project No: AWR1305 Sampler: Linderman
Project Name: Buttner Report To: Steve Michelson
Project P. O. No: _____ Company: AWR Corp
EDD Format: _____ Report Level: I II III IV Telephone: (925) 938-1600
Turnaround Time: RUSH Standard Email: smichelson@awrcorp.net

ANALYTICAL REQUEST															
Lab No.	Sample ID.	SAMPLING		MATRIX			# of Containers	CHEMICAL PRESERVATIVE					PH _g	Other	
		Date Collected	Time Collected	Water	Solid			HCl	H2SO4	HNO3	NaOH	None			
1	EX2-A-4C	6/26/13	1030		X									X	TPH _g BTEX, NpH ₄ Leak Hold Jar
2	EX2-A-9C		1035		X									X	
3	EX2-B-4C		1040		X									X	
4	EX2-B-9C		1045		X									X	
5	EX2-D-4C		1050		X									X	
6	EX2-D-9C		1055		X									X	
7	EX2-BOT-10C		1100		X									X	

Notes:

SAMPLE RECEIPT
 Intact
 Cold
 On Ice
 Ambient

RELINQUISHED BY:
[Signature] 36-25-13 1130
DATE: _____ TIME: _____
DATE: _____ TIME: _____
DATE: _____ TIME: _____

RECEIVED BY:
[Signature] 6/26/13 1130
DATE: _____ TIME: _____
DATE: _____ TIME: _____
DATE: _____ TIME: _____

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 246506 Date Received 6/26/13 Number of coolers 1
Client AWR Project Buttner

Date Opened 6/26/13 By (print) [Signature] (sign) [Signature]
Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO

2A. Were custody seals present? YES (circle) on cooler on samples NO
How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? _____ YES NO N/A

3. Were custody papers dry and intact when received? _____ YES NO

4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) _____ YES NO

6. Indicate the packing in cooler: (if other, describe) _____

- Bubble Wrap Foam blocks Bags None
- Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) _____

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
If YES, what time were they transferred to freezer? 1130

9. Did all bottles arrive unbroken/unopened? _____ YES NO

10. Are there any missing / extra samples? _____ YES NO

11. Are samples in the appropriate containers for indicated tests? _____ YES NO

12. Are sample labels present, in good condition and complete? _____ YES NO

13. Do the sample labels agree with custody papers? _____ YES NO

14. Was sufficient amount of sample sent for tests requested? _____ YES NO

15. Are the samples appropriately preserved? _____ YES NO N/A

16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A

17. Did you document your preservative check? _____ YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A

21. Was the client contacted concerning this sample delivery? _____ YES NO
If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Gasoline by GC/FID (5035 Prep)			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/26/13
Units:	mg/Kg	Received:	06/26/13
Basis:	as received		

Field ID:	EX2-A-4C	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	200161
Lab ID:	246506-001	Analyzed:	06/27/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.14

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	64-139

Field ID:	EX2-A-9C	Diln Fac:	25.00
Type:	SAMPLE	Batch#:	200274
Lab ID:	246506-002	Analyzed:	07/02/13

Analyte	Result	RL
Gasoline C7-C12	21 Y	4.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-139

Field ID:	EX2-B-4C	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	200161
Lab ID:	246506-003	Analyzed:	06/27/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/26/13
Units:	mg/Kg	Received:	06/26/13
Basis:	as received		

Field ID:	EX2-B-9C	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	200274
Lab ID:	246506-004	Analyzed:	07/02/13

Analyte	Result	RL
Gasoline C7-C12	0.39 Y	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	64-139

Field ID:	EX2-D-4C	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	200161
Lab ID:	246506-005	Analyzed:	06/27/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	85	64-139

Field ID:	EX2-D-9C	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	200161
Lab ID:	246506-006	Analyzed:	06/27/13

Analyte	Result	RL
Gasoline C7-C12	0.70 Y	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/26/13
Units:	mg/Kg	Received:	06/26/13
Basis:	as received		

Field ID:	EX2-BOT-10C	Diln Fac:	25.00
Type:	SAMPLE	Batch#:	200274
Lab ID:	246506-007	Analyzed:	07/02/13

Analyte	Result	RL
Gasoline C7-C12	33	4.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	85	64-139

Type:	BLANK	Batch#:	200161
Lab ID:	QC695553	Analyzed:	06/27/13
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-139

Type:	BLANK	Batch#:	200274
Lab ID:	QC696071	Analyzed:	07/01/13
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	200161
Units:	mg/Kg	Analyzed:	06/27/13
Diln Fac:	1.000		

Type: BS Lab ID: QC695551

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.8507	85	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-139

Type: BSD Lab ID: QC695552

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2.000	1.735	87	80-120	2	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	64-139

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	200274
Units:	mg/Kg	Analyzed:	07/01/13
Diln Fac:	1.000		

Type: BS Lab ID: QC696069

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.080	108	80-120

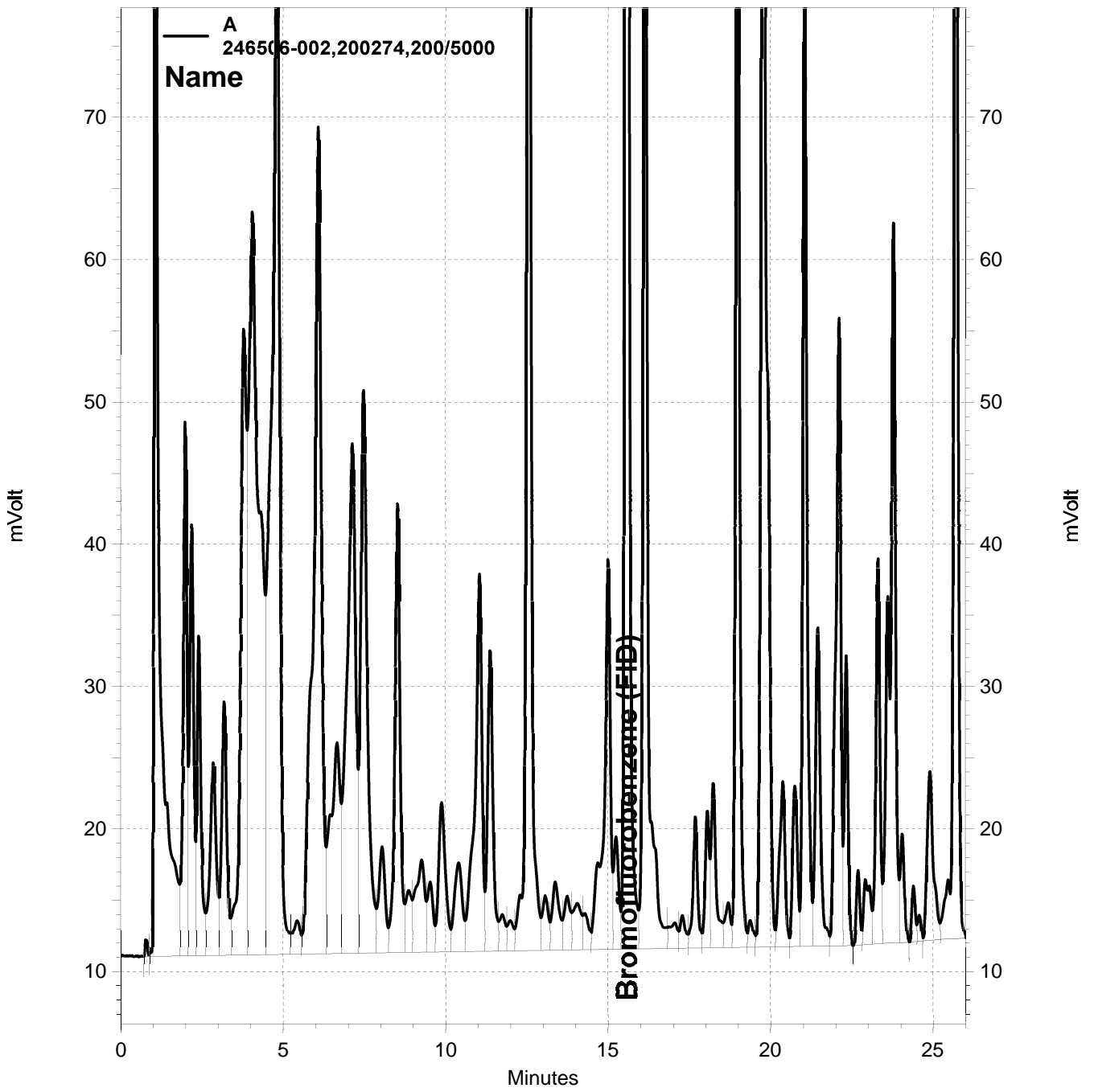
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	64-139

Type: BSD Lab ID: QC696070

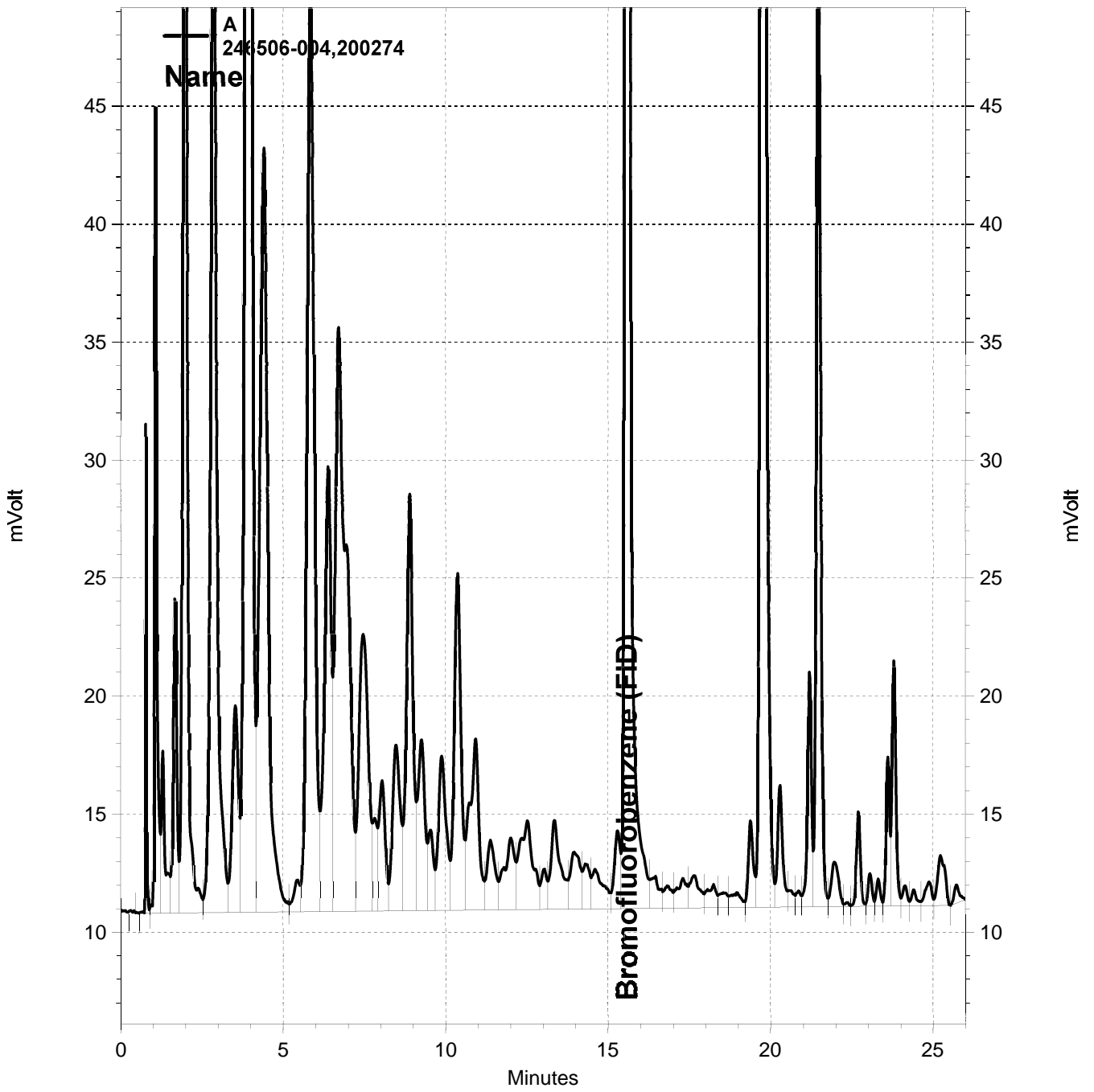
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2.000	2.105	105	80-120	3	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	64-139

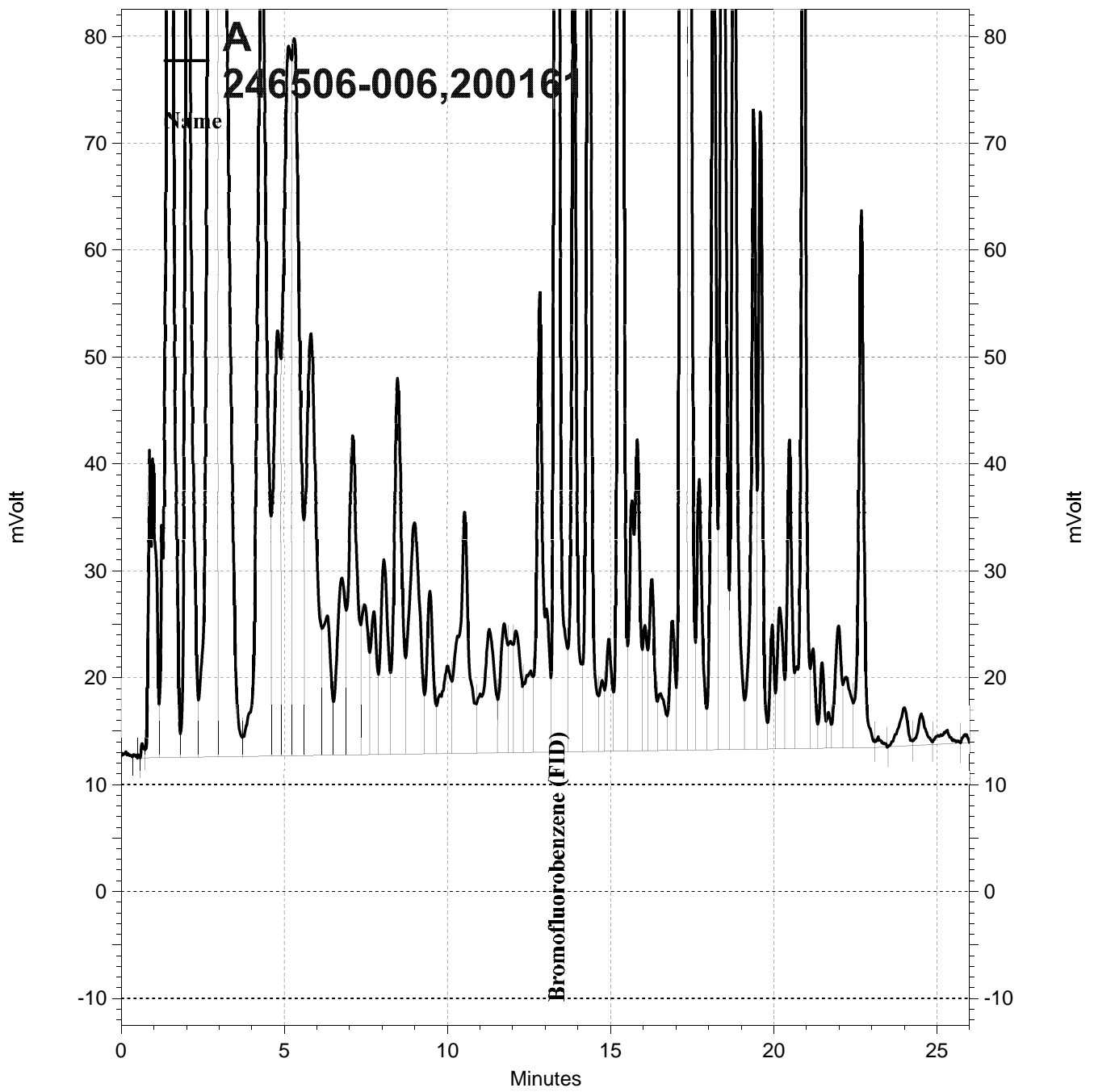
RPD= Relative Percent Difference



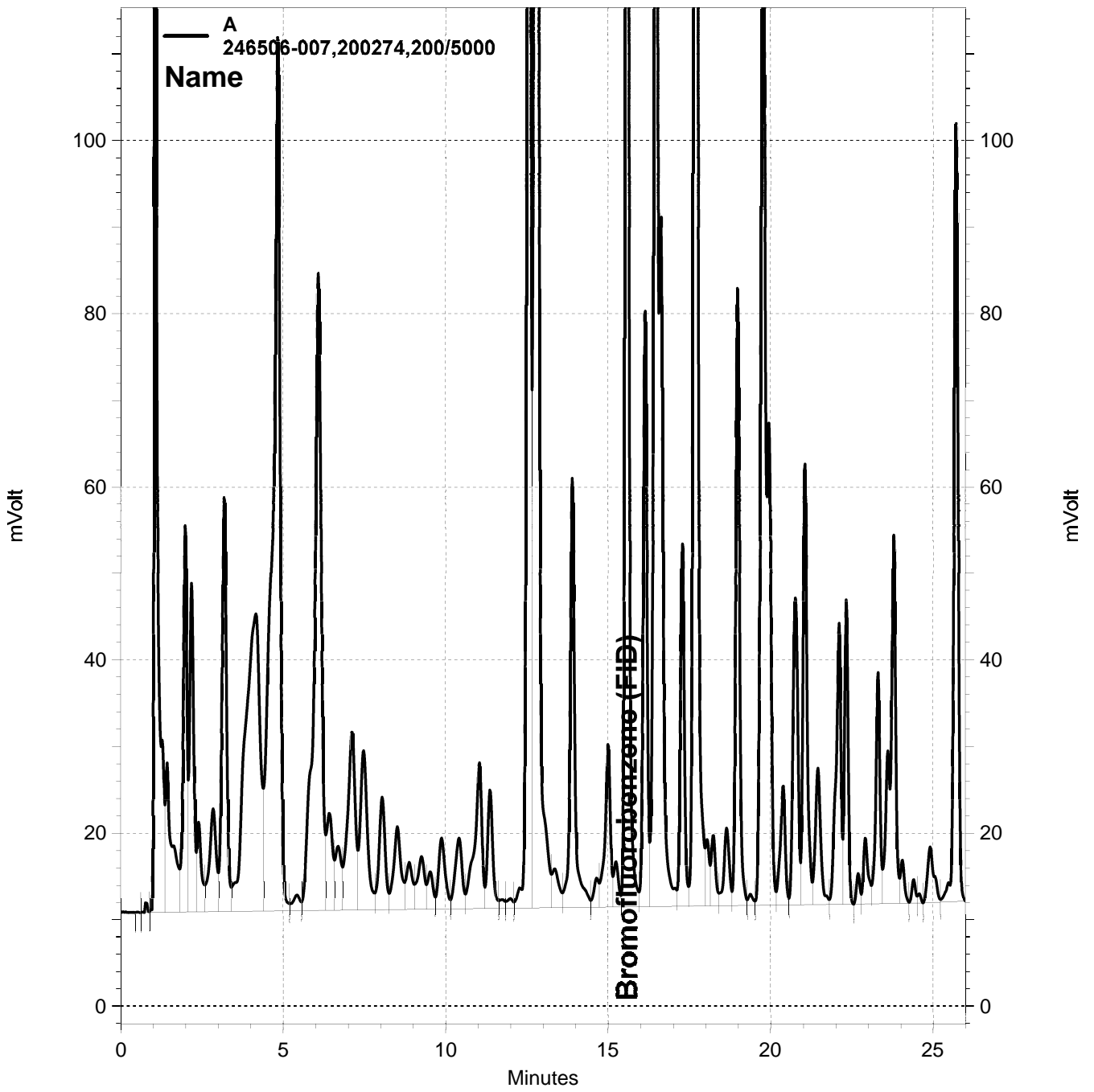
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\182-032, A



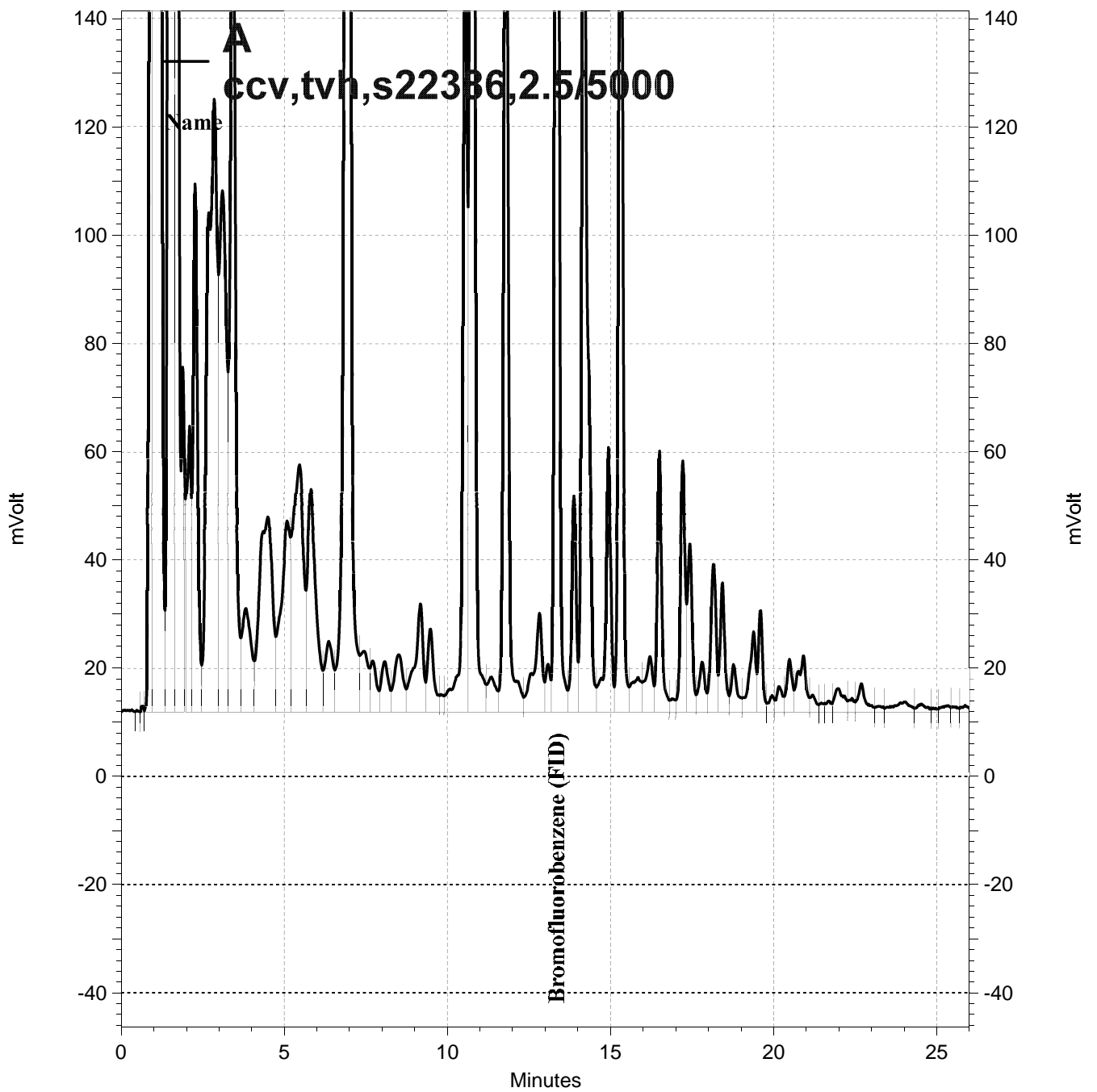
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\182-029, A



— \\Lims\gdrive\ezchrom\Projects\GC04\Data\178-016, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\182-033, A



— \\Lims\gdrive\ezchrom\Projects\GC04\Data\178-002, A

BTXE & Oxygenates			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-A-4C	Diln Fac:	0.7576
Lab ID:	246506-001	Batch#:	200231
Matrix:	Soil	Sampled:	06/26/13
Units:	ug/Kg	Received:	06/26/13
Basis:	as received	Analyzed:	06/30/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	76
MTBE	ND	3.8
Isopropyl Ether (DIPE)	ND	3.8
Ethyl tert-Butyl Ether (ETBE)	ND	3.8
1,2-Dichloroethane	ND	3.8
Benzene	ND	3.8
Methyl tert-Amyl Ether (TAME)	ND	3.8
Toluene	ND	3.8
1,2-Dibromoethane	ND	3.8
Ethylbenzene	ND	3.8
m,p-Xylenes	ND	3.8
o-Xylene	ND	3.8
Naphthalene	ND	3.8

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	113	80-120
Bromofluorobenzene	104	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-A-9C	Diln Fac:	40.26
Lab ID:	246506-002	Batch#:	200210
Matrix:	Soil	Sampled:	06/26/13
Units:	ug/Kg	Received:	06/26/13
Basis:	as received	Analyzed:	06/29/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	4,000
MTBE	ND	200
Isopropyl Ether (DIPE)	ND	200
Ethyl tert-Butyl Ether (ETBE)	ND	200
1,2-Dichloroethane	ND	200
Benzene	ND	200
Methyl tert-Amyl Ether (TAME)	ND	200
Toluene	ND	200
1,2-Dibromoethane	ND	200
Ethylbenzene	770	200
m,p-Xylenes	ND	200
o-Xylene	ND	200
Naphthalene	1,500	200

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	104	80-120
Bromofluorobenzene	108	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-B-4C	Diln Fac:	0.9960
Lab ID:	246506-003	Batch#:	200210
Matrix:	Soil	Sampled:	06/26/13
Units:	ug/Kg	Received:	06/26/13
Basis:	as received	Analyzed:	06/28/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-124
1,2-Dichloroethane-d4	114	80-137
Toluene-d8	103	80-120
Bromofluorobenzene	116	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-B-9C	Diln Fac:	0.7825
Lab ID:	246506-004	Batch#:	200210
Matrix:	Soil	Sampled:	06/26/13
Units:	ug/Kg	Received:	06/26/13
Basis:	as received	Analyzed:	06/28/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	78
MTBE	ND	3.9
Isopropyl Ether (DIPE)	ND	3.9
Ethyl tert-Butyl Ether (ETBE)	ND	3.9
1,2-Dichloroethane	ND	3.9
Benzene	ND	3.9
Methyl tert-Amyl Ether (TAME)	ND	3.9
Toluene	ND	3.9
1,2-Dibromoethane	ND	3.9
Ethylbenzene	ND	3.9
m,p-Xylenes	ND	3.9
o-Xylene	ND	3.9
Naphthalene	ND	3.9

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	105	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-D-4C	Diln Fac:	0.7587
Lab ID:	246506-005	Batch#:	200210
Matrix:	Soil	Sampled:	06/26/13
Units:	ug/Kg	Received:	06/26/13
Basis:	as received	Analyzed:	06/28/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	76
MTBE	ND	3.8
Isopropyl Ether (DIPE)	ND	3.8
Ethyl tert-Butyl Ether (ETBE)	ND	3.8
1,2-Dichloroethane	ND	3.8
Benzene	ND	3.8
Methyl tert-Amyl Ether (TAME)	ND	3.8
Toluene	ND	3.8
1,2-Dibromoethane	ND	3.8
Ethylbenzene	ND	3.8
m,p-Xylenes	ND	3.8
o-Xylene	ND	3.8
Naphthalene	ND	3.8

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-124
1,2-Dichloroethane-d4	99	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	114	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-D-9C	Diln Fac:	0.7874
Lab ID:	246506-006	Batch#:	200210
Matrix:	Soil	Sampled:	06/26/13
Units:	ug/Kg	Received:	06/26/13
Basis:	as received	Analyzed:	06/28/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	120	79
MTBE	ND	3.9
Isopropyl Ether (DIPE)	ND	3.9
Ethyl tert-Butyl Ether (ETBE)	ND	3.9
1,2-Dichloroethane	ND	3.9
Benzene	ND	3.9
Methyl tert-Amyl Ether (TAME)	ND	3.9
Toluene	ND	3.9
1,2-Dibromoethane	ND	3.9
Ethylbenzene	ND	3.9
m,p-Xylenes	ND	3.9
o-Xylene	ND	3.9
Naphthalene	37	3.9

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	109	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	101	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-BOT-10C	Diln Fac:	39.68
Lab ID:	246506-007	Batch#:	200210
Matrix:	Soil	Sampled:	06/26/13
Units:	ug/Kg	Received:	06/26/13
Basis:	as received	Analyzed:	06/29/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	4,000
MTBE	ND	200
Isopropyl Ether (DIPE)	ND	200
Ethyl tert-Butyl Ether (ETBE)	ND	200
1,2-Dichloroethane	ND	200
Benzene	620	200
Methyl tert-Amyl Ether (TAME)	ND	200
Toluene	ND	200
1,2-Dibromoethane	ND	200
Ethylbenzene	1,500	200
m,p-Xylenes	3,000	200
o-Xylene	360	200
Naphthalene	1,700	200

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	119	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	200210
Units:	ug/Kg	Analyzed:	06/28/13
Diln Fac:	1.000		

Type: BS Lab ID: QC695774

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	96.64	97	53-141
MTBE	20.00	19.51	98	65-121
Isopropyl Ether (DIPE)	20.00	19.21	96	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	19.53	98	62-121
1,2-Dichloroethane	20.00	20.15	101	74-133
Benzene	20.00	19.82	99	77-126
Methyl tert-Amyl Ether (TAME)	20.00	19.35	97	66-120
Toluene	20.00	19.77	99	76-124
1,2-Dibromoethane	20.00	20.78	104	78-120
Ethylbenzene	20.00	19.87	99	76-127
m,p-Xylenes	40.00	39.56	99	74-126
o-Xylene	20.00	17.44	87	70-120

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	102	79-127

Type: BSD Lab ID: QC695775

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	92.85	93	53-141	4	34
MTBE	20.00	19.39	97	65-121	1	22
Isopropyl Ether (DIPE)	20.00	19.25	96	57-122	0	26
Ethyl tert-Butyl Ether (ETBE)	20.00	19.37	97	62-121	1	28
1,2-Dichloroethane	20.00	20.69	103	74-133	3	23
Benzene	20.00	18.99	95	77-126	4	20
Methyl tert-Amyl Ether (TAME)	20.00	20.05	100	66-120	4	24
Toluene	20.00	19.54	98	76-124	1	26
1,2-Dibromoethane	20.00	20.50	102	78-120	1	20
Ethylbenzene	20.00	19.01	95	76-127	4	24
m,p-Xylenes	40.00	38.49	96	74-126	3	24
o-Xylene	20.00	18.41	92	70-120	5	22

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	102	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC695776	Batch#:	200210
Matrix:	Soil	Analyzed:	06/28/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-124
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	104	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC695895	Batch#:	200231
Matrix:	Soil	Analyzed:	06/30/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-124
1,2-Dichloroethane-d4	99	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	104	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	246506	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC695896	Batch#:	200231
Matrix:	Soil	Analyzed:	06/30/13
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	105.3	105	53-141
MTBE	20.00	17.99	90	65-121
Isopropyl Ether (DIPE)	20.00	21.76	109	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	20.16	101	62-121
1,2-Dichloroethane	20.00	19.89	99	74-133
Benzene	20.00	23.12	116	77-126
Methyl tert-Amyl Ether (TAME)	20.00	19.56	98	66-120
Toluene	20.00	21.78	109	76-124
1,2-Dibromoethane	20.00	20.20	101	78-120
Ethylbenzene	20.00	21.50	107	76-127
m,p-Xylenes	40.00	43.58	109	74-126
o-Xylene	20.00	20.31	102	70-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	110	80-120
Bromofluorobenzene	97	79-127



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 246399
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : Buttner
Level : II

Table with 2 columns: Sample ID and Lab ID. Rows include EX2-A-13A through EX2-BOT-17SW.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: [Handwritten Signature]
Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/28/2013

CASE NARRATIVE

Laboratory number: 246399
Client: Applied Water Resources
Project: AWR 13-05
Location: Buttner
Request Date: 06/21/13
Samples Received: 06/21/13

This data package contains sample and QC results for eight soil samples, requested for the above referenced project on 06/21/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

High surrogate recovery was observed for bromofluorobenzene in EX2-C-13B (lab # 246399-005). No other analytical problems were encountered.

CHAIN OF CUSTODY

CT Curtis & Tompkins Laboratories
 ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
 In Business Since 1878

2323 Fifth Street
 Berkeley, CA 94710

Phone (510) 486-0900
 Fax (510) 486-0532

Page 1 of 1

Chain of Custody # _____

C&T LOGIN # 246399

Project No: AWR1305 Sampler: Linderman
 Project Name: Buttner Report To: AWR Corp
 Project P. O. No.: _____ Company: Tyson Fulmer
 EDD Format: Report Level II III IV Telephone: (925) 938-1600
 Turnaround Time: RUSH Standard Email: tfulmer@awrcorp.net

ANALYTICAL REQUEST											
TPHg BTEX Fuel oxys naphthalene											
1	EX2-A-13A	6/21/13	1135	X	6	HCl	H2SO4	HNO3	NaOH	None	
2	EX2-B-13A		1130	X							
3	EX2-A-13B		1340	X							
4	EX2-B-13B		1355	X							
5	EX2-C-13B		1415	X							
6	EX2-D-13B		1324	X							
7	EX2-BOT-17NF		1430	X	6						
8	EX2-BOT-17SW		1440	X	6						
											X
											X
											X
											X
											X
											X
											X
											X
											X
											X
											X
											X
											X
											X
											X
											X
											X
											X

Hold Jar

Notes:

SAMPLE RECEIPT

Intact
 Cold
 On Ice
 Ambient

RELINQUISHED BY:
 [Signature]
 DATE: 6/21/13 TIME: 1540

DATE: _____ TIME: _____

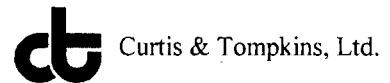
DATE: _____ TIME: _____

RECEIVED BY:
 [Signature]
 DATE: 6/21/13 TIME: 1540

DATE: _____ TIME: _____

DATE: _____ TIME: _____

COOLER RECEIPT CHECKLIST



Login # 246349 Date Received 6/21/13 Number of coolers 1
Client AWP Project AWP 1305

Date Opened 6/21/13 By (print) MG (sign) [signature]
Date Logged in [initials] By (print) [initials] (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C
Type of ice used: Wet Blue/Gel None Temp(°C)

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer? 1600

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Gasoline by GC/FID (5035 Prep)			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/21/13
Units:	mg/Kg	Received:	06/21/13
Basis:	as received		

Field ID: EX2-A-13A Diln Fac: 500.0
 Type: SAMPLE Batch#: 200063
 Lab ID: 246399-001 Analyzed: 06/25/13

Analyte	Result	RL
Gasoline C7-C12	440 Y	77

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	64-139

Field ID: EX2-B-13A Diln Fac: 500.0
 Type: SAMPLE Batch#: 200063
 Lab ID: 246399-002 Analyzed: 06/25/13

Analyte	Result	RL
Gasoline C7-C12	930 Y	72

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	64-139

Field ID: EX2-A-13B Diln Fac: 333.3
 Type: SAMPLE Batch#: 200063
 Lab ID: 246399-003 Analyzed: 06/25/13

Analyte	Result	RL
Gasoline C7-C12	240 Y	57

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	64-139

Field ID: EX2-B-13B Diln Fac: 1.000
 Type: SAMPLE Batch#: 200063
 Lab ID: 246399-004 Analyzed: 06/25/13

Analyte	Result	RL
Gasoline C7-C12	3.5 Y	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/21/13
Units:	mg/Kg	Received:	06/21/13
Basis:	as received		

Field ID: EX2-C-13B Diln Fac: 25.00
 Type: SAMPLE Batch#: 200063
 Lab ID: 246399-005 Analyzed: 06/25/13

Analyte	Result	RL
Gasoline C7-C12	35 Y	3.5

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	64-139

Field ID: EX2-D-13B Diln Fac: 1.000
 Type: SAMPLE Batch#: 200063
 Lab ID: 246399-006 Analyzed: 06/25/13

Analyte	Result	RL
Gasoline C7-C12	3.1 Y	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	64-139

Field ID: EX2-BOT-17NE Diln Fac: 1.000
 Type: SAMPLE Batch#: 200034
 Lab ID: 246399-007 Analyzed: 06/25/13

Analyte	Result	RL
Gasoline C7-C12	0.55 Y	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	64-139

Field ID: EX2-BOT-17SW Diln Fac: 1.000
 Type: SAMPLE Batch#: 200034
 Lab ID: 246399-008 Analyzed: 06/25/13

Analyte	Result	RL
Gasoline C7-C12	1.4 Y	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/21/13
Units:	mg/Kg	Received:	06/21/13
Basis:	as received		

Type:	BLANK	Batch#:	200034
Lab ID:	QC695049	Analyzed:	06/24/13
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	64-139

Type:	BLANK	Batch#:	200063
Lab ID:	QC695147	Analyzed:	06/25/13
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	93	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC695048	Batch#:	200034
Matrix:	Soil	Analyzed:	06/24/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.083	108	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	64-139

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	246413-001	Batch#:	200034
Matrix:	Soil	Sampled:	06/21/13
Units:	mg/Kg	Received:	06/21/13
Basis:	as received	Analyzed:	06/25/13

Type: MS Lab ID: QC695050

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.05617	10.64	7.987	75	42-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	64-139

Type: MSD Lab ID: QC695051

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.709	7.631	79	42-120	5	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	64-139

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	200063
Units:	mg/Kg	Analyzed:	06/25/13
Diln Fac:	1.000		

Type: BS Lab ID: QC695346

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9308	93	80-120

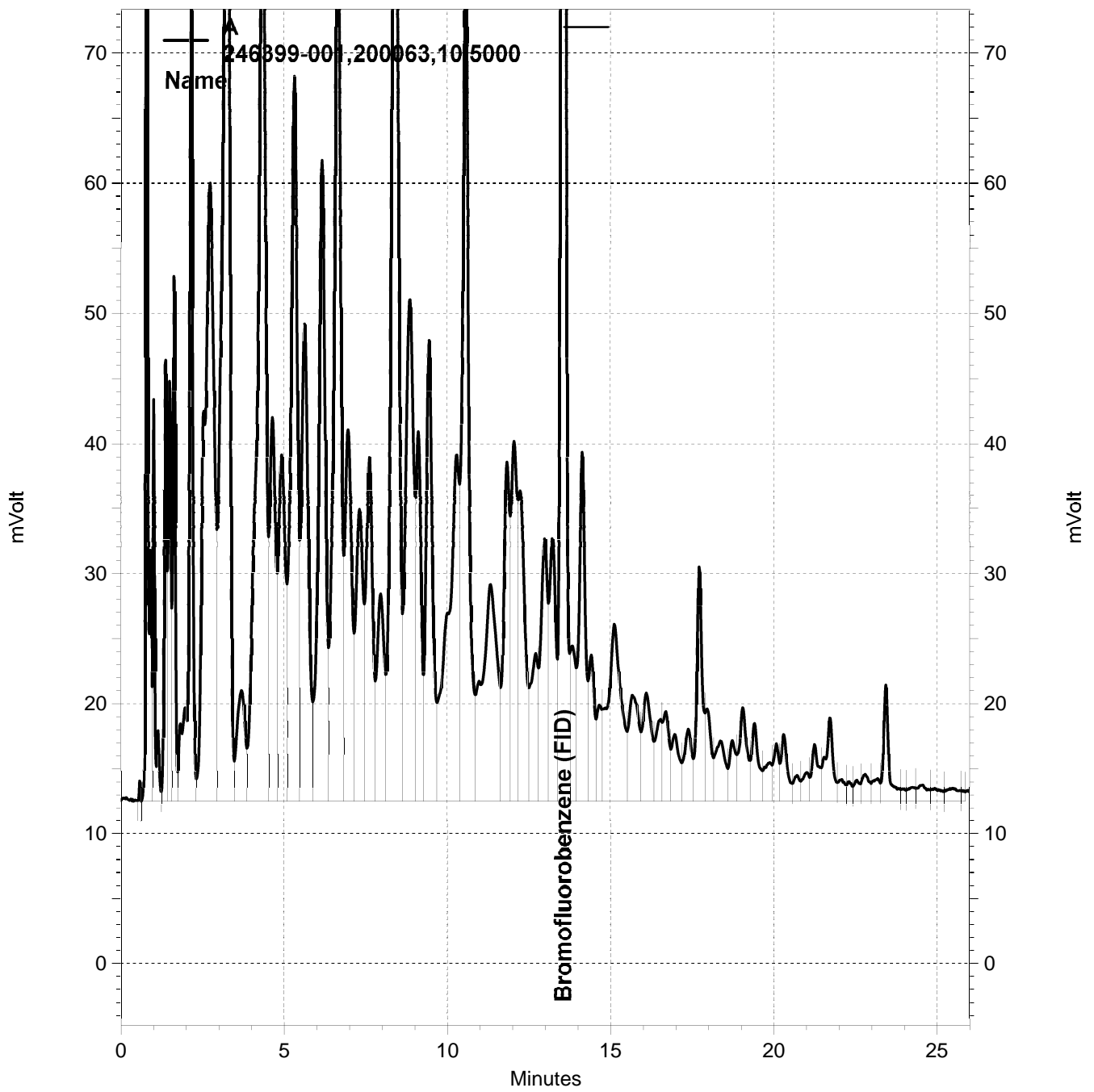
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-139

Type: BSD Lab ID: QC695347

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2.000	1.779	89	80-120	5	20

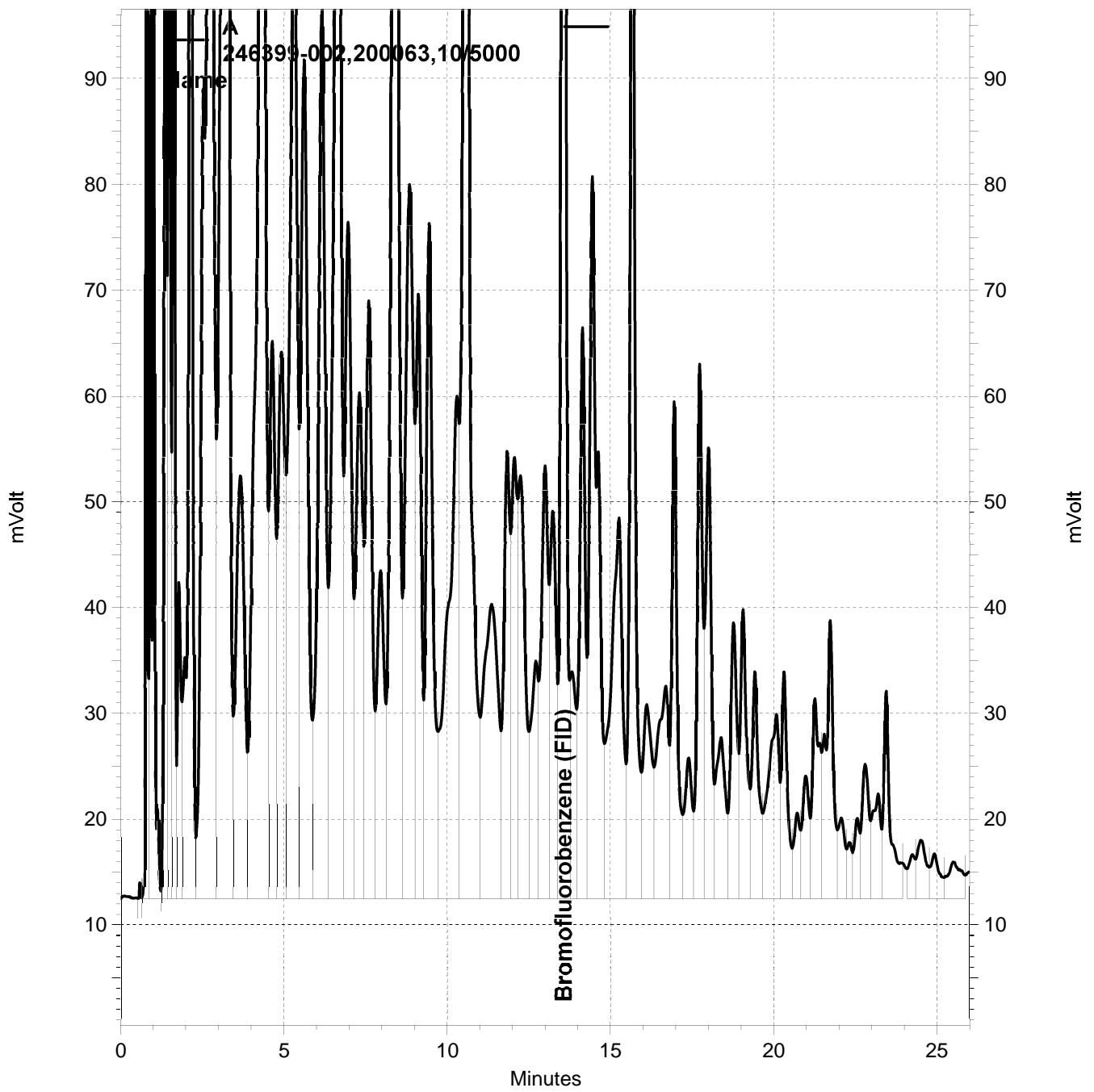
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-139

RPD= Relative Percent Difference



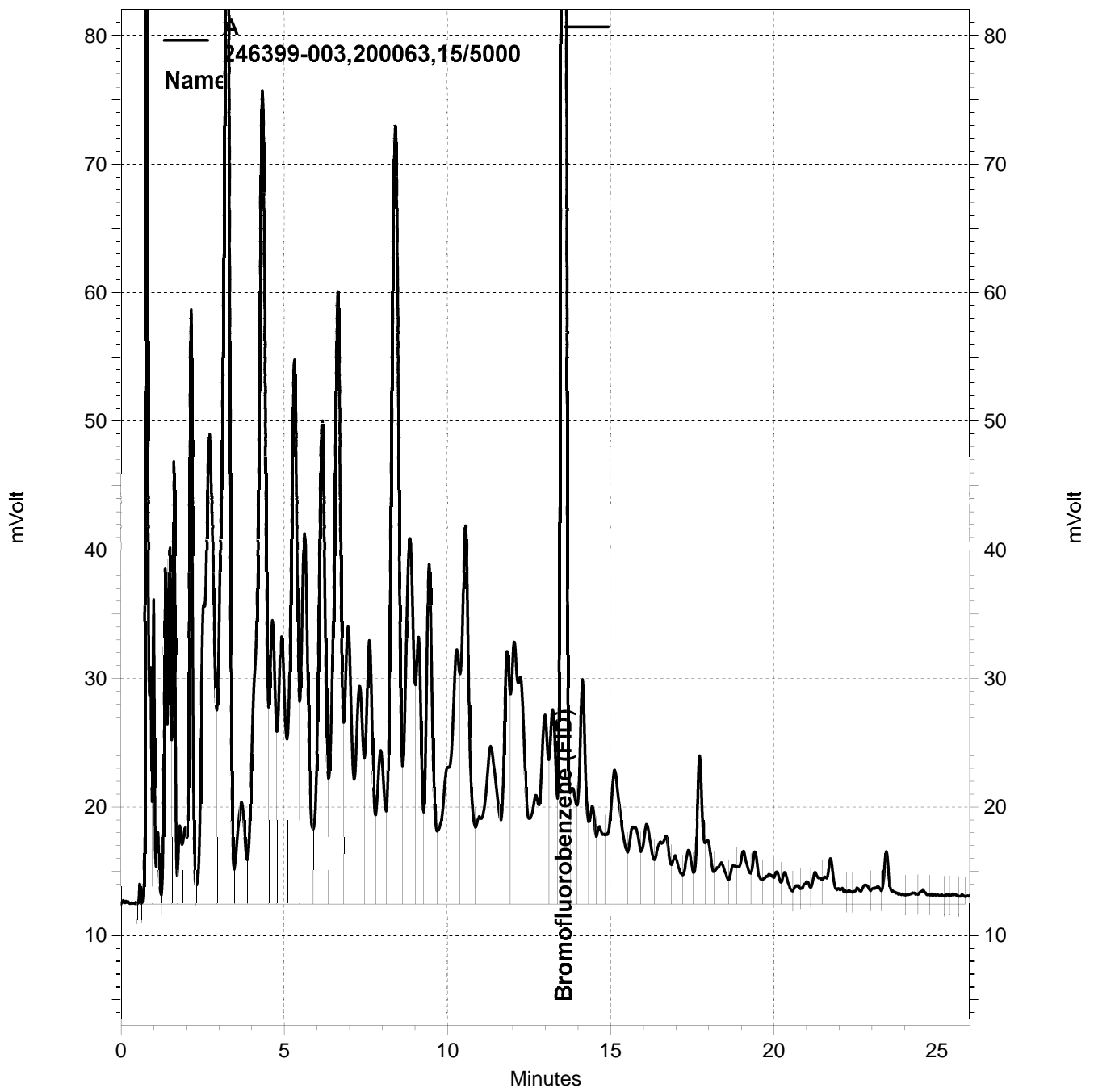
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\176-015, A

— \\Lims\gdrive\ezchrom\Projects\GC05\Archive\Data\060-011,



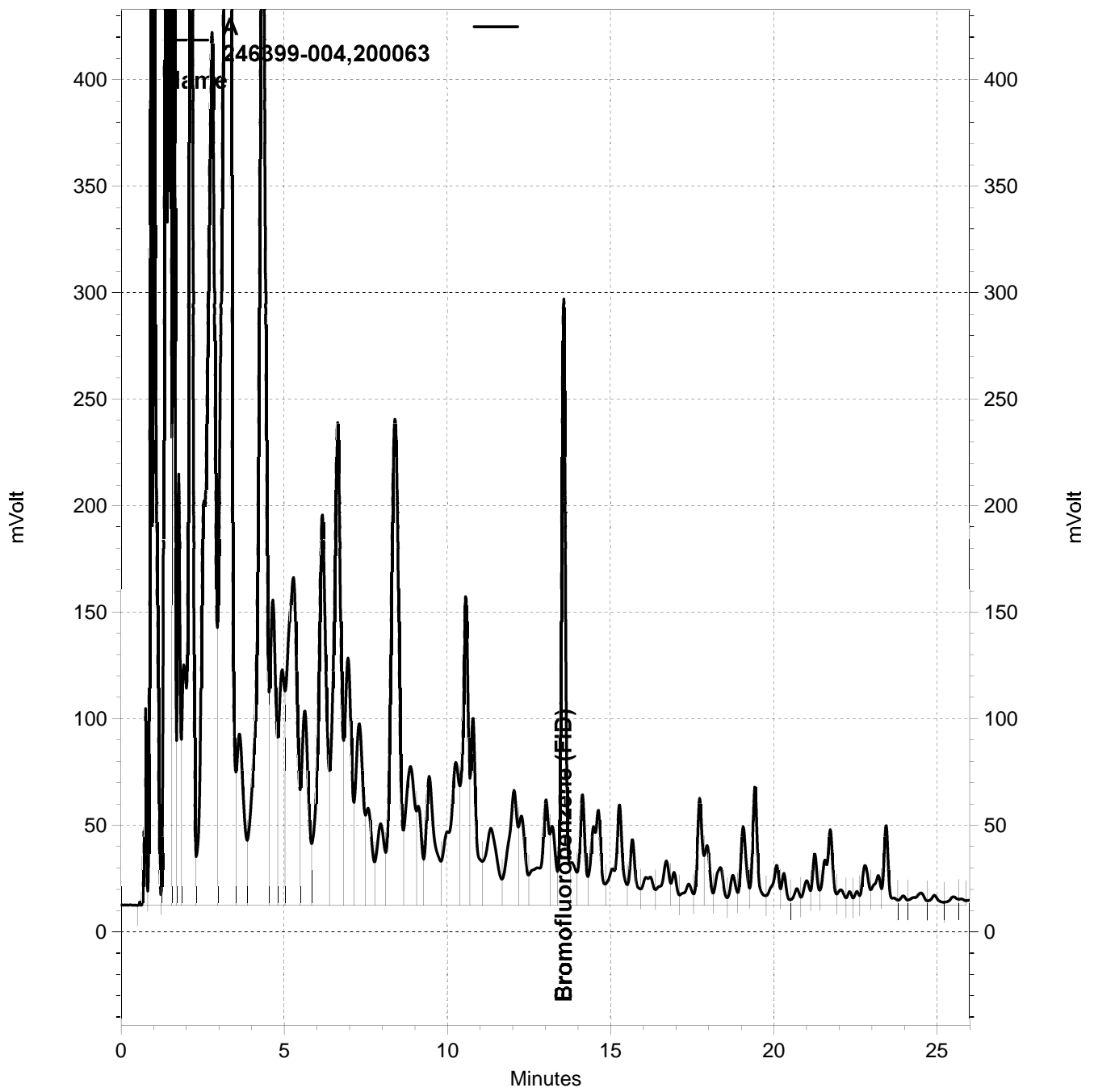
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\176-016, A

— \\Lims\gdrive\ezchrom\Projects\GC05\Archive\Data\060-011,



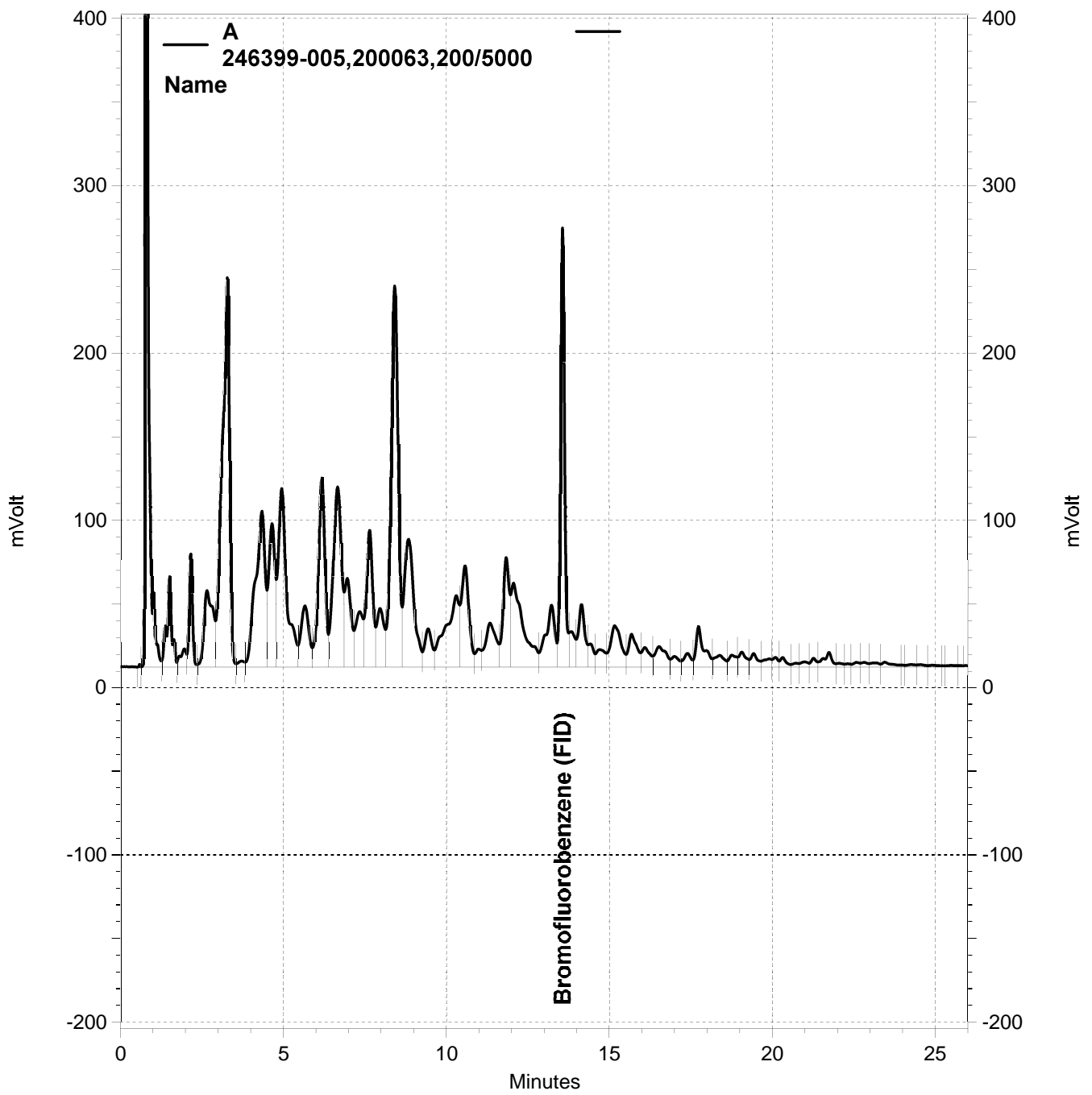
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\176-017, A

— \\Lims\gdrive\ezchrom\Projects\GC05\Archive\Data\060-011,



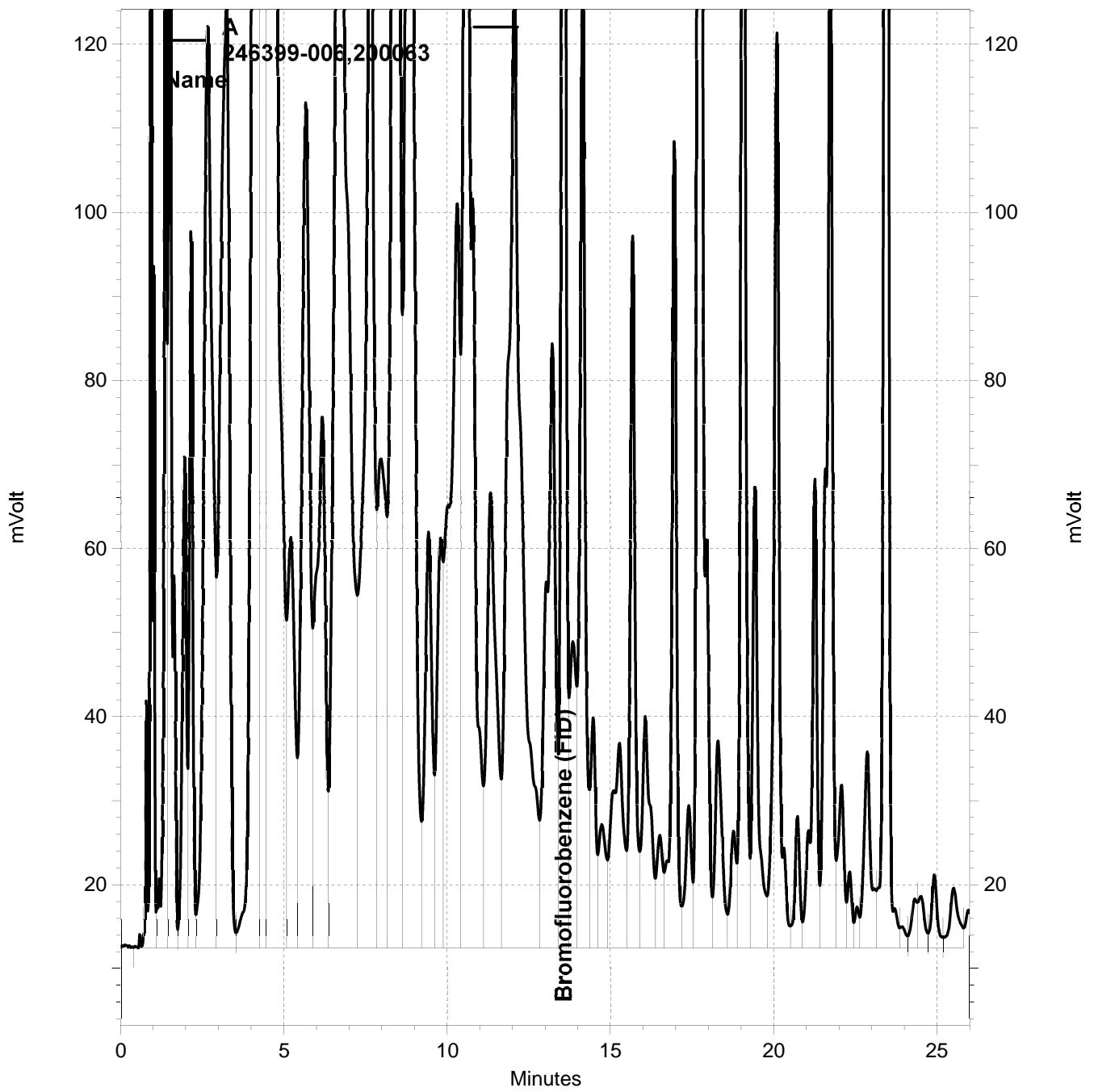
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\176-013, A

— \\Lims\gdrive\ezchrom\Projects\GC05\Archive\Data\060-011,



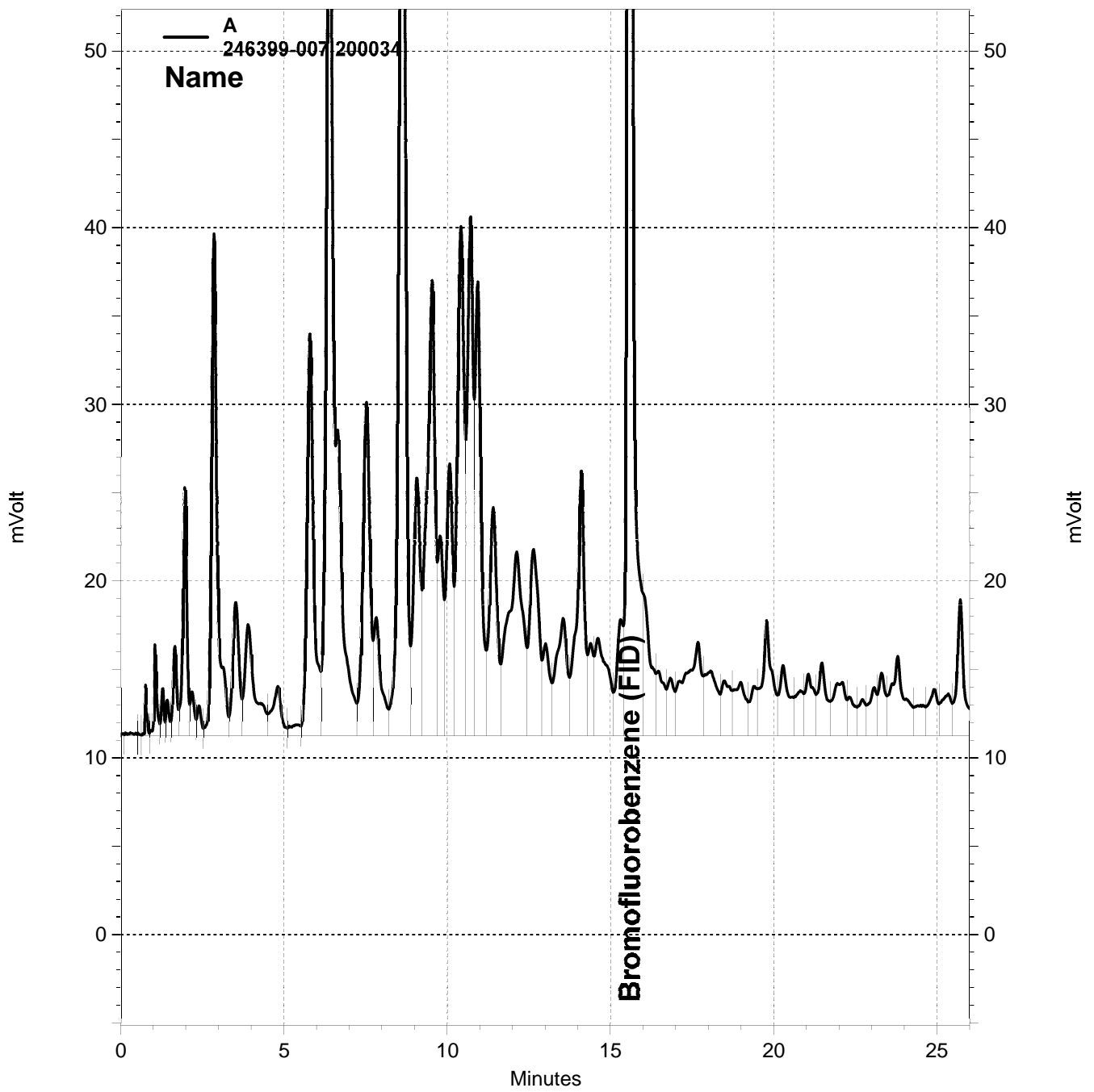
— \\Lims\gdrive\ezchrom\Projects\GC05\Data\176-018, A

— \\Lims\gdrive\ezchrom\Projects\GC05\Archive\Data\060-011,

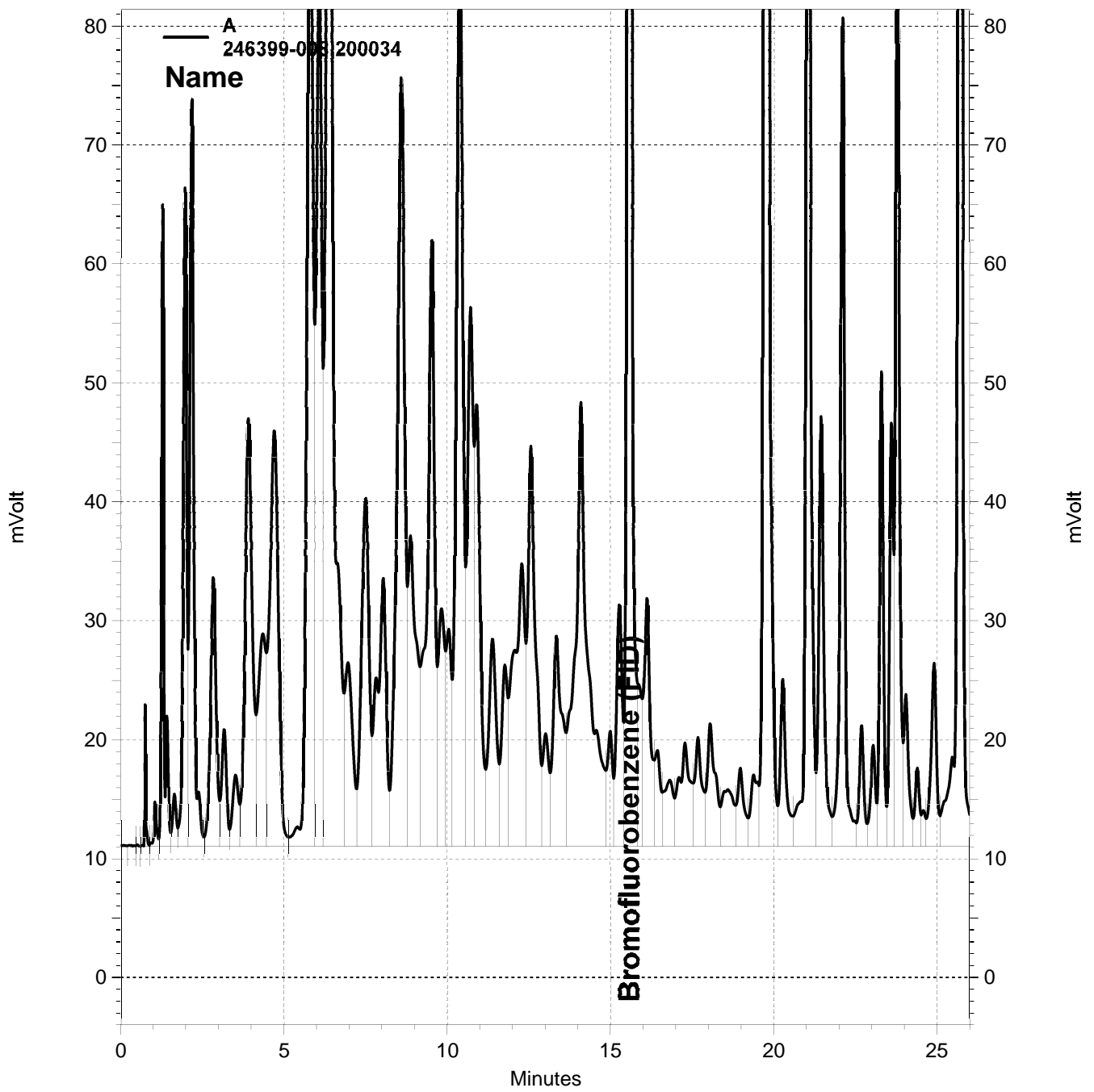


— \\Lims\gdrive\ezchrom\Projects\GC05\Data\176-014, A

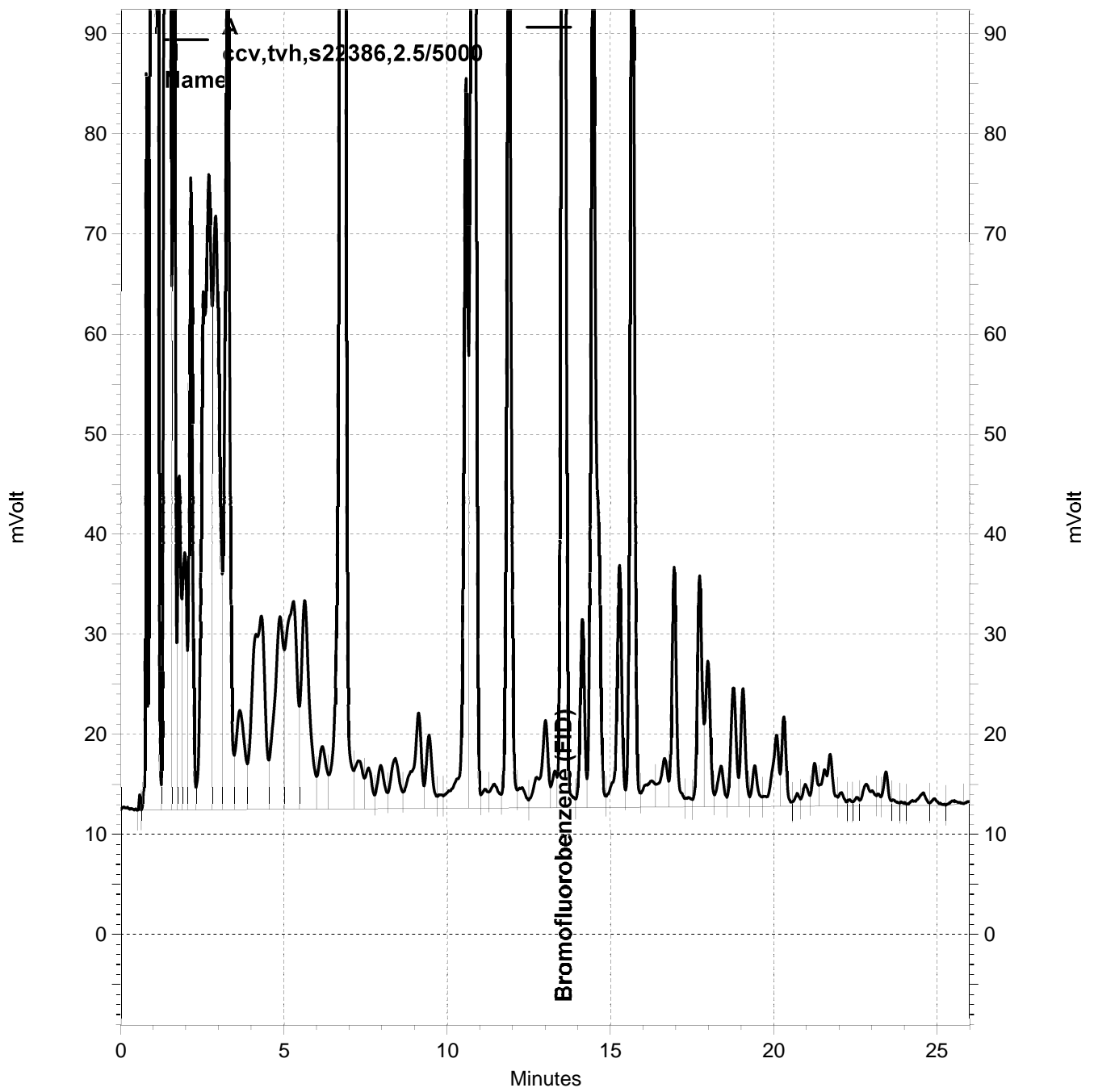
— \\Lims\gdrive\ezchrom\Projects\GC05\Archive\Data\060-011,



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\175-030, A



— \\Lims\gdrive\ezchrom\Projects\GC07\Data\175-031, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\176-002, A

— \\Lims\gdrive\ezchrom\Projects\GC05\Archive\Data\060-011,

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-A-13A	Diln Fac:	38.35
Lab ID:	246399-001	Batch#:	200145
Matrix:	Soil	Sampled:	06/21/13
Units:	ug/Kg	Received:	06/21/13
Basis:	as received	Analyzed:	06/27/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	3,800
MTBE	ND	190
Isopropyl Ether (DIPE)	ND	190
Ethyl tert-Butyl Ether (ETBE)	ND	190
1,2-Dichloroethane	ND	190
Benzene	2,200	190
Methyl tert-Amyl Ether (TAME)	ND	190
Toluene	ND	190
1,2-Dibromoethane	ND	190
Ethylbenzene	3,900	190
m,p-Xylenes	200	190
o-Xylene	ND	190
Naphthalene	1,200	190

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-124
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	114	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-B-13A	Diln Fac:	89.80
Lab ID:	246399-002	Batch#:	200145
Matrix:	Soil	Sampled:	06/21/13
Units:	ug/Kg	Received:	06/21/13
Basis:	as received	Analyzed:	06/27/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	9,000
MTBE	ND	450
Isopropyl Ether (DIPE)	ND	450
Ethyl tert-Butyl Ether (ETBE)	ND	450
1,2-Dichloroethane	ND	450
Benzene	2,400	450
Methyl tert-Amyl Ether (TAME)	ND	450
Toluene	ND	450
1,2-Dibromoethane	ND	450
Ethylbenzene	11,000	450
m,p-Xylenes	1,400	450
o-Xylene	ND	450
Naphthalene	3,100	450

Surrogate	%REC	Limits
Dibromofluoromethane	87	80-124
1,2-Dichloroethane-d4	90	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	109	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-A-13B	Diln Fac:	42.88
Lab ID:	246399-003	Batch#:	200145
Matrix:	Soil	Sampled:	06/21/13
Units:	ug/Kg	Received:	06/21/13
Basis:	as received	Analyzed:	06/27/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	4,300
MTBE	ND	210
Isopropyl Ether (DIPE)	ND	210
Ethyl tert-Butyl Ether (ETBE)	ND	210
1,2-Dichloroethane	ND	210
Benzene	2,200	210
Methyl tert-Amyl Ether (TAME)	ND	210
Toluene	ND	210
1,2-Dibromoethane	ND	210
Ethylbenzene	970	210
m,p-Xylenes	ND	210
o-Xylene	ND	210
Naphthalene	490	210

Surrogate	%REC	Limits
Dibromofluoromethane	83	80-124
1,2-Dichloroethane-d4	86	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	107	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-B-13B	Basis:	as received
Lab ID:	246399-004	Sampled:	06/21/13
Matrix:	Soil	Received:	06/21/13
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
tert-Butyl Alcohol (TBA)	ND	78	0.7776	200058	06/25/13
MTBE	ND	3.9	0.7776	200058	06/25/13
Isopropyl Ether (DIPE)	ND	3.9	0.7776	200058	06/25/13
Ethyl tert-Butyl Ether (ETBE)	ND	3.9	0.7776	200058	06/25/13
1,2-Dichloroethane	ND	3.9	0.7776	200058	06/25/13
Benzene	520	190	38.05	200145	06/27/13
Methyl tert-Amyl Ether (TAME)	ND	3.9	0.7776	200058	06/25/13
Toluene	ND	3.9	0.7776	200058	06/25/13
1,2-Dibromoethane	ND	3.9	0.7776	200058	06/25/13
Ethylbenzene	13	3.9	0.7776	200058	06/25/13
m,p-Xylenes	8.3	3.9	0.7776	200058	06/25/13
o-Xylene	ND	3.9	0.7776	200058	06/25/13
Naphthalene	13	3.9	0.7776	200058	06/25/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	96	80-124	0.7776	200058	06/25/13
1,2-Dichloroethane-d4	99	80-137	0.7776	200058	06/25/13
Toluene-d8	103	80-120	0.7776	200058	06/25/13
Bromofluorobenzene	106	79-127	0.7776	200058	06/25/13

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-C-13B	Basis:	as received
Lab ID:	246399-005	Sampled:	06/21/13
Matrix:	Soil	Received:	06/21/13
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
tert-Butyl Alcohol (TBA)	ND	79	0.7874	200058	06/25/13
MTBE	ND	3.9	0.7874	200058	06/25/13
Isopropyl Ether (DIPE)	ND	3.9	0.7874	200058	06/25/13
Ethyl tert-Butyl Ether (ETBE)	ND	3.9	0.7874	200058	06/25/13
1,2-Dichloroethane	ND	3.9	0.7874	200058	06/25/13
Benzene	630	180	35.31	200145	06/27/13
Methyl tert-Amyl Ether (TAME)	ND	3.9	0.7874	200058	06/25/13
Toluene	ND	3.9	0.7874	200058	06/25/13
1,2-Dibromoethane	ND	3.9	0.7874	200058	06/25/13
Ethylbenzene	120	3.9	0.7874	200058	06/25/13
m,p-Xylenes	16	3.9	0.7874	200058	06/25/13
o-Xylene	ND	3.9	0.7874	200058	06/25/13
Naphthalene	25	3.9	0.7874	200058	06/25/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	87	80-124	0.7874	200058	06/25/13
1,2-Dichloroethane-d4	113	80-137	0.7874	200058	06/25/13
Toluene-d8	101	80-120	0.7874	200058	06/25/13
Bromofluorobenzene	150 *	79-127	0.7874	200058	06/25/13

*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-D-13B	Basis:	as received
Lab ID:	246399-006	Sampled:	06/21/13
Matrix:	Soil	Received:	06/21/13
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
tert-Butyl Alcohol (TBA)	ND	74	0.7375	200058	06/25/13
MTBE	ND	3.7	0.7375	200058	06/25/13
Isopropyl Ether (DIPE)	ND	3.7	0.7375	200058	06/25/13
Ethyl tert-Butyl Ether (ETBE)	ND	3.7	0.7375	200058	06/25/13
1,2-Dichloroethane	ND	3.7	0.7375	200058	06/25/13
Benzene	16	3.7	0.7375	200058	06/25/13
Methyl tert-Amyl Ether (TAME)	ND	3.7	0.7375	200058	06/25/13
Toluene	ND	3.7	0.7375	200058	06/25/13
1,2-Dibromoethane	ND	3.7	0.7375	200058	06/25/13
Ethylbenzene	93	3.7	0.7375	200058	06/25/13
m,p-Xylenes	76	3.7	0.7375	200058	06/25/13
o-Xylene	ND	3.7	0.7375	200058	06/25/13
Naphthalene	240	190	38.94	200145	06/27/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	88	80-124	0.7375	200058	06/25/13
1,2-Dichloroethane-d4	84	80-137	0.7375	200058	06/25/13
Toluene-d8	115	80-120	0.7375	200058	06/25/13
Bromofluorobenzene	107	79-127	0.7375	200058	06/25/13

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-BOT-17NE	Diln Fac:	0.7862
Lab ID:	246399-007	Batch#:	200058
Matrix:	Soil	Sampled:	06/21/13
Units:	ug/Kg	Received:	06/21/13
Basis:	as received	Analyzed:	06/25/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	79
MTBE	ND	3.9
Isopropyl Ether (DIPE)	ND	3.9
Ethyl tert-Butyl Ether (ETBE)	ND	3.9
1,2-Dichloroethane	ND	3.9
Benzene	ND	3.9
Methyl tert-Amyl Ether (TAME)	ND	3.9
Toluene	ND	3.9
1,2-Dibromoethane	ND	3.9
Ethylbenzene	ND	3.9
m,p-Xylenes	ND	3.9
o-Xylene	ND	3.9
Naphthalene	ND	3.9

Surrogate	%REC	Limits
Dibromofluoromethane	84	80-124
1,2-Dichloroethane-d4	84	80-137
Toluene-d8	108	80-120
Bromofluorobenzene	104	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-BOT-17SW	Diln Fac:	0.8518
Lab ID:	246399-008	Batch#:	200058
Matrix:	Soil	Sampled:	06/21/13
Units:	ug/Kg	Received:	06/21/13
Basis:	as received	Analyzed:	06/25/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	85
MTBE	ND	4.3
Isopropyl Ether (DIPE)	ND	4.3
Ethyl tert-Butyl Ether (ETBE)	ND	4.3
1,2-Dichloroethane	ND	4.3
Benzene	ND	4.3
Methyl tert-Amyl Ether (TAME)	ND	4.3
Toluene	ND	4.3
1,2-Dibromoethane	ND	4.3
Ethylbenzene	ND	4.3
m,p-Xylenes	ND	4.3
o-Xylene	ND	4.3
Naphthalene	120	4.3

Surrogate	%REC	Limits
Dibromofluoromethane	87	80-124
1,2-Dichloroethane-d4	86	80-137
Toluene-d8	108	80-120
Bromofluorobenzene	102	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC695127	Batch#:	200058
Matrix:	Soil	Analyzed:	06/25/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-124
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	118	80-120
Bromofluorobenzene	106	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC695128	Batch#:	200058
Matrix:	Soil	Analyzed:	06/25/13
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	96.78	97	53-141
MTBE	20.00	16.89	84	65-121
Isopropyl Ether (DIPE)	20.00	19.81	99	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	18.16	91	62-121
1,2-Dichloroethane	20.00	18.44	92	74-133
Benzene	20.00	19.90	99	77-126
Methyl tert-Amyl Ether (TAME)	20.00	17.53	88	66-120
Toluene	20.00	19.13	96	76-124
1,2-Dibromoethane	20.00	18.91	95	78-120
Ethylbenzene	20.00	19.33	97	76-127
m,p-Xylenes	40.00	39.60	99	74-126
o-Xylene	20.00	18.03	90	70-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	99	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	98	79-127

Batch QC Report

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	200058
MSS Lab ID:	246396-029	Sampled:	06/20/13
Matrix:	Soil	Received:	06/21/13
Units:	ug/Kg	Analyzed:	06/25/13
Basis:	as received		

Type: MS Diln Fac: 0.9506
 Lab ID: QC695129

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<12.50	237.6	176.0	74	42-135
MTBE	<0.9437	47.53	31.27	66	51-120
Isopropyl Ether (DIPE)	<0.8210	47.53	37.23	78	45-120
Ethyl tert-Butyl Ether (ETBE)	<0.6913	47.53	36.05	76	49-120
1,2-Dichloroethane	<0.8738	47.53	33.54	71	53-122
Benzene	<0.8512	47.53	42.23	89	54-121
Methyl tert-Amyl Ether (TAME)	<0.5369	47.53	35.33	74	50-120
Toluene	<0.6711	47.53	40.92	86	47-120
1,2-Dibromoethane	<0.6133	47.53	38.48	81	50-120
Ethylbenzene	<0.6404	47.53	39.14	82	42-122
m,p-Xylenes	<1.180	95.06	81.55	86	39-120
o-Xylene	<0.5906	47.53	38.31	81	39-120

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-124
1,2-Dichloroethane-d4	82	80-137
Toluene-d8	104	80-120
Bromofluorobenzene	95	79-127

Type: MSD Diln Fac: 0.9488
 Lab ID: QC695130

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	237.2	169.3	71	42-135	4	53
MTBE	47.44	29.84	63	51-120	5	43
Isopropyl Ether (DIPE)	47.44	35.40	75	45-120	5	45
Ethyl tert-Butyl Ether (ETBE)	47.44	33.85	71	49-120	6	46
1,2-Dichloroethane	47.44	30.79	65	53-122	8	41
Benzene	47.44	39.20	83	54-121	7	43
Methyl tert-Amyl Ether (TAME)	47.44	33.03	70	50-120	7	43
Toluene	47.44	38.40	81	47-120	6	53
1,2-Dibromoethane	47.44	35.49	75	50-120	8	44
Ethylbenzene	47.44	36.17	76	42-122	8	52
m,p-Xylenes	94.88	75.92	80	39-120	7	54
o-Xylene	47.44	34.74	73	39-120	10	54

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	83	80-137
Toluene-d8	107	80-120
Bromofluorobenzene	96	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC695493	Batch#:	200145
Matrix:	Soil	Analyzed:	06/27/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	89	80-137
Toluene-d8	110	80-120
Bromofluorobenzene	105	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC695494	Batch#:	200145
Matrix:	Soil	Analyzed:	06/27/13
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	93.38	93	53-141
MTBE	20.00	17.85	89	65-121
Isopropyl Ether (DIPE)	20.00	21.93	110	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	20.51	103	62-121
1,2-Dichloroethane	20.00	18.30	91	74-133
Benzene	20.00	22.22	111	77-126
Methyl tert-Amyl Ether (TAME)	20.00	19.47	97	66-120
Toluene	20.00	21.20	106	76-124
1,2-Dibromoethane	20.00	19.79	99	78-120
Ethylbenzene	20.00	20.95	105	76-127
m,p-Xylenes	40.00	43.64	109	74-126
o-Xylene	20.00	20.01	100	70-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	90	80-137
Toluene-d8	106	80-120
Bromofluorobenzene	100	79-127

Batch QC Report

BTXE & Oxygenates			
Lab #:	246399	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	200145
MSS Lab ID:	246495-003	Sampled:	06/25/13
Matrix:	Soil	Received:	06/25/13
Units:	ug/Kg	Analyzed:	06/27/13
Basis:	as received		

Type: MS Diln Fac: 0.9653
 Lab ID: QC695495

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<12.99	241.3	203.3	84	42-135
MTBE	<0.9807	48.26	37.30	77	51-120
Isopropyl Ether (DIPE)	<0.8532	48.26	43.46	90	45-120
Ethyl tert-Butyl Ether (ETBE)	<0.7184	48.26	41.50	86	49-120
1,2-Dichloroethane	<0.9081	48.26	34.98	72	53-122
Benzene	<0.8846	48.26	43.44	90	54-121
Methyl tert-Amyl Ether (TAME)	<0.5580	48.26	40.47	84	50-120
Toluene	<0.6974	48.26	39.22	81	47-120
1,2-Dibromoethane	<0.6374	48.26	34.50	71	50-120
Ethylbenzene	<0.6655	48.26	34.96	72	42-122
m,p-Xylenes	<1.227	96.53	70.44	73	39-120
o-Xylene	<0.6138	48.26	31.91	66	39-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	96	80-137
Toluene-d8	110	80-120
Bromofluorobenzene	97	79-127

Type: MSD Diln Fac: 0.9747
 Lab ID: QC695496

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	243.7	204.7	84	42-135	0	53
MTBE	48.73	38.33	79	51-120	2	43
Isopropyl Ether (DIPE)	48.73	44.97	92	45-120	2	45
Ethyl tert-Butyl Ether (ETBE)	48.73	41.82	86	49-120	0	46
1,2-Dichloroethane	48.73	37.38	77	53-122	6	41
Benzene	48.73	44.80	92	54-121	2	43
Methyl tert-Amyl Ether (TAME)	48.73	41.44	85	50-120	1	43
Toluene	48.73	40.47	83	47-120	2	53
1,2-Dibromoethane	48.73	36.01	74	50-120	3	44
Ethylbenzene	48.73	36.20	74	42-122	3	52
m,p-Xylenes	97.47	72.79	75	39-120	2	54
o-Xylene	48.73	33.93	70	39-120	5	54

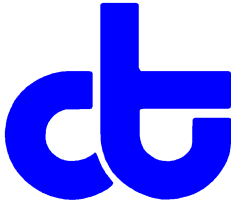
Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	94	80-137
Toluene-d8	107	80-120
Bromofluorobenzene	99	79-127

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900


Laboratory Job Number 246353
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : Buttner
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
EX2-A-9A	246353-001
EX2-A-9A-DUP	246353-002
EX2-B-9A	246353-003
EX2-C-9A	246353-004
EX2-D-9A	246353-005
EX2-BOT-9A	246353-006
EX2-BOT-9B	246353-007
EX2-A-4A	246353-008
EX2-B-4A	246353-009
EX2-C-4A	246353-010
EX2-D-4A	246353-011

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: 
Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/26/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 246353
Client: Applied Water Resources
Project: AWR 13-05
Location: Buttner
Request Date: 06/20/13
Samples Received: 06/20/13

This data package contains sample and QC results for seven soil samples, requested for the above referenced project on 06/20/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

Matrix spikes were not performed for this analysis in batch 199883 due to insufficient sample amount. Matrix spikes were not performed for this analysis in batch 199933 due to insufficient sample amount. High surrogate recovery was observed for dibromofluoromethane in the method blank for batch 199933; no target analytes were detected in the sample. No other analytical problems were encountered.

CHAIN OF CUSTODY



2323 Fifth Street
 Berkeley, CA 94710

Phone (510) 486-0900
 Fax (510) 486-0532

Chain of Custody # _____

C&T LOGIN # 246353

Project No: AWR1305 Sampler: LTL

Project Name: Buttner Report To: tfulmer@awrcorp.net

Project P. O. No: _____ Company: ERS Corp

EDD Format: Report Level I III IV Telephone: (925) 938-1600

Turnaround Time: RUSH 24 TAT Standard Email: Tyson Fulmer

ANALYTICAL REQUEST												
Lab No.	Sample ID.	SAMPLING		MATRIX		# of Containers	CHEMICAL PRESERVATIVE					HOLD JARS
		Date Collected	Time Collected	Water	Solid		HCl	H2SO4	HNO3	NaOH	None	
1	EX2-A-9A	6/20/13	1350	X		6						TPH + BTEX Naphthalene Fuel Oxygenates XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX XXXXX
2	* EX2-A-9A-DUP		1400									
3	EX2-B-9A		1230									
4	EX2-C-9A		1315									
5	EX2-D-9A		1515									
6	* EX2-BOT-9A		1410									
7	* EX2-BOT-9B		1415									
9	EX2-A-4A		1500									
9	EX2-B-4A		1505									
10	EX2-C-4A		1510									
11	EX2-D-4A		1515									

Notes: EX2-A-9A-DUP, EX2-BOT-9A, and 9B are Standard TAT

SAMPLE RECEIPT

Intact

Cold

On Ice

Ambient

RELINQUISHED BY:

Tyson Fulmer DATE: 6/20 TIME: 15:20

DATE: TIME:

DATE: TIME:

RECEIVED BY:

Pat Luffy DATE: 6/20/13 TIME: 15:20

DATE: TIME:

DATE: TIME:

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 246353 Date Received 6/20/13 Number of coolers 1
Client L&L L&P Project AWP1305

Date Opened 6/20/13 By (print) M6 (sign) [signature]
Date Logged in [signature] By (print) [signature] (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C)

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer? 1650

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Gasoline by GC/FID (5035 Prep)			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/20/13
Units:	mg/Kg	Received:	06/20/13
Basis:	as received		

Field ID: EX2-A-9A Diln Fac: 41.67
 Type: SAMPLE Batch#: 199888
 Lab ID: 246353-001 Analyzed: 06/21/13

Analyte	Result	RL
Gasoline C7-C12	91	7.5

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	64-139

Field ID: EX2-A-9A-DUP Diln Fac: 33.33
 Type: SAMPLE Batch#: 199946
 Lab ID: 246353-002 Analyzed: 06/22/13

Analyte	Result	RL
Gasoline C7-C12	88	5.2

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	64-139

Field ID: EX2-B-9A Diln Fac: 1.000
 Type: SAMPLE Batch#: 199888
 Lab ID: 246353-003 Analyzed: 06/21/13

Analyte	Result	RL
Gasoline C7-C12	1.5 Y	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-139

Field ID: EX2-C-9A Diln Fac: 1.000
 Type: SAMPLE Batch#: 199888
 Lab ID: 246353-004 Analyzed: 06/21/13

Analyte	Result	RL
Gasoline C7-C12	2.3 Y	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	123	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/20/13
Units:	mg/Kg	Received:	06/20/13
Basis:	as received		

Field ID: EX2-D-9A Diln Fac: 83.33
 Type: SAMPLE Batch#: 199888
 Lab ID: 246353-005 Analyzed: 06/21/13

Analyte	Result	RL
Gasoline C7-C12	430	18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	64-139

Field ID: EX2-BOT-9A Diln Fac: 333.3
 Type: SAMPLE Batch#: 199989
 Lab ID: 246353-006 Analyzed: 06/23/13

Analyte	Result	RL
Gasoline C7-C12	530	59

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	64-139

Field ID: EX2-BOT-9B Diln Fac: 33.33
 Type: SAMPLE Batch#: 199989
 Lab ID: 246353-007 Analyzed: 06/23/13

Analyte	Result	RL
Gasoline C7-C12	12 Y	5.3

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	64-139

Type: BLANK Batch#: 199888
 Lab ID: QC694422 Analyzed: 06/20/13
 Diln Fac: 1.000

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Gasoline by GC/FID (5035 Prep)

Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/20/13
Units:	mg/Kg	Received:	06/20/13
Basis:	as received		

Type:	BLANK	Batch#:	199946
Lab ID:	QC694665	Analyzed:	06/21/13
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	64-139

Type:	BLANK	Batch#:	199989
Lab ID:	QC694844	Analyzed:	06/23/13
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC694421	Batch#:	199888
Matrix:	Soil	Analyzed:	06/20/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.073	107	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	64-139

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	246311-001	Batch#:	199888
Matrix:	Soil	Sampled:	06/19/13
Units:	mg/Kg	Received:	06/19/13
Basis:	as received	Analyzed:	06/20/13

Type: MS Lab ID: QC694423

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.05177	10.31	8.759	85	42-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	64-139

Type: MSD Lab ID: QC694424

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.31	8.477	82	42-120	3	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	64-139

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC694664	Batch#:	199946
Matrix:	Soil	Analyzed:	06/21/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9901	99	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	246375-001	Batch#:	199946
Matrix:	Soil	Sampled:	06/19/13
Units:	mg/Kg	Received:	06/19/13
Basis:	as received	Analyzed:	06/21/13

Type: MS Lab ID: QC694666

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.07733	10.87	8.264	76	42-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	64-139

Type: MSD Lab ID: QC694667

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.901	7.649	77	42-120	2	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	64-139

RPD= Relative Percent Difference

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC694843	Batch#:	199989
Matrix:	Soil	Analyzed:	06/23/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9133	91	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	64-139

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	246397-001	Batch#:	199989
Matrix:	Soil	Sampled:	06/21/13
Units:	mg/Kg	Received:	06/21/13
Basis:	as received	Analyzed:	06/24/13

Type: MS Lab ID: QC694845

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.2008	10.31	6.711	63	42-120

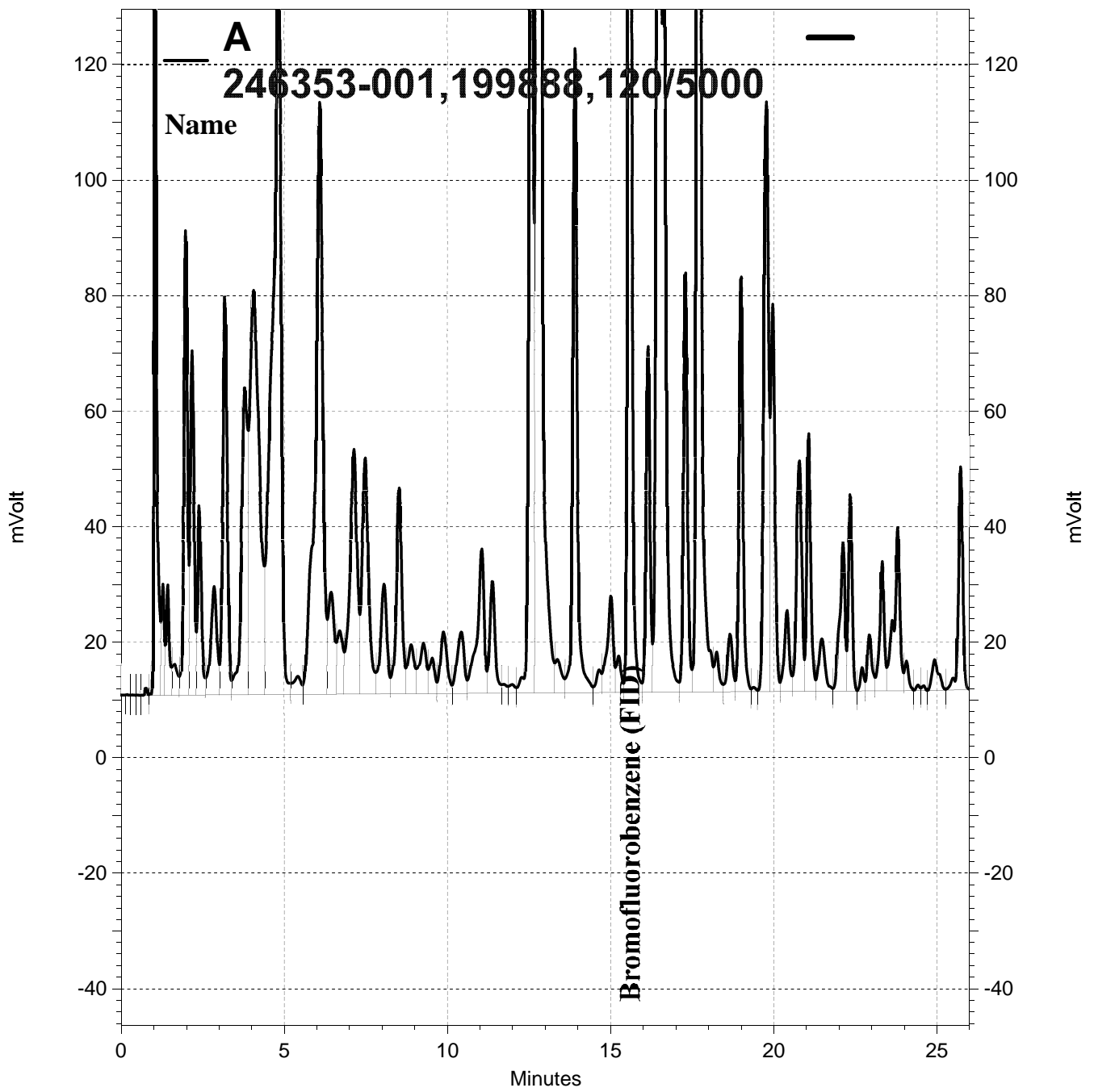
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	64-139

Type: MSD Lab ID: QC694846

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.174	6.011	63	42-120	0	42

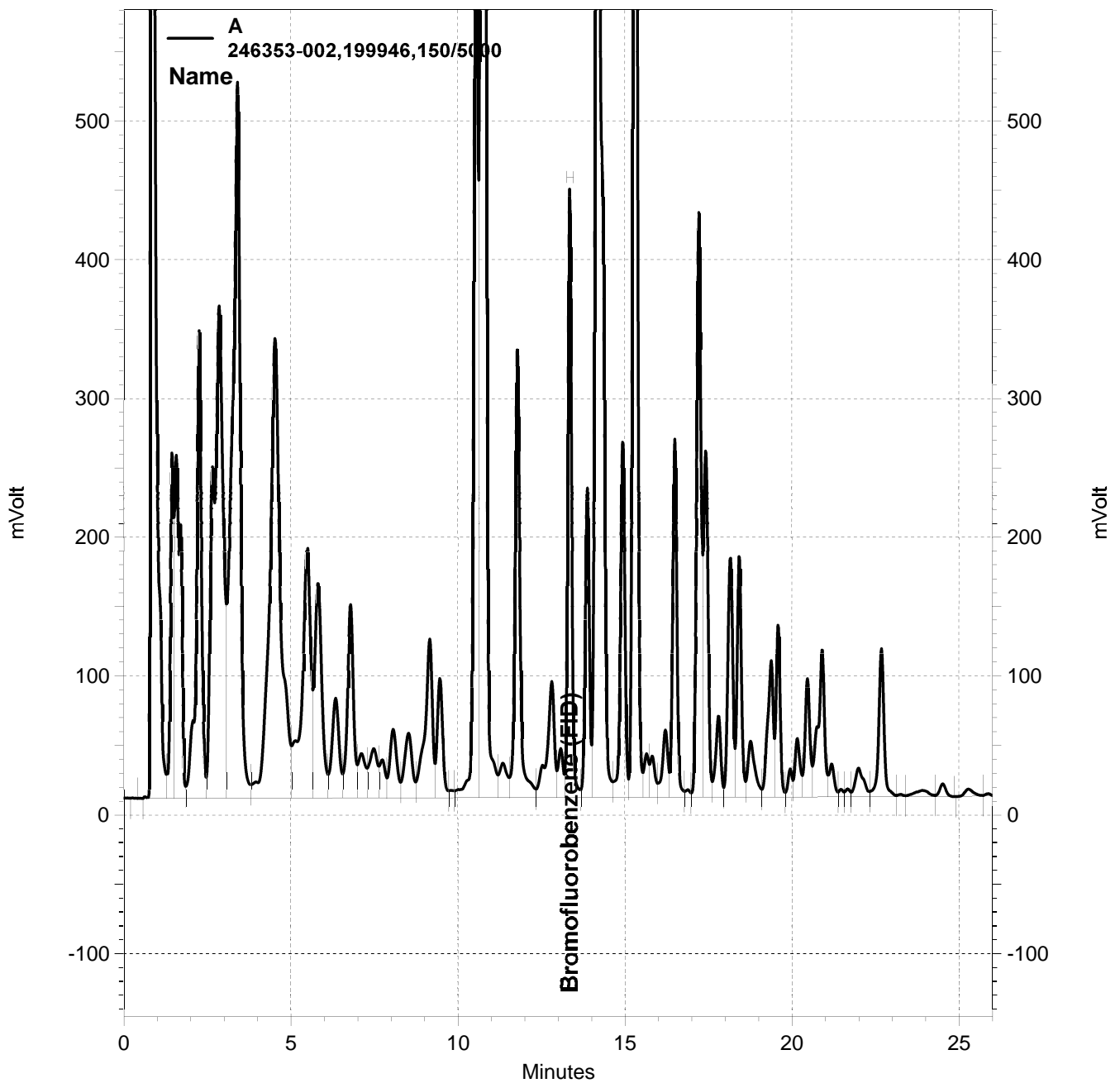
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

RPD= Relative Percent Difference

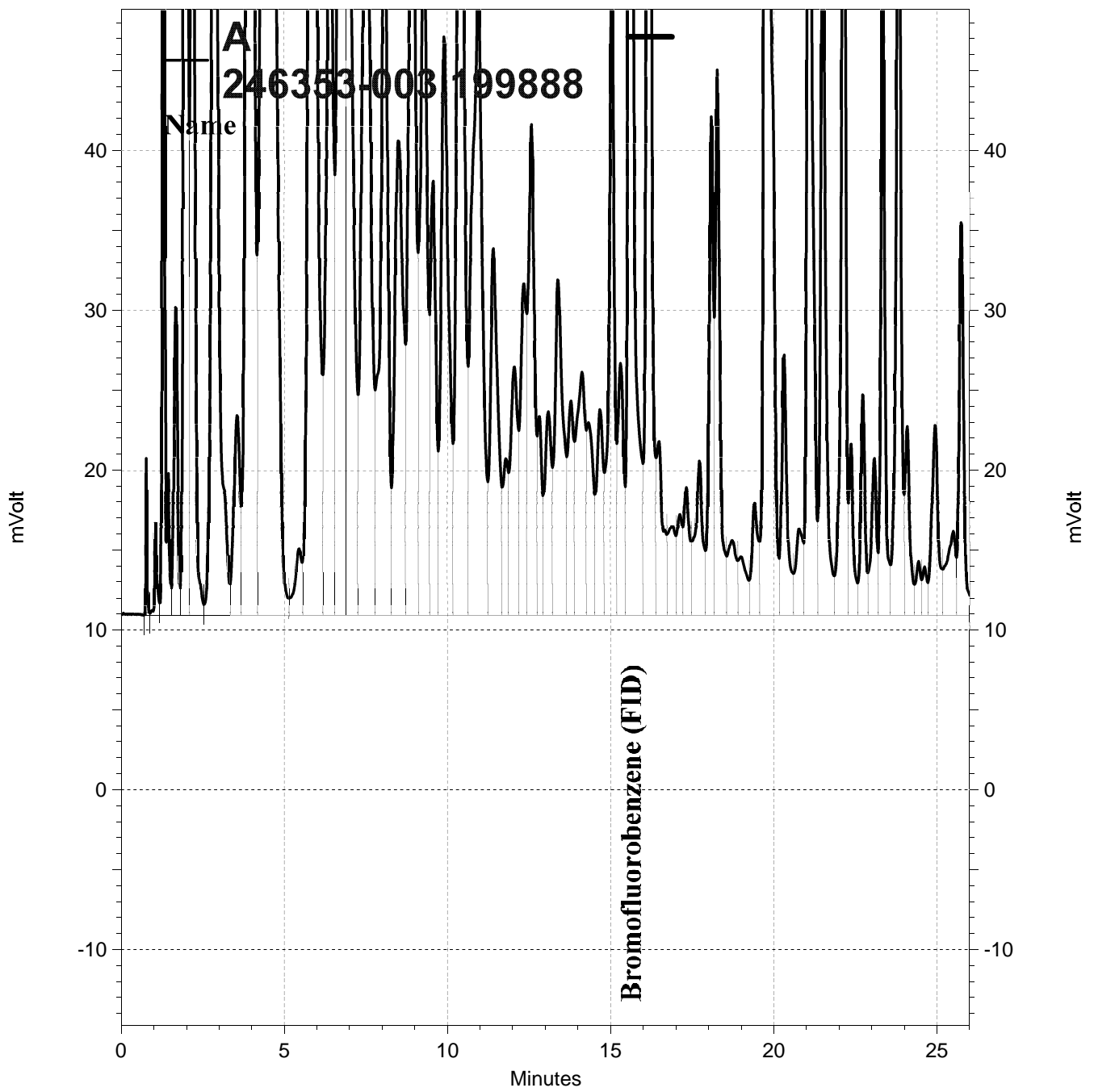


— \\Lims\gdrive\ezchrom\Projects\GC07\Data\171-032, A

— \\Lims\gdrive\ezchrom\Projects\GC07\Data\348-006,

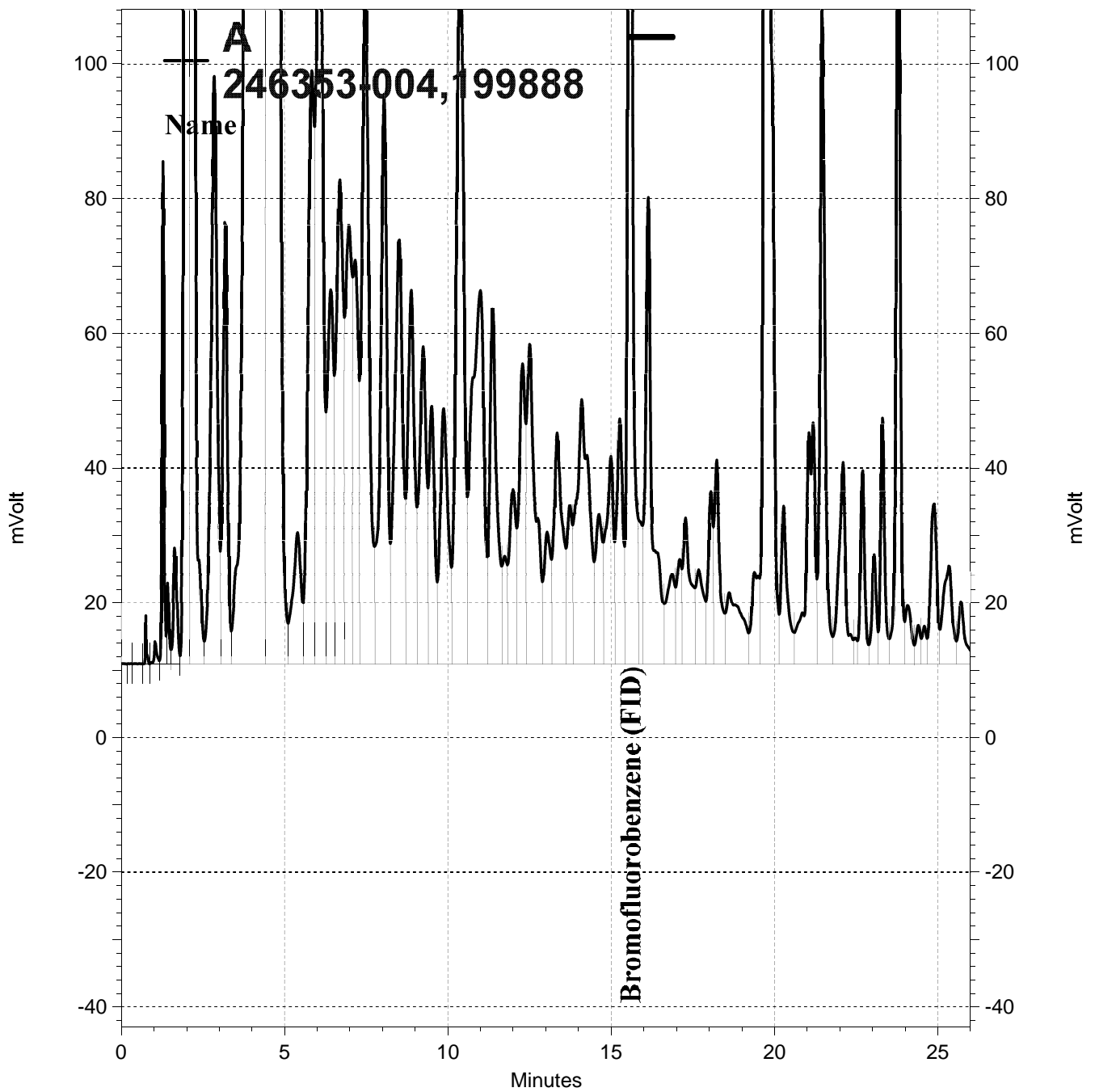


— \\Lims\gdrive\ezchrom\Projects\GC04\Data\172-025, A



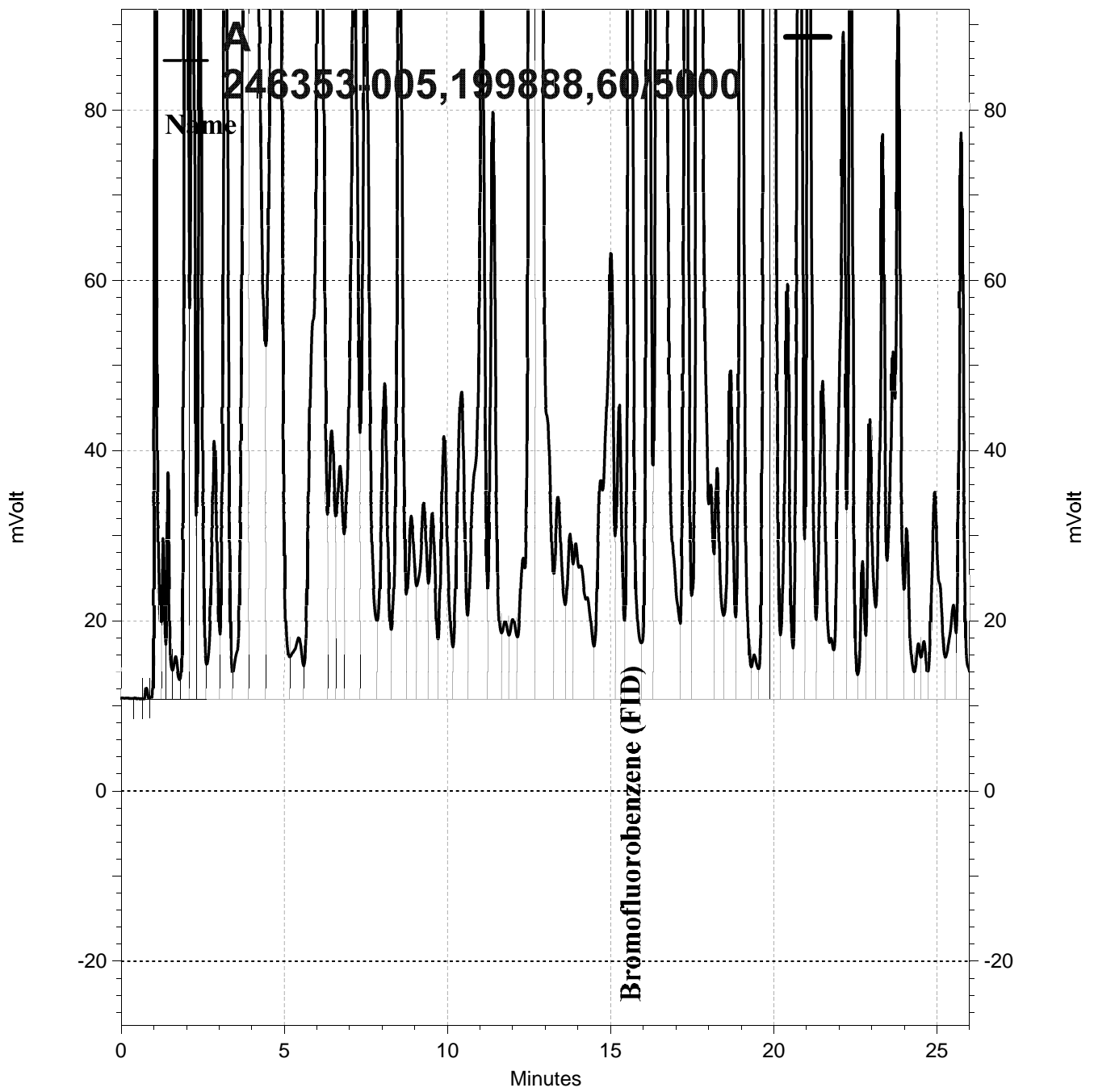
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\171-031, A

— \\Lims\gdrive\ezchrom\Projects\GC07\Data\348-006,



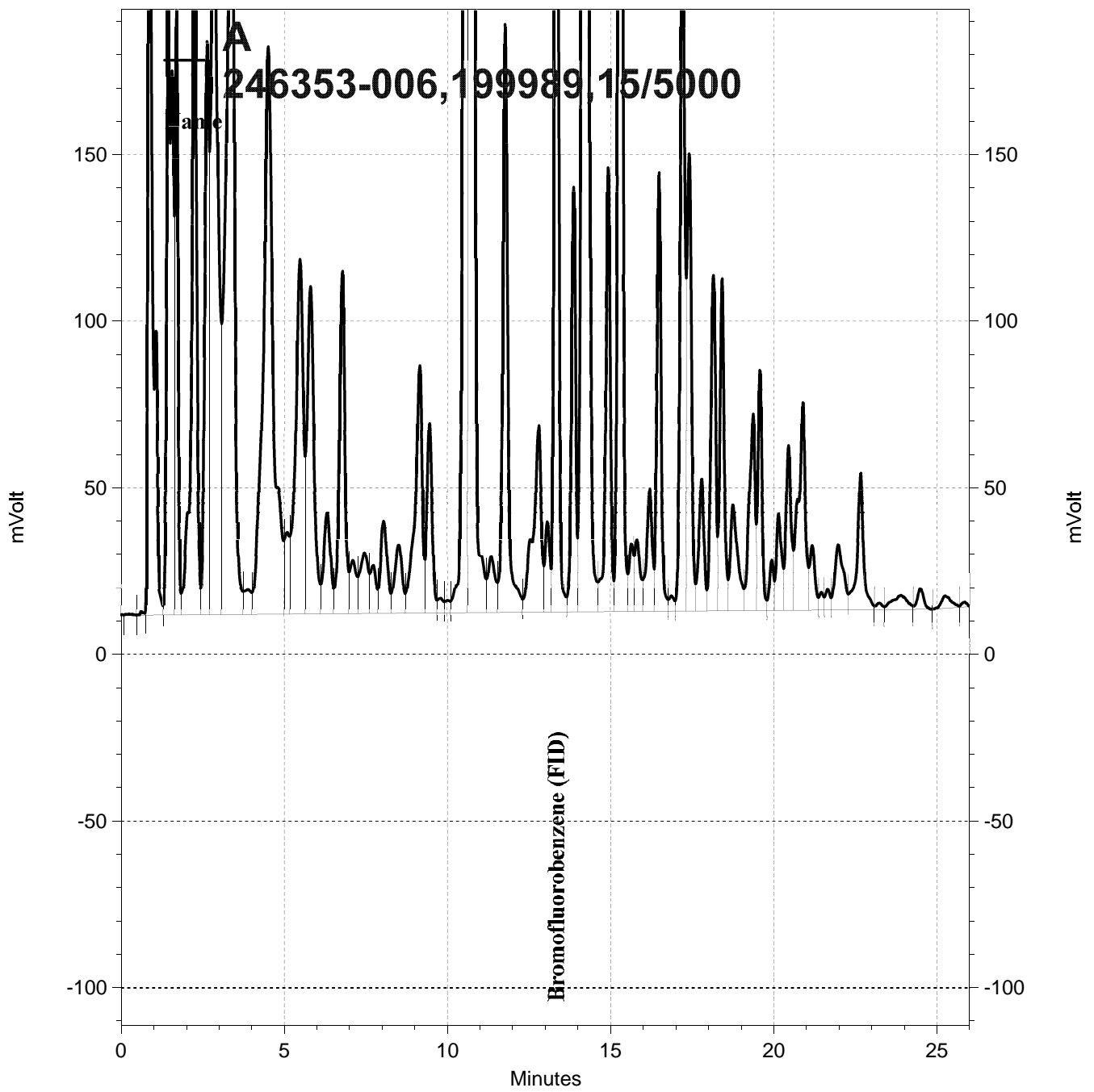
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\171-026, A

— \\Lims\gdrive\ezchrom\Projects\GC07\Data\348-006,

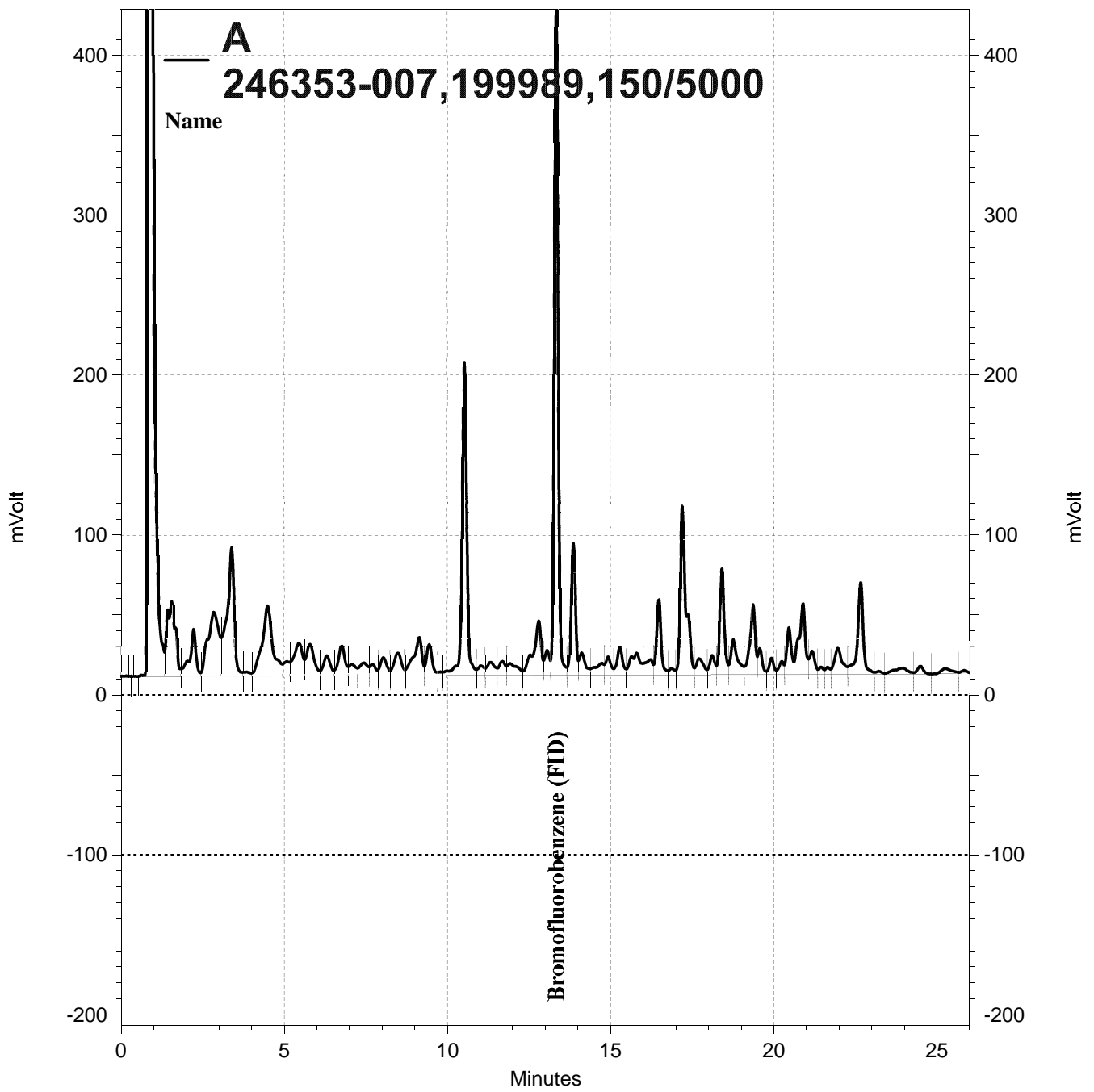


— \\Lims\gdrive\ezchrom\Projects\GC07\Data\171-033, A

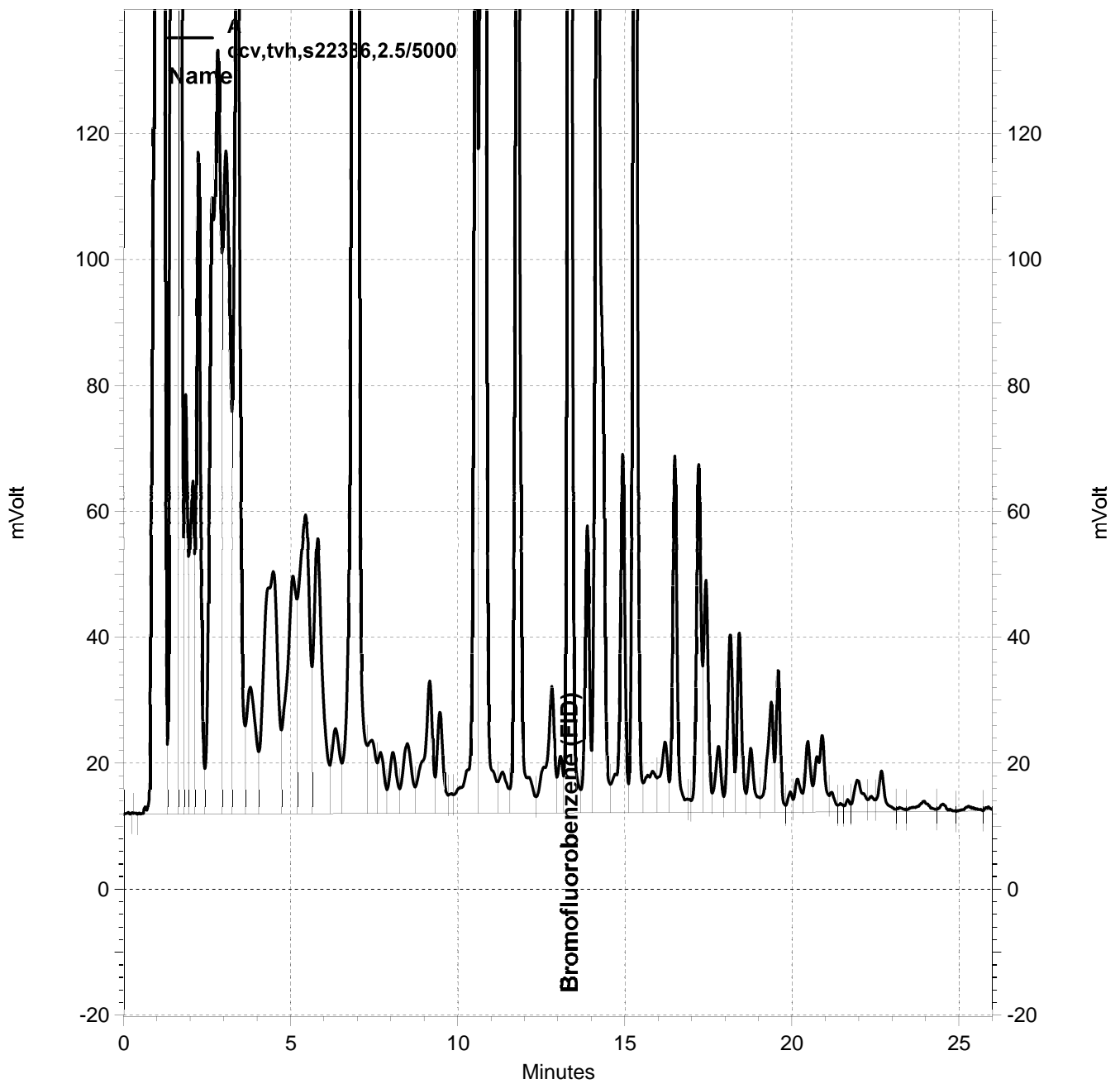
— \\Lims\gdrive\ezchrom\Projects\GC07\Data\348-006,



— \\Lims\gdrive\ezchrom\Projects\GC04\Data\174-007, A



— \\Lims\gdrive\ezchrom\Projects\GC04\Data\174-008, A



— \\Lims\gdrive\ezchrom\Projects\GC04\Data\172-002, A

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-A-9A	Diln Fac:	45.30
Lab ID:	246353-001	Batch#:	199937
Matrix:	Soil	Sampled:	06/20/13
Units:	ug/Kg	Received:	06/20/13
Basis:	as received	Analyzed:	06/21/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	4,500
MTBE	ND	230
Isopropyl Ether (DIPE)	ND	230
Ethyl tert-Butyl Ether (ETBE)	ND	230
1,2-Dichloroethane	ND	230
Benzene	1,000	230
Methyl tert-Amyl Ether (TAME)	ND	230
Toluene	ND	230
1,2-Dibromoethane	ND	230
Ethylbenzene	2,400	230
m,p-Xylenes	9,600	230
o-Xylene	1,400	230
Naphthalene	1,000	230

Surrogate	%REC	Limits
Dibromofluoromethane	86	80-124
1,2-Dichloroethane-d4	86	80-137
Toluene-d8	110	80-120
Bromofluorobenzene	102	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-A-9A-DUP	Diln Fac:	38.64
Lab ID:	246353-002	Batch#:	199883
Matrix:	Soil	Sampled:	06/20/13
Units:	ug/Kg	Received:	06/20/13
Basis:	as received	Analyzed:	06/20/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	3,900
MTBE	ND	190
Isopropyl Ether (DIPE)	ND	190
Ethyl tert-Butyl Ether (ETBE)	ND	190
1,2-Dichloroethane	ND	190
Benzene	740	190
Methyl tert-Amyl Ether (TAME)	ND	190
Toluene	ND	190
1,2-Dibromoethane	ND	190
Ethylbenzene	2,400	190
m,p-Xylenes	11,000	190
o-Xylene	1,300	190
Naphthalene	790	190

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	84	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-B-9A	Diln Fac:	0.8621
Lab ID:	246353-003	Batch#:	199933
Matrix:	Soil	Sampled:	06/20/13
Units:	ug/Kg	Received:	06/20/13
Basis:	as received	Analyzed:	06/21/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	86
MTBE	ND	4.3
Isopropyl Ether (DIPE)	ND	4.3
Ethyl tert-Butyl Ether (ETBE)	ND	4.3
1,2-Dichloroethane	ND	4.3
Benzene	ND	4.3
Methyl tert-Amyl Ether (TAME)	ND	4.3
Toluene	ND	4.3
1,2-Dibromoethane	ND	4.3
Ethylbenzene	ND	4.3
m,p-Xylenes	ND	4.3
o-Xylene	ND	4.3
Naphthalene	55	4.3

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	118	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-C-9A	Diln Fac:	0.7440
Lab ID:	246353-004	Batch#:	199883
Matrix:	Soil	Sampled:	06/20/13
Units:	ug/Kg	Received:	06/20/13
Basis:	as received	Analyzed:	06/20/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	74
MTBE	ND	3.7
Isopropyl Ether (DIPE)	ND	3.7
Ethyl tert-Butyl Ether (ETBE)	ND	3.7
1,2-Dichloroethane	ND	3.7
Benzene	4.1	3.7
Methyl tert-Amyl Ether (TAME)	ND	3.7
Toluene	ND	3.7
1,2-Dibromoethane	ND	3.7
Ethylbenzene	ND	3.7
m,p-Xylenes	ND	3.7
o-Xylene	ND	3.7
Naphthalene	ND	3.7

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-124
1,2-Dichloroethane-d4	116	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	95	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-D-9A	Diln Fac:	76.43
Lab ID:	246353-005	Batch#:	199933
Matrix:	Soil	Sampled:	06/20/13
Units:	ug/Kg	Received:	06/20/13
Basis:	as received	Analyzed:	06/21/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	7,600
MTBE	ND	380
Isopropyl Ether (DIPE)	ND	380
Ethyl tert-Butyl Ether (ETBE)	ND	380
1,2-Dichloroethane	ND	380
Benzene	900	380
Methyl tert-Amyl Ether (TAME)	ND	380
Toluene	ND	380
1,2-Dibromoethane	ND	380
Ethylbenzene	6,500	380
m,p-Xylenes	19,000	380
o-Xylene	ND	380
Naphthalene	3,100	380

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-124
1,2-Dichloroethane-d4	93	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	100	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-BOT-9A	Diln Fac:	219.7
Lab ID:	246353-006	Batch#:	199883
Matrix:	Soil	Sampled:	06/20/13
Units:	ug/Kg	Received:	06/20/13
Basis:	as received	Analyzed:	06/21/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	22,000
MTBE	ND	1,100
Isopropyl Ether (DIPE)	ND	1,100
Ethyl tert-Butyl Ether (ETBE)	ND	1,100
1,2-Dichloroethane	ND	1,100
Benzene	2,400	1,100
Methyl tert-Amyl Ether (TAME)	ND	1,100
Toluene	ND	1,100
1,2-Dibromoethane	ND	1,100
Ethylbenzene	13,000	1,100
m,p-Xylenes	53,000	1,100
o-Xylene	7,800	1,100
Naphthalene	3,500	1,100

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	96	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	82	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-BOT-9B	Basis:	as received
Lab ID:	246353-007	Sampled:	06/20/13
Matrix:	Soil	Received:	06/20/13
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
tert-Butyl Alcohol (TBA)	ND	89	0.8913	199883	06/20/13
MTBE	ND	4.5	0.8913	199883	06/20/13
Isopropyl Ether (DIPE)	ND	4.5	0.8913	199883	06/20/13
Ethyl tert-Butyl Ether (ETBE)	ND	4.5	0.8913	199883	06/20/13
1,2-Dichloroethane	ND	4.5	0.8913	199883	06/20/13
Benzene	120	4.5	0.8913	199883	06/20/13
Methyl tert-Amyl Ether (TAME)	ND	4.5	0.8913	199883	06/20/13
Toluene	ND	4.5	0.8913	199883	06/20/13
1,2-Dibromoethane	ND	4.5	0.8913	199883	06/20/13
Ethylbenzene	630	200	39.50	199933	06/21/13
m,p-Xylenes	5.4	4.5	0.8913	199883	06/20/13
o-Xylene	ND	4.5	0.8913	199883	06/20/13
Naphthalene	430	200	39.50	199933	06/21/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	101	80-124	0.8913	199883	06/20/13
1,2-Dichloroethane-d4	103	80-137	0.8913	199883	06/20/13
Toluene-d8	97	80-120	0.8913	199883	06/20/13
Bromofluorobenzene	91	79-127	0.8913	199883	06/20/13

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199883
Units:	ug/Kg	Analyzed:	06/20/13
Diln Fac:	1.000		

Type: BS Lab ID: QC694406

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	128.5	103	53-141
MTBE	25.00	25.50	102	65-121
Isopropyl Ether (DIPE)	25.00	23.10	92	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	24.54	98	62-121
1,2-Dichloroethane	25.00	31.04	124	74-133
Benzene	25.00	27.97	112	77-126
Methyl tert-Amyl Ether (TAME)	25.00	26.36	105	66-120
Toluene	25.00	27.74	111	76-124
1,2-Dibromoethane	25.00	26.69	107	78-120
Ethylbenzene	25.00	28.75	115	76-127
m,p-Xylenes	50.00	55.67	111	74-126
o-Xylene	25.00	26.38	106	70-120

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-124
1,2-Dichloroethane-d4	123	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	89	79-127

Type: BSD Lab ID: QC694407

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	107.2	86	53-141	18	34
MTBE	25.00	23.28	93	65-121	9	22
Isopropyl Ether (DIPE)	25.00	21.08	84	57-122	9	26
Ethyl tert-Butyl Ether (ETBE)	25.00	21.79	87	62-121	12	28
1,2-Dichloroethane	25.00	28.00	112	74-133	10	23
Benzene	25.00	24.56	98	77-126	13	20
Methyl tert-Amyl Ether (TAME)	25.00	24.06	96	66-120	9	24
Toluene	25.00	24.99	100	76-124	10	26
1,2-Dibromoethane	25.00	25.47	102	78-120	5	20
Ethylbenzene	25.00	26.27	105	76-127	9	24
m,p-Xylenes	50.00	51.89	104	74-126	7	24
o-Xylene	25.00	24.38	98	70-120	8	22

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-124
1,2-Dichloroethane-d4	113	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	91	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC694569	Batch#:	199883
Matrix:	Soil	Analyzed:	06/20/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-124
1,2-Dichloroethane-d4	112	80-137
Toluene-d8	105	80-120
Bromofluorobenzene	97	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199933
Units:	ug/Kg	Analyzed:	06/21/13
Diln Fac:	1.000		

Type: BS Lab ID: QC694613

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	109.1	87	53-141
MTBE	25.00	22.57	90	65-121
Isopropyl Ether (DIPE)	25.00	26.95	108	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	23.17	93	62-121
1,2-Dichloroethane	25.00	19.95	80	74-133
Benzene	25.00	24.52	98	77-126
Methyl tert-Amyl Ether (TAME)	25.00	20.32	81	66-120
Toluene	25.00	23.05	92	76-124
1,2-Dibromoethane	25.00	20.49	82	78-120
Ethylbenzene	25.00	22.51	90	76-127
m,p-Xylenes	50.00	44.20	88	74-126
o-Xylene	25.00	19.47	78	70-120

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-124
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	106	79-127

Type: BSD Lab ID: QC694614

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	113.7	91	53-141	4	34
MTBE	25.00	22.37	89	65-121	1	22
Isopropyl Ether (DIPE)	25.00	27.03	108	57-122	0	26
Ethyl tert-Butyl Ether (ETBE)	25.00	23.15	93	62-121	0	28
1,2-Dichloroethane	25.00	20.14	81	74-133	1	23
Benzene	25.00	24.25	97	77-126	1	20
Methyl tert-Amyl Ether (TAME)	25.00	20.36	81	66-120	0	24
Toluene	25.00	22.48	90	76-124	2	26
1,2-Dibromoethane	25.00	20.00	80	78-120	2	20
Ethylbenzene	25.00	21.94	88	76-127	3	24
m,p-Xylenes	50.00	43.52	87	74-126	2	24
o-Xylene	25.00	19.15	77	70-120	2	22

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-124
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	108	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC694615	Batch#:	199933
Matrix:	Soil	Analyzed:	06/21/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	133 *	80-124
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	104	80-120
Bromofluorobenzene	101	79-127

*= Value outside of QC limits; see narrative

ND= Not Detected

RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199937
Units:	ug/Kg	Analyzed:	06/21/13
Diln Fac:	1.000		

Type: BS Lab ID: QC694627

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	130.1	104	53-141
MTBE	25.00	22.19	89	65-121
Isopropyl Ether (DIPE)	25.00	29.21	117	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	24.78	99	62-121
1,2-Dichloroethane	25.00	23.94	96	74-133
Benzene	25.00	29.48	118	77-126
Methyl tert-Amyl Ether (TAME)	25.00	24.52	98	66-120
Toluene	25.00	28.29	113	76-124
1,2-Dibromoethane	25.00	25.24	101	78-120
Ethylbenzene	25.00	27.24	109	76-127
m,p-Xylenes	50.00	55.82	112	74-126
o-Xylene	25.00	26.34	105	70-120

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-124
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	95	79-127

Type: BSD Lab ID: QC694628

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	122.3	98	53-141	6	34
MTBE	25.00	22.01	88	65-121	1	22
Isopropyl Ether (DIPE)	25.00	27.15	109	57-122	7	26
Ethyl tert-Butyl Ether (ETBE)	25.00	24.30	97	62-121	2	28
1,2-Dichloroethane	25.00	23.68	95	74-133	1	23
Benzene	25.00	28.97	116	77-126	2	20
Methyl tert-Amyl Ether (TAME)	25.00	24.65	99	66-120	1	24
Toluene	25.00	27.33	109	76-124	3	26
1,2-Dibromoethane	25.00	24.82	99	78-120	2	20
Ethylbenzene	25.00	26.27	105	76-127	4	24
m,p-Xylenes	50.00	54.09	108	74-126	3	24
o-Xylene	25.00	26.15	105	70-120	1	22

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-124
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	93	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC694629	Batch#:	199937
Matrix:	Soil	Analyzed:	06/21/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-124
1,2-Dichloroethane-d4	89	80-137
Toluene-d8	110	80-120
Bromofluorobenzene	98	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	246353	Location:	Buttner
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	199937
MSS Lab ID:	246342-005	Sampled:	06/19/13
Matrix:	Soil	Received:	06/20/13
Units:	ug/Kg	Analyzed:	06/21/13
Basis:	as received		

Type: MS
Lab ID: QC694659

Diln Fac: 0.9042

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<12.74	226.0	181.6	80	42-135
MTBE	<0.9619	45.21	37.13	82	51-120
Isopropyl Ether (DIPE)	<0.8368	45.21	48.69	108	45-120
Ethyl tert-Butyl Ether (ETBE)	<0.7046	45.21	43.23	96	49-120
1,2-Dichloroethane	<0.8907	45.21	30.47	67	53-122
Benzene	<0.8676	45.21	41.30	91	54-121
Methyl tert-Amyl Ether (TAME)	<0.5473	45.21	41.56	92	50-120
Toluene	<0.6840	45.21	40.70	90	47-120
1,2-Dibromoethane	<0.6251	45.21	35.49	78	50-120
Ethylbenzene	<0.6527	45.21	37.84	84	42-122
m,p-Xylenes	<1.203	90.42	79.35	88	39-120
o-Xylene	<0.6020	45.21	36.93	82	39-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	86	80-137
Toluene-d8	110	80-120
Bromofluorobenzene	97	79-127

Type: MSD
Lab ID: QC694660

Diln Fac: 1.012

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	253.0	229.7	91	42-135	12	53
MTBE	50.61	42.73	84	51-120	3	43
Isopropyl Ether (DIPE)	50.61	56.15	111	45-120	3	45
Ethyl tert-Butyl Ether (ETBE)	50.61	49.73	98	49-120	3	46
1,2-Dichloroethane	50.61	38.99	77	53-122	13	41
Benzene	50.61	51.62	102	54-121	11	43
Methyl tert-Amyl Ether (TAME)	50.61	48.14	95	50-120	3	43
Toluene	50.61	50.42	100	47-120	10	53
1,2-Dibromoethane	50.61	45.31	90	50-120	13	44
Ethylbenzene	50.61	49.04	97	42-122	15	52
m,p-Xylenes	101.2	100.6	99	39-120	12	54
o-Xylene	50.61	47.77	94	39-120	14	54

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-124
1,2-Dichloroethane-d4	83	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	99	79-127

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 246341
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
EX1-BOT-17A-D	246341-001
EX1-A-4B-D	246341-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/26/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 246341
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/20/13
Samples Received: 06/11/13

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 06/20/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

High surrogate recovery was observed for o-terphenyl in the method blank for batch 199954; no target analytes were detected in the sample. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

Matrix spikes were not performed for this analysis in batch 199902 due to insufficient sample amount. 246341-001 was analyzed outside of hold time; affected data was qualified with "b". No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

High recoveries were observed for acenaphthene and pyrene in the MSD for batch 200006; the parent sample was not a project sample, and the LCS was within limits. High RPD was observed for pyrene in the MS/MSD for batch 200006. EX1-A-4B-D (lab # 246341-002) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Metals (EPA 6010B):

Low recovery was observed for nickel in the MSD for batch 199929; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. Zinc was detected above the RL in the method blank for batch 199929; this analyte was detected in the sample at a level at least 10 times that of the blank. No other analytical problems were encountered.

CT# 246341

Subject: RE: AWR 13-05 - C&T Login Summary (246061)
From: Tyson Fulmer <tfulmer@awrcorp.net>
Date: 6/20/2013 12:52 PM
To: Tracy Babjar <tracy.babjar@ctberk.com>
CC: Steve Michelson <smichelson@awrcorp.net>, Yola Bayram <ybayram@awrcorp.net>, Logan Linderman <llinderman@waterk.net>

Great, please analyze the following:

- Sample 246061-001 (EX1-BOT-17A) for TPHg,d, mo, w SG cleanup, VOCs w/ lead scav and fuel oxy, and LUFT-5 metals
- Sample 246033-001 (EX1-A-4B) for PAHs.

I know you mentioned that you don't have a lot of wiggle room with only 2 DI VOAs, if there is a problem with sample 246061-001, we are fine to analyze 002 instead. Please put a -D at the end of the Client Sample ID. We don't need a rush TAT with these results, but please make sure they are analyzed within hold.

Logan will be delivering a total of 7 samples today, one of which will be a duplicate. Thanks,

Tyson Fulmer, PG
AWR Corp

From: Tracy Babjar [mailto:tracy.babjar@ctberk.com]
Sent: Thursday, June 20, 2013 11:33 AM
To: Tyson Fulmer
Subject: Re: AWR 13-05 - C&T Login Summary (246061)

Tyson,

We do have 2 unused DI VOAs for -001 & -002. It does not give us much wiggle room if anything goes wrong.

Please advise.

Tracy

On 6/20/2013 11:11 AM, Tyson Fulmer wrote:

Thanks Tracy, you heard from Logan right? it looks like he might have as many as 10 samples today. Most will be on a rush TAT.

Regards,

Tyson Fulmer, PG
AWR Corp

From: Tracy Babjar [mailto:tracy.babjar@ctberk.com]
Sent: Thursday, June 20, 2013 11:10 AM
To: Tyson Fulmer
Subject: Re: AWR 13-05 - C&T Login Summary (246061)

Tyson,

We have the jar left. I am waiting to hear back from my volatiles lab.

COOLER RECEIPT CHECKLIST



Login # 246061 Date Received 6/11/13 Number of coolers 8
Client AWR Project AWR 13-05

Date Opened 6/11 By (print) M.C. (sign) [Signature]
Date Logged in 6/12 By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Cloth material, Foam blocks, Cardboard, Bags, Styrofoam, None, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet, Blue/Gel, None Temp(°C)

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO TR
If YES, what time were they transferred to freezer? 1730

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A TR

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

COOLER RECEIPT CHECKLIST



Login # 246033 Date Received 6/11/13 Number of coolers 1
 Client AWR Project 2250 Telegraph
 Date Opened 6/11/13 By (print) AA (sign) [Signature]
 Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
 Shipping info _____

2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? _____ YES NO N/A

3. Were custody papers dry and intact when received? _____ YES NO

4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) _____ YES NO

6. Indicate the packing in cooler: (if other, describe) _____

- Bubble Wrap Foam blocks Bags None
- Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) 1.3

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
 If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened? _____ YES NO

10. Are there any missing / extra samples? _____ YES NO

11. Are samples in the appropriate containers for indicated tests? _____ YES NO

12. Are sample labels present, in good condition and complete? _____ YES NO

13. Do the sample labels agree with custody papers? _____ YES NO

14. Was sufficient amount of sample sent for tests requested? _____ YES NO

15. Are the samples appropriately preserved? _____ YES NO N/A

16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A

17. Did you document your preservative check? _____ YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A

21. Was the client contacted concerning this sample delivery? _____ YES NO

If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Gasoline by GC/FID (5035 Prep)			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	EX1-BOT-17A-D	Diln Fac:	1.000
Matrix:	Soil	Batch#:	199666
Units:	mg/Kg	Sampled:	06/11/13
Basis:	as received	Received:	06/11/13

Type: SAMPLE Analyzed: 06/14/13
 Lab ID: 246341-001

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	64-139

Type: BLANK Analyzed: 06/13/13
 Lab ID: QC693521

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	64-139

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC693520	Batch#:	199666
Matrix:	Soil	Analyzed:	06/13/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.079	108	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	64-139

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	246083-001	Batch#:	199666
Matrix:	Soil	Sampled:	06/10/13
Units:	mg/Kg	Received:	06/12/13
Basis:	as received	Analyzed:	06/13/13

Type: MS Lab ID: QC693522

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.07056	9.346	6.201	66	42-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	64-139

Type: MSD Lab ID: QC693523

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.901	6.395	64	42-120	3	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

RPD= Relative Percent Difference

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC694687	Batch#:	199954
Matrix:	Soil	Prepared:	06/21/13
Units:	mg/Kg	Analyzed:	06/23/13

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.83	54.78	110	62-130

Surrogate	%REC	Limits
o-Terphenyl	130	62-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	199954
MSS Lab ID:	246192-011	Sampled:	06/14/13
Matrix:	Soil	Received:	06/14/13
Units:	mg/Kg	Prepared:	06/21/13
Basis:	as received	Analyzed:	06/23/13
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC694688

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	11.19	50.26	61.14	99	39-148

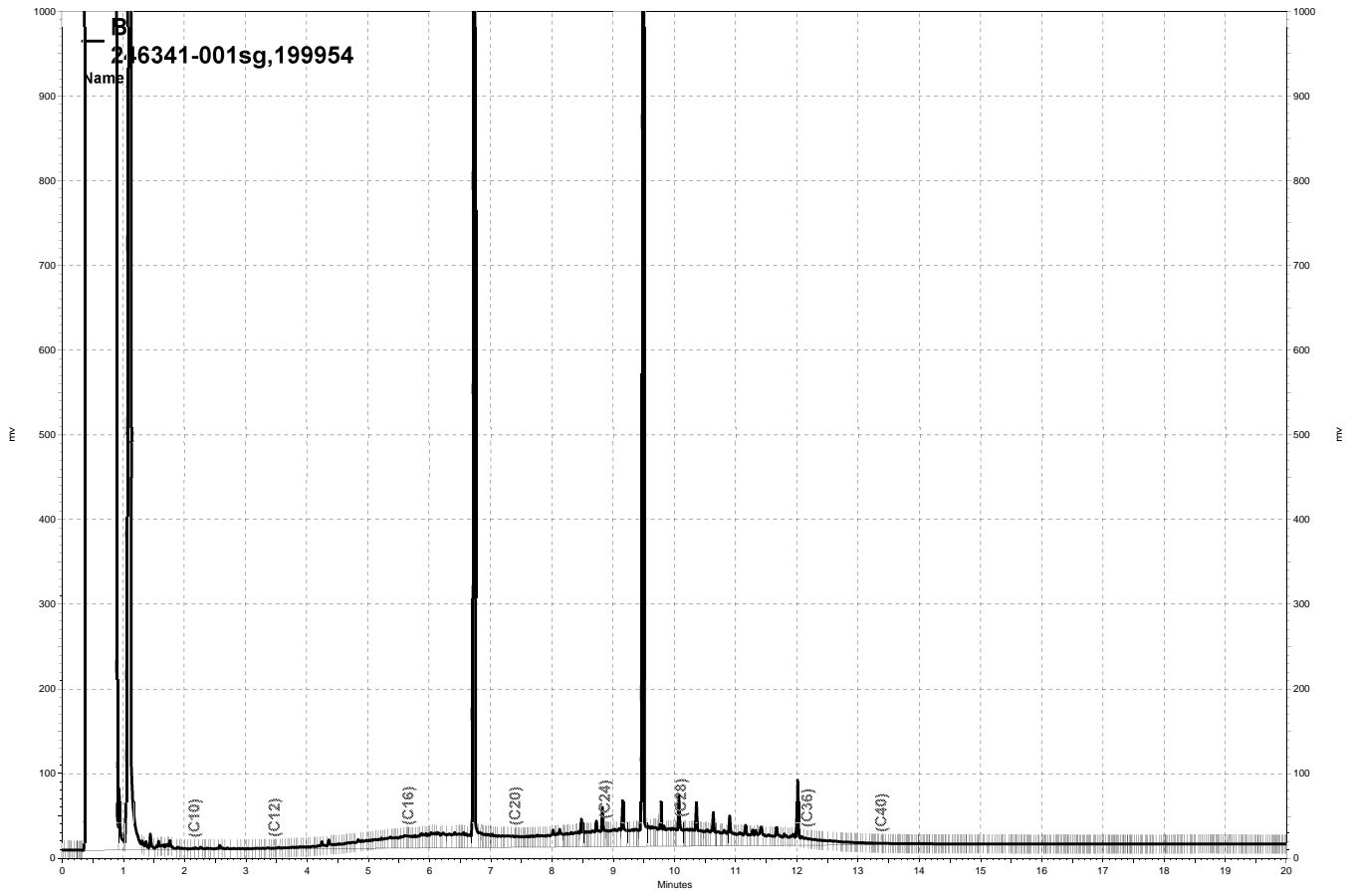
Surrogate	%REC	Limits
o-Terphenyl	127	62-136

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC694689

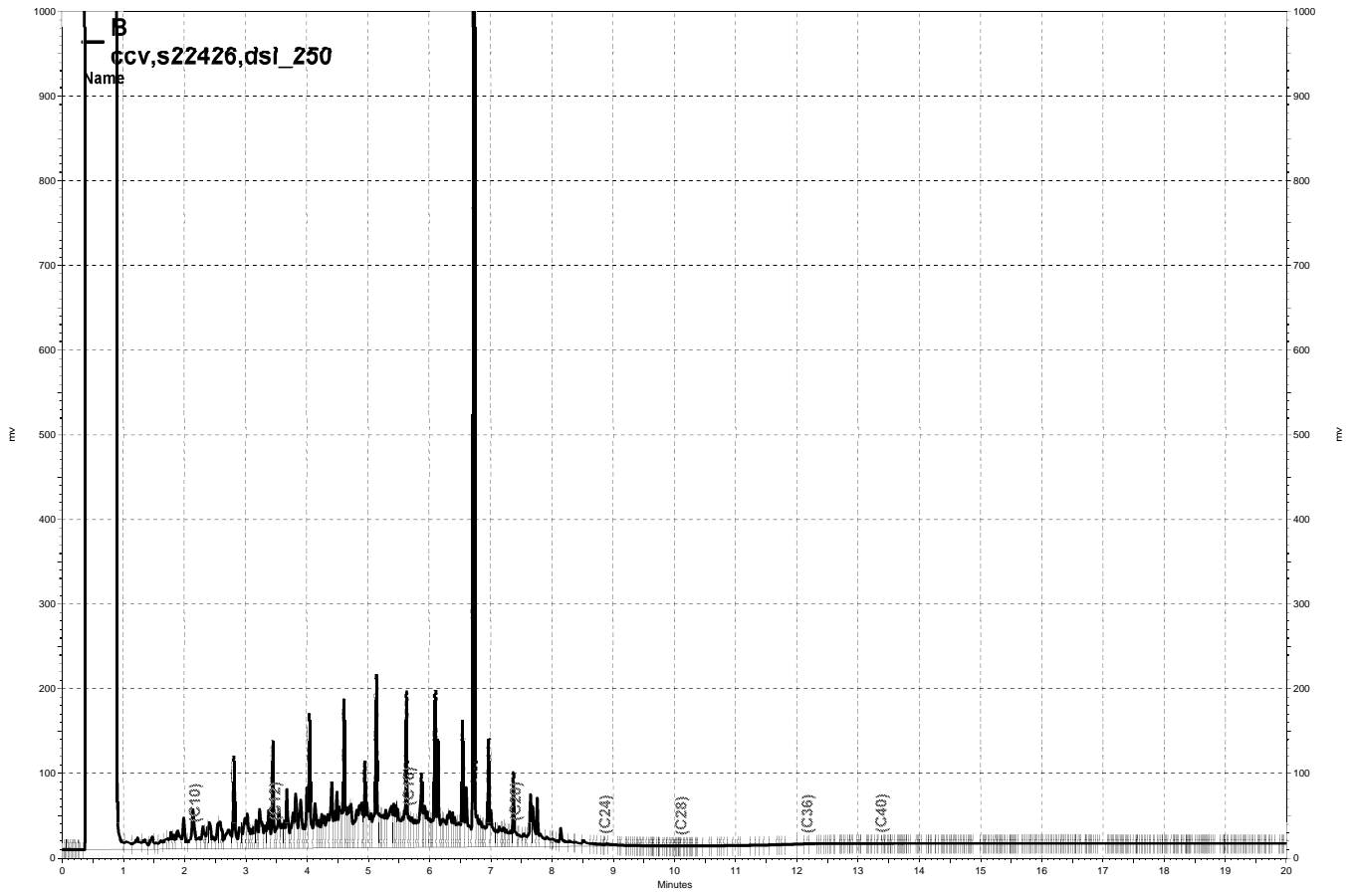
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.68	61.53	101	39-148	2	45

Surrogate	%REC	Limits
o-Terphenyl	127	62-136

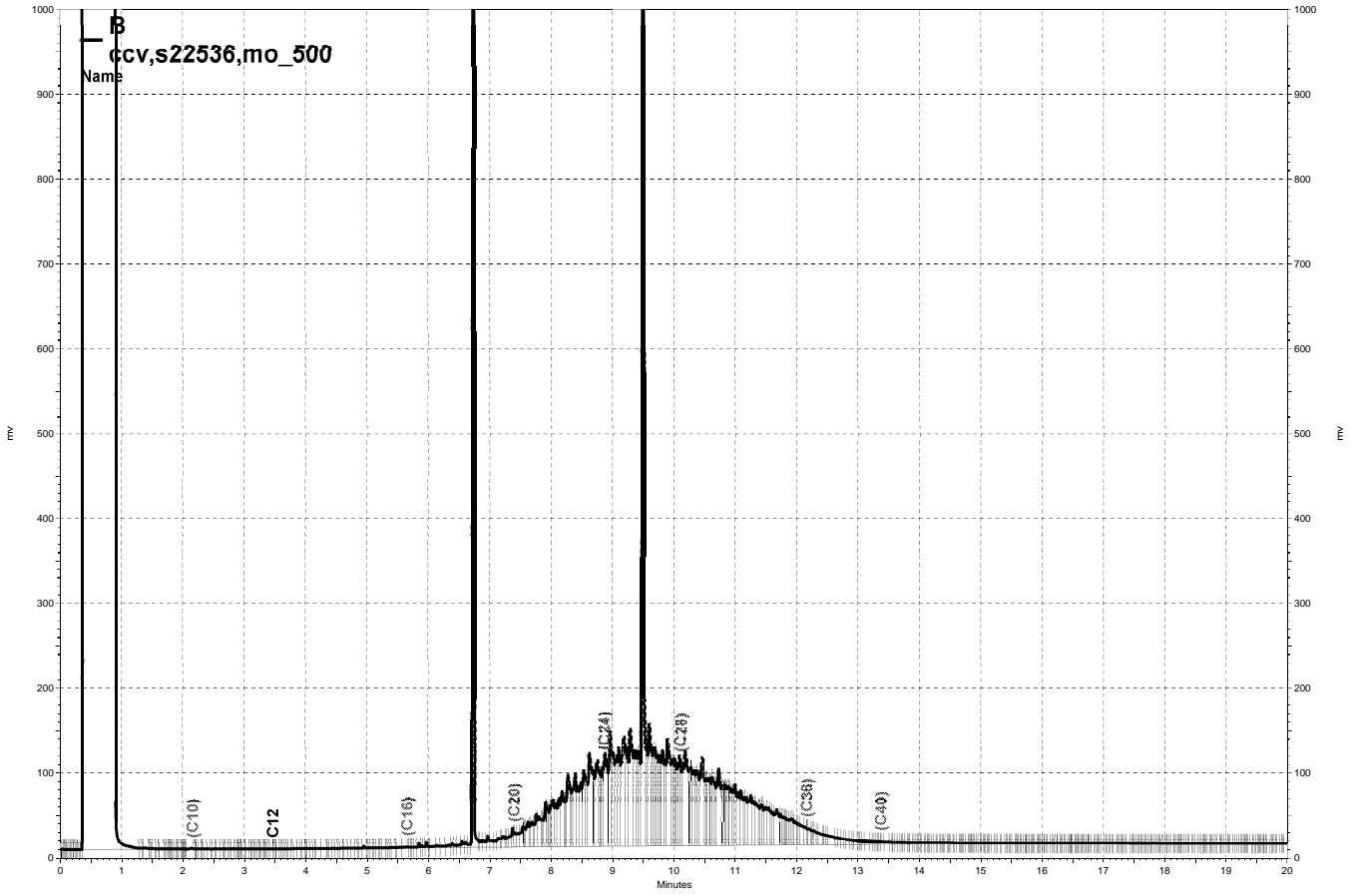
RPD= Relative Percent Difference



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\174b015, B



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\174b004, B



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\174b003, B

Purgeable Organics by GC/MS

Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-BOT-17A-D	Diln Fac:	0.8818
Lab ID:	246341-001	Batch#:	199902
Matrix:	Soil	Sampled:	06/11/13
Units:	ug/Kg	Received:	06/11/13
Basis:	as received	Analyzed:	06/20/13

Analyte	Result	RL
Freon 12	ND b	8.8
tert-Butyl Alcohol (TBA)	ND b	88
Chloromethane	ND b	8.8
Isopropyl Ether (DIPE)	ND b	4.4
Vinyl Chloride	ND b	8.8
Bromomethane	ND b	8.8
Ethyl tert-Butyl Ether (ETBE)	ND b	4.4
Chloroethane	ND b	8.8
Methyl tert-Amyl Ether (TAME)	ND b	4.4
Trichlorofluoromethane	ND b	4.4
Acetone	ND b	18
Freon 113	ND b	4.4
1,1-Dichloroethene	ND b	4.4
Methylene Chloride	ND b	18
Carbon Disulfide	ND b	4.4
MTBE	ND b	4.4
trans-1,2-Dichloroethene	ND b	4.4
Vinyl Acetate	ND b	44
1,1-Dichloroethane	ND b	4.4
2-Butanone	ND b	8.8
cis-1,2-Dichloroethene	ND b	4.4
2,2-Dichloropropane	ND b	4.4
Chloroform	ND b	4.4
Bromochloromethane	ND b	4.4
1,1,1-Trichloroethane	ND b	4.4
1,1-Dichloropropene	ND b	4.4
Carbon Tetrachloride	ND b	4.4
1,2-Dichloroethane	ND b	4.4
Benzene	ND b	4.4
Trichloroethene	ND b	4.4
1,2-Dichloropropane	ND b	4.4
Bromodichloromethane	ND b	4.4
Dibromomethane	ND b	4.4
4-Methyl-2-Pentanone	ND b	8.8
cis-1,3-Dichloropropene	ND b	4.4
Toluene	ND b	4.4
trans-1,3-Dichloropropene	ND b	4.4
1,1,2-Trichloroethane	ND b	4.4
2-Hexanone	ND b	8.8
1,3-Dichloropropane	ND b	4.4
Tetrachloroethene	ND b	4.4
Dibromochloromethane	ND b	4.4
1,2-Dibromoethane	ND b	4.4
Chlorobenzene	ND b	4.4
1,1,1,2-Tetrachloroethane	ND b	4.4
Ethylbenzene	ND b	4.4
m,p-Xylenes	ND b	4.4
o-Xylene	ND b	4.4
Styrene	ND b	4.4
Bromoform	ND b	4.4
Isopropylbenzene	ND b	4.4
1,1,2,2-Tetrachloroethane	ND b	4.4
1,2,3-Trichloropropane	ND b	4.4

b= See narrative
 ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-BOT-17A-D	Diln Fac:	0.8818
Lab ID:	246341-001	Batch#:	199902
Matrix:	Soil	Sampled:	06/11/13
Units:	ug/Kg	Received:	06/11/13
Basis:	as received	Analyzed:	06/20/13

Analyte	Result	RL
Propylbenzene	ND b	4.4
Bromobenzene	ND b	4.4
1,3,5-Trimethylbenzene	ND b	4.4
2-Chlorotoluene	ND b	4.4
4-Chlorotoluene	ND b	4.4
tert-Butylbenzene	ND b	4.4
1,2,4-Trimethylbenzene	ND b	4.4
sec-Butylbenzene	ND b	4.4
para-Isopropyl Toluene	ND b	4.4
1,3-Dichlorobenzene	ND b	4.4
1,4-Dichlorobenzene	ND b	4.4
n-Butylbenzene	ND b	4.4
1,2-Dichlorobenzene	ND b	4.4
1,2-Dibromo-3-Chloropropane	ND b	4.4
1,2,4-Trichlorobenzene	ND b	4.4
Hexachlorobutadiene	ND b	4.4
Naphthalene	ND b	4.4
1,2,3-Trichlorobenzene	ND b	4.4

Surrogate	%REC	Limits
Dibromofluoromethane	103 b	80-124
1,2-Dichloroethane-d4	102 b	80-137
Toluene-d8	109 b	80-120
Bromofluorobenzene	103 b	79-127

b= See narrative
 ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC694480	Batch#:	199902
Matrix:	Soil	Analyzed:	06/20/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC694480	Batch#:	199902
Matrix:	Soil	Analyzed:	06/20/13
Units:	ug/Kg		

Analyte	Result	RL
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	96	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	103	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199902
Units:	ug/Kg	Analyzed:	06/20/13
Diln Fac:	1.000		

Type: BS Lab ID: QC694481

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	87.82	88	53-141
Isopropyl Ether (DIPE)	20.00	21.79	109	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	19.24	96	62-121
Methyl tert-Amyl Ether (TAME)	20.00	19.16	96	66-120
1,1-Dichloroethene	20.00	20.64	103	67-132
Benzene	20.00	22.42	112	77-126
Trichloroethene	20.00	19.95	100	76-127
Toluene	20.00	21.33	107	76-124
Chlorobenzene	20.00	20.26	101	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-124
1,2-Dichloroethane-d4	96	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	94	79-127

Type: BSD Lab ID: QC694482

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	89.34	89	53-141	2	34
Isopropyl Ether (DIPE)	20.00	20.44	102	57-122	6	26
Ethyl tert-Butyl Ether (ETBE)	20.00	18.47	92	62-121	4	28
Methyl tert-Amyl Ether (TAME)	20.00	18.81	94	66-120	2	24
1,1-Dichloroethene	20.00	19.97	100	67-132	3	27
Benzene	20.00	21.12	106	77-126	6	20
Trichloroethene	20.00	18.77	94	76-127	6	22
Toluene	20.00	21.82	109	76-124	2	26
Chlorobenzene	20.00	19.66	98	76-120	3	21

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	93	80-137
Toluene-d8	116	80-120
Bromofluorobenzene	93	79-127

RPD= Relative Percent Difference

Semivolatile Organics by GC/MS SIM

Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	EX1-A-4B-D	Batch#:	200006
Lab ID:	246341-002	Sampled:	06/10/13
Matrix:	Soil	Received:	06/11/13
Units:	ug/Kg	Prepared:	06/24/13
Basis:	as received	Analyzed:	06/24/13
Diln Fac:	2.000		

Analyte	Result	RL
Naphthalene	ND	10
Acenaphthylene	ND	10
Acenaphthene	ND	10
Fluorene	ND	10
Phenanthrene	ND	10
Anthracene	ND	10
Fluoranthene	12	10
Pyrene	12	10
Benzo(a)anthracene	ND	10
Chrysene	ND	10
Benzo(b)fluoranthene	14	10
Benzo(k)fluoranthene	ND	10
Benzo(a)pyrene	ND	10
Indeno(1,2,3-cd)pyrene	ND	10
Dibenz(a,h)anthracene	ND	10
Benzo(g,h,i)perylene	ND	10

Surrogate	%REC	Limits
Nitrobenzene-d5	81	46-120
2-Fluorobiphenyl	80	53-120
Terphenyl-d14	90	53-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report
Semivolatile Organics by GC/MS SIM

Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC694918	Batch#:	200006
Matrix:	Soil	Prepared:	06/24/13
Units:	ug/Kg	Analyzed:	06/24/13

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo(a)anthracene	ND	5.0
Chrysene	ND	5.0
Benzo(b)fluoranthene	ND	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	69	46-120
2-Fluorobiphenyl	77	53-120
Terphenyl-d14	127	53-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC694919	Batch#:	200006
Matrix:	Soil	Prepared:	06/24/13
Units:	ug/Kg	Analyzed:	06/24/13

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.27	27.42	82	47-120
Pyrene	33.27	27.28	82	44-120

Surrogate	%REC	Limits
Nitrobenzene-d5	71	46-120
2-Fluorobiphenyl	78	53-120
Terphenyl-d14	111	53-127

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	200006
MSS Lab ID:	246326-004	Sampled:	06/19/13
Matrix:	Soil	Received:	06/19/13
Units:	ug/Kg	Prepared:	06/24/13
Basis:	as received	Analyzed:	06/24/13
Diln Fac:	1.000		

Type: MS Lab ID: QC694920

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.007	32.96	29.28	89	43-120
Pyrene	7.691	32.96	38.44	93	10-153

Surrogate	%REC	Limits
Nitrobenzene-d5	64	46-120
2-Fluorobiphenyl	78	53-120
Terphenyl-d14	118	53-127

Type: MSD Lab ID: QC694921

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	33.09	45.55	138 *	43-120	43	51
Pyrene	33.09	315.0	929 *	10-153	156 *	71

Surrogate	%REC	Limits
Nitrobenzene-d5	68	46-120
2-Fluorobiphenyl	75	53-120
Terphenyl-d14	114	53-127

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

California LUFT Metals			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Field ID:	EX1-BOT-17A-D	Batch#:	199929
Matrix:	Soil	Sampled:	06/11/13
Units:	mg/Kg	Received:	06/11/13
Basis:	as received	Prepared:	06/20/13
Diln Fac:	1.000	Analyzed:	06/21/13

Type: SAMPLE Lab ID: 246341-001

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	48	0.25
Lead	4.8	0.25
Nickel	53	0.25
Zinc	36	1.0

Type: BLANK Lab ID: QC694588

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	1.9 b	1.0

b= See narrative

ND= Not Detected

RL= Reporting Limit

Batch QC Report

California LUFT Metals			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC694589	Batch#:	199929
Matrix:	Soil	Prepared:	06/20/13
Units:	mg/Kg	Analyzed:	06/21/13

Analyte	Spiked	Result	%REC	Limits
Cadmium	10.00	10.14	101	80-120
Chromium	100.0	96.53	97	80-120
Lead	100.0	95.51	96	80-120
Nickel	25.00	24.75	99	80-120
Zinc	25.00	25.93	104	80-120

Batch QC Report

California LUFT Metals			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	199929
MSS Lab ID:	246143-001	Sampled:	06/13/13
Matrix:	Soil	Received:	06/13/13
Units:	mg/Kg	Prepared:	06/20/13
Basis:	as received	Analyzed:	06/21/13
Diln Fac:	1.000		

Type: MS Lab ID: QC694590

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	1.667	10.00	10.06	84	69-120
Chromium	22.63	100.0	108.7	86	60-122
Lead	45.69	100.0	139.8	94	52-120
Nickel	22.81	25.00	45.31	90	45-134
Zinc	148.8	25.00	174.6	103 NM	38-146

Type: MSD Lab ID: QC694591

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	8.850	9.046	83	69-120	0	23
Chromium	88.50	99.41	87	60-122	1	34
Lead	88.50	116.1	80	52-120	10	51
Nickel	22.12	40.71	81	45-134	4	38
Zinc	22.12	161.8	59 NM	38-146	6	36

NM= Not Meaningful: Sample concentration > 4X spike concentration
 RPD= Relative Percent Difference

Batch QC Report

California LUFT Metals			
Lab #:	246341	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	199929
MSS Lab ID:	246104-001	Sampled:	06/13/13
Matrix:	Soil	Received:	06/13/13
Units:	mg/Kg	Prepared:	06/20/13
Basis:	as received	Analyzed:	06/21/13
Diln Fac:	1.000		

Type: MS Lab ID: QC694592

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	0.2222	9.259	8.407	88	69-120
Chromium	53.48	92.59	133.9	87	60-122
Lead	13.53	92.59	87.00	79	52-120
Nickel	77.54	23.15	95.07	76	45-134
Zinc	77.35	23.15	94.50	74	38-146

Type: MSD Lab ID: QC694593

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	8.929	8.121	88	69-120	0	23
Chromium	89.29	124.3	79	60-122	5	34
Lead	89.29	82.87	78	52-120	2	51
Nickel	22.32	84.26	30 *	45-134	11	38
Zinc	22.32	103.7	118	38-146	10	36

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.

Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 246136
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

Sample ID
BAKER-W

Lab ID
246136-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/21/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 246136
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/13/13
Samples Received: 06/13/13

This data package contains sample and QC results for one water sample, requested for the above referenced project on 06/13/13. The sample was received cold and intact.

Volatile Organics by GC/MS (EPA 624):

No analytical problems were encountered.

Metals (EPA 6010B and EPA 7470A):

No analytical problems were encountered.

Total Cyanide (SM4500CN-E):

No analytical problems were encountered.

Total Oil & Grease (HEM) (EPA 1664A):

No analytical problems were encountered.

Phenolic Compounds (EPA 420.1):

No analytical problems were encountered.

pH (EPA 9040C):

No analytical problems were encountered.

CHAIN OF CUSTODY

ct Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

2323 Fifth Street
 Berkeley, CA 94710

Phone (510) 486-0900
 Fax (510) 486-0532

246136

Page 1 of 1

Chain of Custody # _____

C&T LOGIN # _____

Project No: AWR 13-05 Sampler: Y Bayram
 Project Name: 2250 Telegraph Report To: Steve Michelson
 Project P. O. No: _____ Company: AWR Corp
 EDD Format: Report Level II III IV Telephone: 925-426-1112
 Turnaround Time: RUSH Standard Email: _____


ANALYTICAL REQUEST


Lab No.	Sample ID.	SAMPLING		MATRIX			# of Containers	CHEMICAL PRESERVATIVE							
		Date Collected	Time Collected	Water	Solid			HCl	H2SO4	HNO3	NaOH	None			
	Baker - W	6-13-13	900	X			2								

X	As, Cd, Cr, Cu, Fe, Pb, Hg
X	N, Silver, Zinc
X	EPA 624
X	Cyanide
X	Oil and grease
X	PH + Temperature
X	Phenolic Compounds
	Phenolic Compounds

Notes:
 Fix metals analysis
 w/ HNO₃

SAMPLE RECEIPT
 Intact
 Cold
 On ice
 Ambient

RELINQUISHED BY:

 DATE 6/13/13 TIME: 11:20
 DATE 6/13/13 TIME: 1646
 DATE: _____ TIME: _____

RECEIVED BY:

 DATE 6/13/13 TIME: 11:20
 DATE 6/13/13 TIME: 1646
 DATE 6/13/13 TIME: 1646

3 of 23

Curtis & Tompkins Sample Preservation for 246136

Sample	pH: <2	>9	>12	Other
-001a	[]	[]	[]	_____
b	[]	[]	[]	_____
c	[]	[]	[]	_____
d	[]	[]	[]	_____
e	[]	[]	[]	_____
f	[]	[]	[]	_____
g	[]	[]	[]	_____
h	[]	[]	[]	_____

→ Added HNCs

↳ Baker Lot #000025627

Analyst: MG
 Date: 6/17/13

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 246136 Date Received 6/13/13 Number of coolers 1
 Client AWR CORP Project Q250 TELEGRAPH

Date Opened 6/13/13 By (print) TR (sign) Jina Rankin
 Date Logged in 6/13/13 By (print) mc (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
- Shipping info _____
- 2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____
- 2B. Were custody seals intact upon arrival? _____ YES NO N/A
3. Were custody papers dry and intact when received? YES NO
4. Were custody papers filled out properly (ink, signed, etc)? YES NO
5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO
6. Indicate the packing in cooler: (if other, describe) _____

- Bubble Wrap Foam blocks Bags None
- Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C
 Type of ice used: Wet Blue/Gel None Temp(°C) 1.1
 Samples Received on ice & cold without a temperature blank; temp. taken with IR gun
 Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO
 If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? YES NO
10. Are there any missing / extra samples? YES NO
11. Are samples in the appropriate containers for indicated tests? YES NO
12. Are sample labels present, in good condition and complete? YES NO
13. Do the sample labels agree with custody papers? YES NO
14. Was sufficient amount of sample sent for tests requested? YES NO
15. Are the samples appropriately preserved? YES NO N/A
16. Did you check preservatives for all bottles for each sample? YES NO N/A
17. Did you document your preservative check? YES NO N/A
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A
20. Are bubbles > 6mm absent in VOA samples? YES NO N/A
21. Was the client contacted concerning this sample delivery? _____ YES NO
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS

TD

~~#10 - Did not receive bottle for metals analysis for samp # 001~~
Received & fixed w/ NAs

Curtis & Tompkins Laboratories Analytical Report

Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 624
Project#:	AWR 13-05	Analysis:	EPA 624
Field ID:	BAKER-W	Batch#:	199695
Lab ID:	246136-001	Sampled:	06/13/13
Matrix:	Water	Received:	06/13/13
Units:	ug/L	Analyzed:	06/14/13
Diln Fac:	1.000		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Ethylbenzene	3.2	0.5
m,p-Xylenes	1.4	0.5
o-Xylene	5.9	0.5
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	120	77-134
1,2-Dichloroethane-d4	135	72-140
Toluene-d8	104	80-120
Bromofluorobenzene	107	80-120

Batch QC Report
Curtis & Tompkins Laboratories Analytical Report

Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 624
Project#:	AWR 13-05	Analysis:	EPA 624
Matrix:	Water	Batch#:	199695
Units:	ug/L	Analyzed:	06/14/13
Diln Fac:	1.000		

Type: BS Lab ID: QC693633

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	11.01	88	61-137
Benzene	12.50	11.63	93	78-125
Trichloroethene	12.50	10.54	84	77-122
Toluene	12.50	11.40	91	79-123
Chlorobenzene	12.50	10.99	88	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	108	77-134
1,2-Dichloroethane-d4	124	72-140
Toluene-d8	102	80-120
Bromofluorobenzene	96	80-120

Type: BSD Lab ID: QC693634

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	10.87	87	61-137	1	24
Benzene	12.50	11.97	96	78-125	3	20
Trichloroethene	12.50	11.83	95	77-122	12	20
Toluene	12.50	11.06	88	79-123	3	20
Chlorobenzene	12.50	11.57	93	80-120	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	109	77-134
1,2-Dichloroethane-d4	124	72-140
Toluene-d8	100	80-120
Bromofluorobenzene	99	80-120

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 624
Project#:	AWR 13-05	Analysis:	EPA 624
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC693635	Batch#:	199695
Matrix:	Water	Analyzed:	06/14/13
Units:	ug/L		

Analyte	Result	RL
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
trans-1,2-Dichloroethene	ND	0.5
1,1-Dichloroethane	ND	0.5
Chloroform	ND	0.5
1,1,1-Trichloroethane	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
Tetrachloroethene	ND	0.5
Dibromochloromethane	ND	0.5
Chlorobenzene	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Bromoform	ND	1.0
1,1,2,2-Tetrachloroethane	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	113	77-134
1,2-Dichloroethane-d4	132	72-140
Toluene-d8	101	80-120
Bromofluorobenzene	103	80-120

ND= Not Detected
 RL= Reporting Limit

Metals Analytical Report

Lab #:	246136	Project#:	AWR 13-05
Client:	Applied Water Resources	Location:	2250 Telegraph
Field ID:	BAKER-W	Diln Fac:	1.000
Lab ID:	246136-001	Sampled:	06/13/13
Matrix:	Water	Received:	06/13/13
Units:	ug/L		

Analyte	Result	RL	Batch#	Prepared	Analyzed	Prep	Analysis
Arsenic	6.3	5.0	199870	06/19/13	06/20/13	EPA 3010A	EPA 6010B
Cadmium	ND	5.0	199870	06/19/13	06/20/13	EPA 3010A	EPA 6010B
Chromium	9.0	5.0	199870	06/19/13	06/20/13	EPA 3010A	EPA 6010B
Copper	9.7	5.0	199870	06/19/13	06/20/13	EPA 3010A	EPA 6010B
Iron	630	100	199870	06/19/13	06/20/13	EPA 3010A	EPA 6010B
Lead	23	5.0	199870	06/19/13	06/20/13	EPA 3010A	EPA 6010B
Mercury	ND	0.20	199796	06/18/13	06/18/13	METHOD	EPA 7470A

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Metals Analytical Report			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	METHOD
Project#:	AWR 13-05	Analysis:	EPA 7470A
Analyte:	Mercury	Diln Fac:	1.000
Type:	BLANK	Batch#:	199796
Lab ID:	QC694051	Prepared:	06/18/13
Matrix:	Filtrate	Analyzed:	06/18/13
Units:	ug/L		

Result	RL
ND	0.20

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Metals Analytical Report			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	METHOD
Project#:	AWR 13-05	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	199796
Matrix:	Filtrate	Prepared:	06/18/13
Units:	ug/L	Analyzed:	06/18/13
Diln Fac:	1.000		

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC694052	2.500	2.610	104	80-120		
BSD	QC694053	2.500	2.560	102	80-120	2	20

RPD= Relative Percent Difference

Batch QC Report

Metals Analytical Report			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	METHOD
Project#:	AWR 13-05	Analysis:	EPA 7470A
Analyte:	Mercury	Batch#:	199796
Field ID:	ZZZZZZZZZZ	Sampled:	06/17/13
MSS Lab ID:	246240-001	Received:	06/17/13
Matrix:	Filtrate	Prepared:	06/18/13
Units:	ug/L	Analyzed:	06/18/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC694054	<0.03605	2.500	2.630	105	62-124		
MSD	QC694055		2.500	2.640	106	62-124	0	35

RPD= Relative Percent Difference

Batch QC Report

Metals Analytical Report			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3010A
Project#:	AWR 13-05	Analysis:	EPA 6010B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC694345	Batch#:	199870
Matrix:	Water	Prepared:	06/19/13
Units:	ug/L	Analyzed:	06/20/13

Analyte	Result	RL
Arsenic	ND	5.0
Cadmium	ND	5.0
Chromium	ND	5.0
Copper	ND	5.0
Iron	ND	100
Lead	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Metals Analytical Report			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3010A
Project#:	AWR 13-05	Analysis:	EPA 6010B
Matrix:	Water	Batch#:	199870
Units:	ug/L	Prepared:	06/19/13
Diln Fac:	1.000	Analyzed:	06/20/13

Type: BS Lab ID: QC694346

Analyte	Spiked	Result	%REC	Limits
Arsenic	100.0	95.36	95	78-120
Cadmium	50.00	50.44	101	80-120
Chromium	200.0	183.3	92	80-120
Copper	250.0	236.1	94	77-120
Iron	1,000	948.2	95	77-120
Lead	100.0	92.37	92	78-120

Type: BSD Lab ID: QC694347

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Arsenic	100.0	96.07	96	78-120	1	22
Cadmium	50.00	51.23	102	80-120	2	20
Chromium	200.0	185.5	93	80-120	1	20
Copper	250.0	239.9	96	77-120	2	20
Iron	1,000	953.9	95	77-120	1	24
Lead	100.0	94.57	95	78-120	2	20

RPD= Relative Percent Difference

Batch QC Report

Metals Analytical Report			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3010A
Project#:	AWR 13-05	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	199870
MSS Lab ID:	246281-001	Sampled:	06/18/13
Matrix:	Water	Received:	06/18/13
Units:	ug/L	Prepared:	06/19/13
Diln Fac:	1.000	Analyzed:	06/20/13

Type: MS Lab ID: QC694348

Analyte	MSS Result	Spiked	Result	%REC	Limits
Arsenic	<0.7418	100.0	96.84	97	74-130
Cadmium	<0.2578	50.00	51.32	103	72-121
Chromium	<0.6859	200.0	185.3	93	74-120
Copper	<1.566	250.0	241.2	96	73-121
Iron	6.795	1,000	956.7	95	64-129
Lead	<0.8472	100.0	94.63	95	68-120

Type: MSD Lab ID: QC694349

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Arsenic	100.0	93.80	94	74-130	3	23
Cadmium	50.00	49.78	100	72-121	3	20
Chromium	200.0	179.7	90	74-120	3	20
Copper	250.0	231.6	93	73-121	4	21
Iron	1,000	966.2	96	64-129	1	22
Lead	100.0	91.40	91	68-120	3	24

RPD= Relative Percent Difference

Total Oil & Grease (HEM)			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	METHOD
Project#:	AWR 13-05	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Batch#:	199779
Field ID:	BAKER-W	Sampled:	06/13/13
Matrix:	Water	Received:	06/13/13
Units:	mg/L	Analyzed:	06/17/13

Type	Lab ID	Result	RL	Diln Fac
SAMPLE	246136-001	11.0	4.75	0.9500
BLANK	QC693961	ND	5.00	1.000

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Oil & Grease (HEM)			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	METHOD
Project#:	AWR 13-05	Analysis:	EPA 1664A
Analyte:	Oil & Grease (HEM)	Diln Fac:	1.000
Matrix:	Water	Batch#:	199779
Units:	mg/L	Analyzed:	06/17/13

Type	Lab ID	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC693962	40.00	38.90	97	78-114		
BSD	QC693963	40.00	34.50	86	78-114	12	18

RPD= Relative Percent Difference

Total Cyanide			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	METHOD
Project#:	AWR 13-05	Analysis:	SM4500CN-E
Analyte:	Cyanide	Batch#:	199829
Field ID:	BAKER-W	Sampled:	06/13/13
Matrix:	Water	Received:	06/13/13
Units:	mg/L	Analyzed:	06/19/13
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	246136-001	ND	0.01
BLANK	QC694191	ND	0.01

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Cyanide			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	METHOD
Project#:	AWR 13-05	Analysis:	SM4500CN-E
Analyte:	Cyanide	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	199829
MSS Lab ID:	246234-002	Sampled:	06/17/13
Matrix:	Water	Received:	06/17/13
Units:	mg/L	Analyzed:	06/19/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
MS	QC694192	<0.01000	0.2000	0.1835	92	66-120		
MSD	QC694193		0.2000	0.1916	96	66-120	4	28
LCS	QC694194		0.2000	0.1840	92	71-122		

RPD= Relative Percent Difference

pH			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	METHOD
Project#:	AWR 13-05	Analysis:	EPA 9040C
Analyte:	pH	Diln Fac:	1.000
Field ID:	BAKER-W	Batch#:	199670
Lab ID:	246136-001	Sampled:	06/13/13 09:00
Matrix:	Water	Received:	06/13/13
Units:	SU	Analyzed:	06/13/13 17:35

Result	RL
7.5	1.0

Batch QC Report

pH			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	METHOD
Project#:	AWR 13-05	Analysis:	EPA 9040C
Analyte:	pH	Units:	SU
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
Type:	SDUP	Batch#:	199670
MSS Lab ID:	246119-002	Sampled:	06/13/13 13:00
Lab ID:	QC693539	Received:	06/13/13
Matrix:	Water	Analyzed:	06/13/13 16:02

MSS Result	Result	RL	RPD	Lim
7.540	7.530	1.000	0	20

RL= Reporting Limit

RPD= Relative Percent Difference

Phenolic Compounds			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	METHOD
Project#:	AWR 13-05	Analysis:	EPA 420.1
Analyte:	Phenolic Compounds	Batch#:	199686
Field ID:	BAKER-W	Sampled:	06/13/13
Matrix:	Water	Received:	06/13/13
Units:	mg/L	Analyzed:	06/14/13
Diln Fac:	1.000		

Type	Lab ID	Result	RL
SAMPLE	246136-001	0.065	0.050
BLANK	QC693604	ND	0.050

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Phenolic Compounds			
Lab #:	246136	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	METHOD
Project#:	AWR 13-05	Analysis:	EPA 420.1
Analyte:	Phenolic Compounds	Diln Fac:	1.000
Field ID:	BAKER-W	Batch#:	199686
MSS Lab ID:	246136-001	Sampled:	06/13/13
Matrix:	Water	Received:	06/13/13
Units:	mg/L	Analyzed:	06/14/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
LCS	QC693605		1.000	0.9778	103	75-122		
MS	QC693606	0.06510	1.000	1.105	104	52-142		
MSD	QC693607		1.000	1.120	105	52-142	1	37

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 246061
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
EX1-BOT-17A	246061-001
EX1-BOT-17B	246061-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/19/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 246061
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/11/13
Samples Received: 06/11/13

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 06/11/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

Matrix spikes QC693525, QC693526 (batch 199642) were not reported because the parent sample was reanalyzed in another batch. No other analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.



Curtis & Tompkins Laboratories
ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
In Business Since 1878

CHAIN OF CUSTODY

2323 Fifth Street
 Berkeley, CA 94710

Phone (510) 486-0900
 Fax (510) 486-0532

C&T LOGIN # 246061

Page 1 of 1

Chain of Custody # _____

Project No: AWR 13-05

Project Name: 2250 Telegraph

Project P. O. No: _____

EDD Format: Report Level II III IV

Turnaround Time: RUSH Standard

Sampler: Y Bayram

Report To: Steve Michelson

Company: AWR Corp

Telephone: 925-426-1112

Email: _____

ANALYTICAL REQUEST


TPHg, TPHd, TPH_{me}
 Fuel Oxygenates
 Lead Scavengers
 VOCs
 LUST-5
~~_____~~

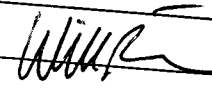
X X X X X

Lab No.	Sample ID.	SAMPLING		MATRIX		# of Containers	CHEMICAL PRESERVATIVE								
		Date Collected	Time Collected	Water	Solid		HCl	H2SO4	HNO3	NaOH	None				
1	Ex1-BOT-17a	6-11-13	1120			6									
2	Ex1-BOT-17b	6-11-13	1125	X		6									

Notes: Silica Gel Cleanup

- SAMPLE RECEIPT**
- Intact
 - Cold
 - On Ice
 - Ambient

RELINQUISHED BY:

 DATE: 6/11/13 TIME: 1720
 DATE: _____ TIME: _____
 DATE: _____ TIME: _____

RECEIVED BY:

 DATE: 6/11/13 TIME: 17:50
 DATE: _____ TIME: _____
 DATE: _____ TIME: _____

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 246061 Date Received 6/11/13 Number of coolers 8
Client AWR Project AWR 13-05

Date Opened 6/11 By (print) M G (sign)
Date Logged in 6/12 By (print) AA (sign)

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet, Blue/Gel, None, Temp(°C)

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO TR

If YES, what time were they transferred to freezer? 1730

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A TR

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Gasoline by GC/FID (5035 Prep)			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	199666
Units:	mg/Kg	Sampled:	06/11/13
Basis:	as received	Received:	06/11/13
Diln Fac:	1.000		

Field ID: EX1-BOT-17A Lab ID: 246061-001
 Type: SAMPLE Analyzed: 06/14/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	64-139

Field ID: EX1-BOT-17B Lab ID: 246061-002
 Type: SAMPLE Analyzed: 06/14/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.19

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	105	64-139

Type: BLANK Analyzed: 06/13/13
 Lab ID: QC693521

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	64-139

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC693520	Batch#:	199666
Matrix:	Soil	Analyzed:	06/13/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.079	108	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	64-139

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	246083-001	Batch#:	199666
Matrix:	Soil	Sampled:	06/10/13
Units:	mg/Kg	Received:	06/12/13
Basis:	as received	Analyzed:	06/13/13

Type: MS Lab ID: QC693522

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.07056	9.346	6.201	66	42-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	64-139

Type: MSD Lab ID: QC693523

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.901	6.395	64	42-120	3	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

RPD= Relative Percent Difference

Total Extractable Hydrocarbons			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	199578
Units:	mg/Kg	Sampled:	06/11/13
Basis:	as received	Received:	06/11/13
Diln Fac:	1.000	Analyzed:	06/12/13

Field ID: EX1-BOT-17A Prepared: 06/12/13
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 246061-001

Analyte	Result	RL
Diesel C10-C24	30 Y	1.0
Motor Oil C24-C36	22	5.0

Surrogate	%REC	Limits
o-Terphenyl	98	62-136

Field ID: EX1-BOT-17B Prepared: 06/12/13
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 246061-002

Analyte	Result	RL
Diesel C10-C24	3.2 Y	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	98	62-136

Type: BLANK Prepared: 06/11/13
 Lab ID: QC693165 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	103	62-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC693166	Batch#:	199578
Matrix:	Soil	Prepared:	06/11/13
Units:	mg/Kg	Analyzed:	06/12/13

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.80	45.14	91	62-130

Surrogate	%REC	Limits
o-Terphenyl	111	62-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	199578
MSS Lab ID:	246039-001	Sampled:	06/11/13
Matrix:	Soil	Received:	06/11/13
Units:	mg/Kg	Prepared:	06/11/13
Basis:	as received	Analyzed:	06/12/13
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC693167

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	31.47	50.12	73.59	84	39-148

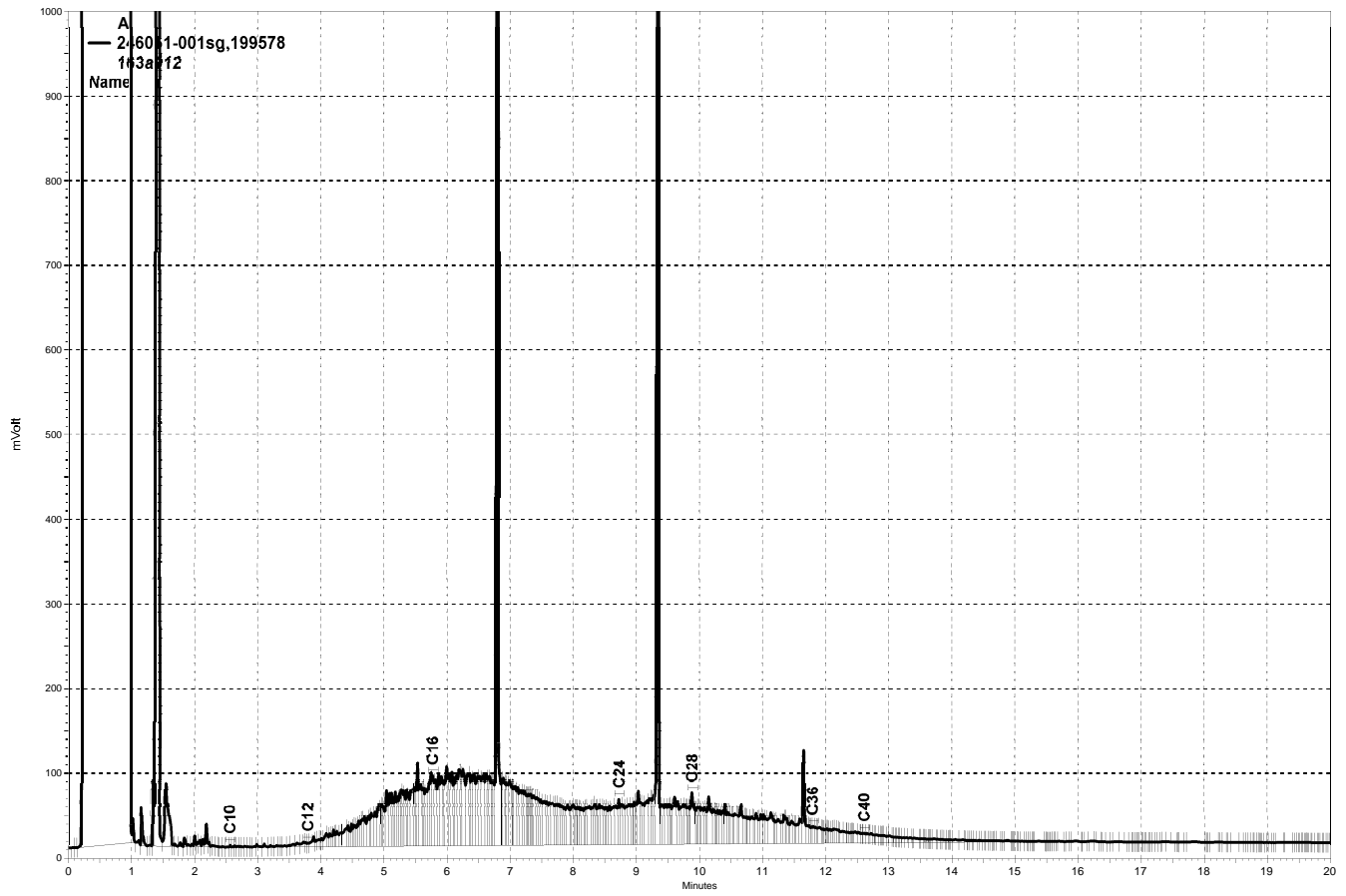
Surrogate	%REC	Limits
o-Terphenyl	123	62-136

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC693168

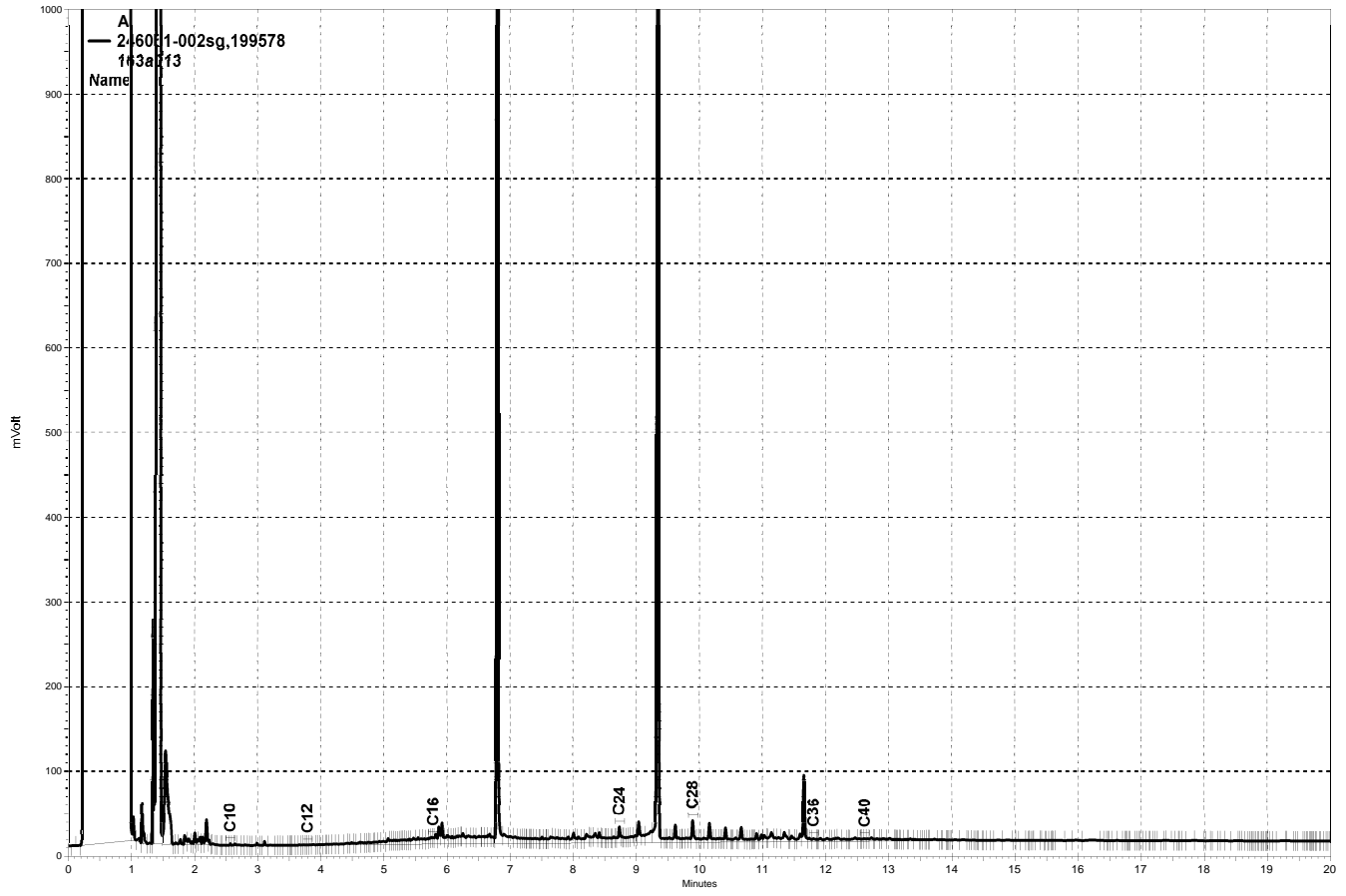
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.00	76.16	89	39-148	4	45

Surrogate	%REC	Limits
o-Terphenyl	114	62-136

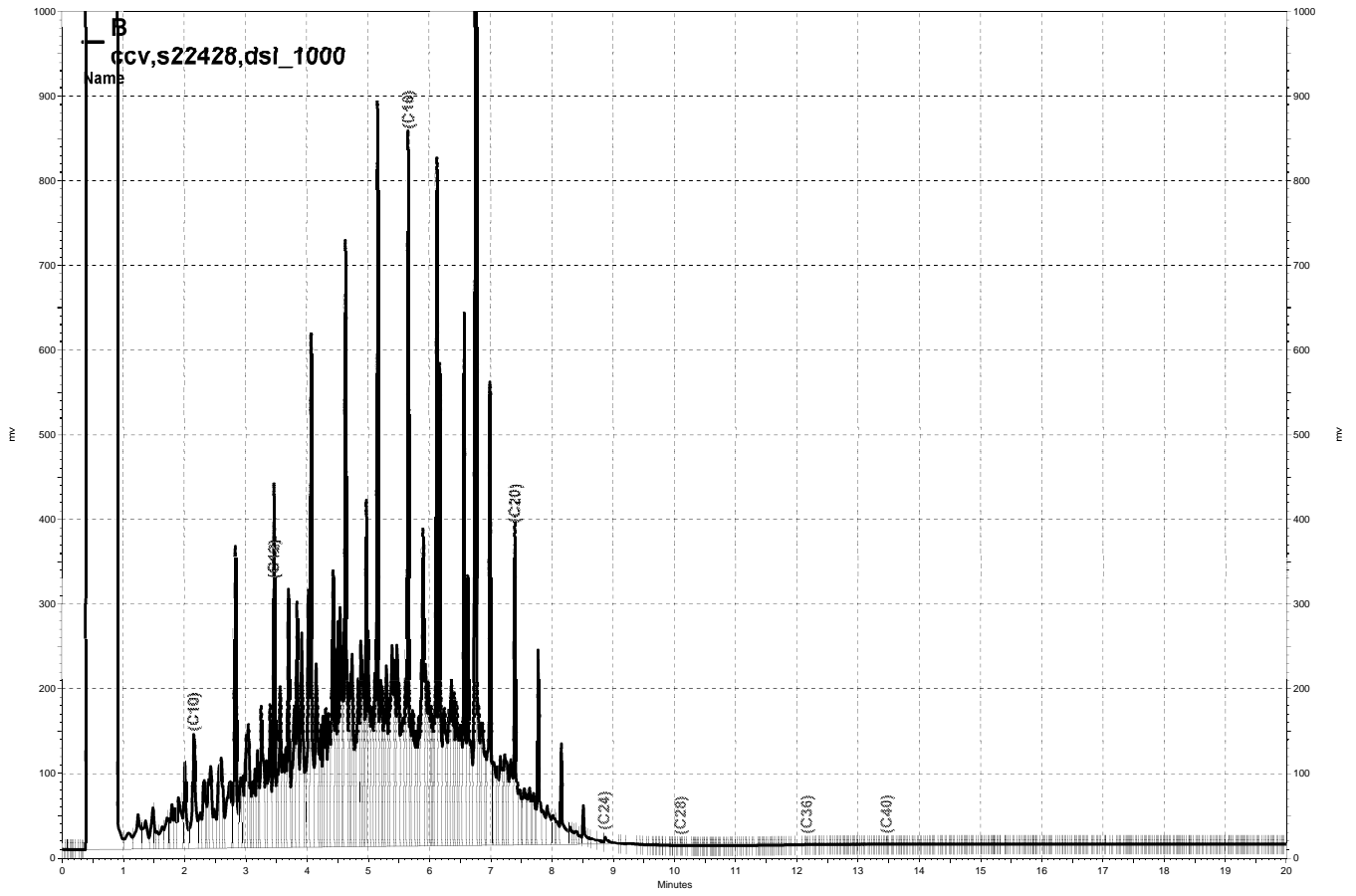
RPD= Relative Percent Difference



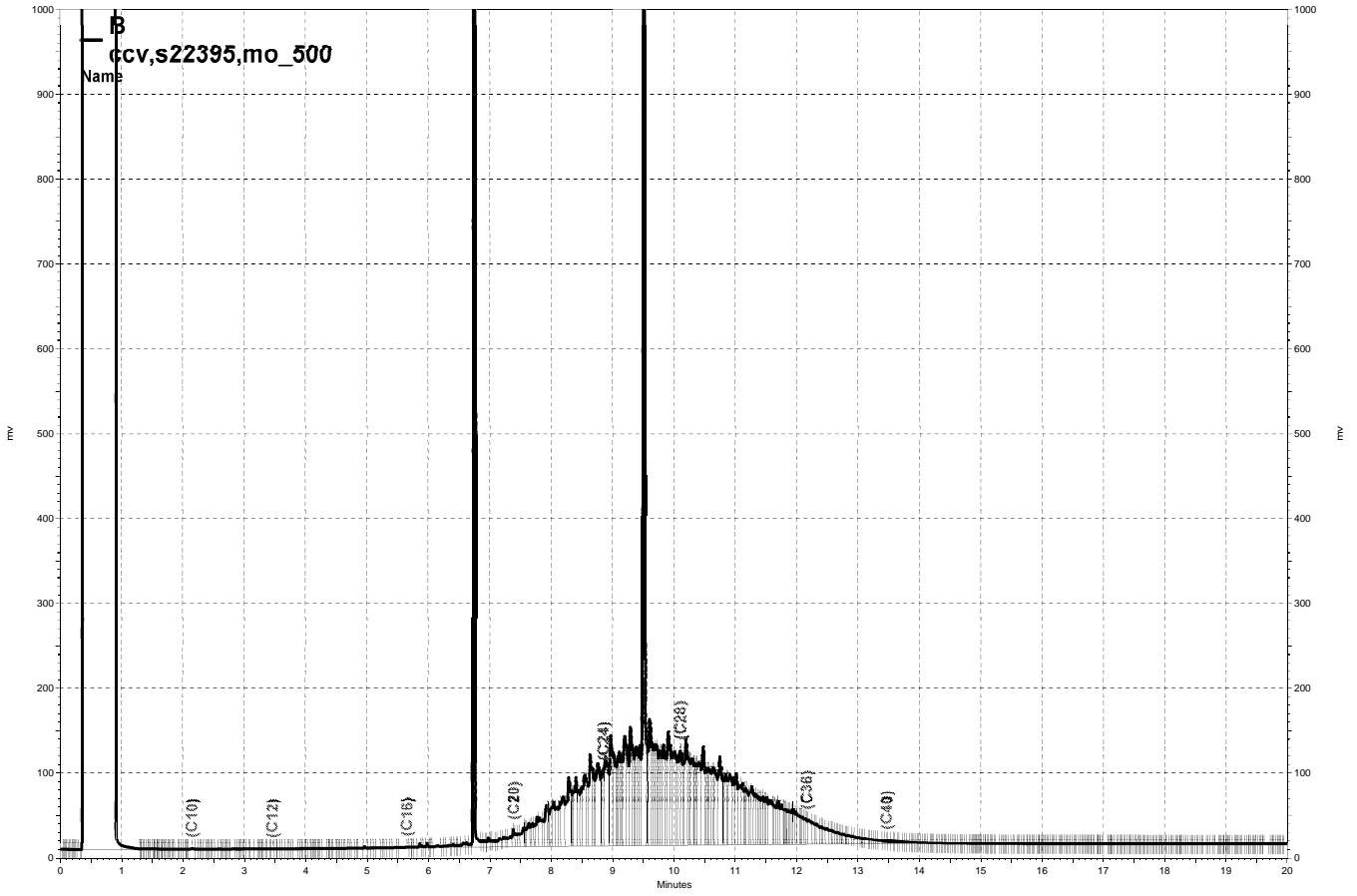
— \\Lims\gdrive\ezchrom\Projects\GC26\Data\163a012, A



— \\Lims\gdrive\ezchrom\Projects\GC26\Data\163a013, A



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\163b004, B



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\163b003, B

Purgeable Organics by GC/MS

Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-BOT-17A	Diln Fac:	0.7634
Lab ID:	246061-001	Batch#:	199642
Matrix:	Soil	Sampled:	06/11/13
Units:	ug/Kg	Received:	06/11/13
Basis:	as received	Analyzed:	06/13/13

Analyte	Result	RL
Freon 12	ND	7.6
tert-Butyl Alcohol (TBA)	ND	76
Chloromethane	ND	7.6
Isopropyl Ether (DIPE)	ND	3.8
Vinyl Chloride	ND	7.6
Bromomethane	ND	7.6
Ethyl tert-Butyl Ether (ETBE)	ND	3.8
Chloroethane	ND	7.6
Methyl tert-Amyl Ether (TAME)	ND	3.8
Trichlorofluoromethane	ND	3.8
Acetone	ND	15
Freon 113	ND	3.8
1,1-Dichloroethene	ND	3.8
Methylene Chloride	ND	15
Carbon Disulfide	ND	3.8
MTBE	ND	3.8
trans-1,2-Dichloroethene	ND	3.8
Vinyl Acetate	ND	38
1,1-Dichloroethane	ND	3.8
2-Butanone	ND	7.6
cis-1,2-Dichloroethene	ND	3.8
2,2-Dichloropropane	ND	3.8
Chloroform	ND	3.8
Bromochloromethane	ND	3.8
1,1,1-Trichloroethane	ND	3.8
1,1-Dichloropropene	ND	3.8
Carbon Tetrachloride	ND	3.8
1,2-Dichloroethane	ND	3.8
Benzene	ND	3.8
Trichloroethene	ND	3.8
1,2-Dichloropropane	ND	3.8
Bromodichloromethane	ND	3.8
Dibromomethane	ND	3.8
4-Methyl-2-Pentanone	ND	7.6
cis-1,3-Dichloropropene	ND	3.8
Toluene	ND	3.8
trans-1,3-Dichloropropene	ND	3.8
1,1,2-Trichloroethane	ND	3.8
2-Hexanone	ND	7.6
1,3-Dichloropropane	ND	3.8
Tetrachloroethene	ND	3.8
Dibromochloromethane	ND	3.8
1,2-Dibromoethane	ND	3.8
Chlorobenzene	ND	3.8
1,1,1,2-Tetrachloroethane	ND	3.8
Ethylbenzene	ND	3.8
m,p-Xylenes	ND	3.8
o-Xylene	ND	3.8
Styrene	ND	3.8
Bromoform	ND	3.8
Isopropylbenzene	ND	3.8
1,1,2,2-Tetrachloroethane	ND	3.8
1,2,3-Trichloropropane	ND	3.8
Propylbenzene	ND	3.8

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-BOT-17A	Diln Fac:	0.7634
Lab ID:	246061-001	Batch#:	199642
Matrix:	Soil	Sampled:	06/11/13
Units:	ug/Kg	Received:	06/11/13
Basis:	as received	Analyzed:	06/13/13

Analyte	Result	RL
Bromobenzene	ND	3.8
1,3,5-Trimethylbenzene	ND	3.8
2-Chlorotoluene	ND	3.8
4-Chlorotoluene	ND	3.8
tert-Butylbenzene	ND	3.8
1,2,4-Trimethylbenzene	ND	3.8
sec-Butylbenzene	ND	3.8
para-Isopropyl Toluene	ND	3.8
1,3-Dichlorobenzene	ND	3.8
1,4-Dichlorobenzene	ND	3.8
n-Butylbenzene	ND	3.8
1,2-Dichlorobenzene	ND	3.8
1,2-Dibromo-3-Chloropropane	ND	3.8
1,2,4-Trichlorobenzene	ND	3.8
Hexachlorobutadiene	ND	3.8
Naphthalene	ND	3.8
1,2,3-Trichlorobenzene	ND	3.8

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-124
1,2-Dichloroethane-d4	87	80-137
Toluene-d8	106	80-120
Bromofluorobenzene	96	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-BOT-17B	Diln Fac:	0.8210
Lab ID:	246061-002	Batch#:	199642
Matrix:	Soil	Sampled:	06/11/13
Units:	ug/Kg	Received:	06/11/13
Basis:	as received	Analyzed:	06/13/13

Analyte	Result	RL
Freon 12	ND	8.2
tert-Butyl Alcohol (TBA)	ND	82
Chloromethane	ND	8.2
Isopropyl Ether (DIPE)	ND	4.1
Vinyl Chloride	ND	8.2
Bromomethane	ND	8.2
Ethyl tert-Butyl Ether (ETBE)	ND	4.1
Chloroethane	ND	8.2
Methyl tert-Amyl Ether (TAME)	ND	4.1
Trichlorofluoromethane	ND	4.1
Acetone	ND	16
Freon 113	ND	4.1
1,1-Dichloroethene	ND	4.1
Methylene Chloride	ND	16
Carbon Disulfide	ND	4.1
MTBE	ND	4.1
trans-1,2-Dichloroethene	ND	4.1
Vinyl Acetate	ND	41
1,1-Dichloroethane	ND	4.1
2-Butanone	ND	8.2
cis-1,2-Dichloroethene	ND	4.1
2,2-Dichloropropane	ND	4.1
Chloroform	ND	4.1
Bromochloromethane	ND	4.1
1,1,1-Trichloroethane	ND	4.1
1,1-Dichloropropene	ND	4.1
Carbon Tetrachloride	ND	4.1
1,2-Dichloroethane	ND	4.1
Benzene	ND	4.1
Trichloroethene	ND	4.1
1,2-Dichloropropane	ND	4.1
Bromodichloromethane	ND	4.1
Dibromomethane	ND	4.1
4-Methyl-2-Pentanone	ND	8.2
cis-1,3-Dichloropropene	ND	4.1
Toluene	ND	4.1
trans-1,3-Dichloropropene	ND	4.1
1,1,2-Trichloroethane	ND	4.1
2-Hexanone	ND	8.2
1,3-Dichloropropane	ND	4.1
Tetrachloroethene	ND	4.1
Dibromochloromethane	ND	4.1
1,2-Dibromoethane	ND	4.1
Chlorobenzene	ND	4.1
1,1,1,2-Tetrachloroethane	ND	4.1
Ethylbenzene	ND	4.1
m,p-Xylenes	ND	4.1
o-Xylene	ND	4.1
Styrene	ND	4.1
Bromoform	ND	4.1
Isopropylbenzene	ND	4.1
1,1,2,2-Tetrachloroethane	ND	4.1
1,2,3-Trichloropropane	ND	4.1
Propylbenzene	ND	4.1

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-BOT-17B	Diln Fac:	0.8210
Lab ID:	246061-002	Batch#:	199642
Matrix:	Soil	Sampled:	06/11/13
Units:	ug/Kg	Received:	06/11/13
Basis:	as received	Analyzed:	06/13/13

Analyte	Result	RL
Bromobenzene	ND	4.1
1,3,5-Trimethylbenzene	ND	4.1
2-Chlorotoluene	ND	4.1
4-Chlorotoluene	ND	4.1
tert-Butylbenzene	ND	4.1
1,2,4-Trimethylbenzene	ND	4.1
sec-Butylbenzene	ND	4.1
para-Isopropyl Toluene	ND	4.1
1,3-Dichlorobenzene	ND	4.1
1,4-Dichlorobenzene	ND	4.1
n-Butylbenzene	ND	4.1
1,2-Dichlorobenzene	ND	4.1
1,2-Dibromo-3-Chloropropane	ND	4.1
1,2,4-Trichlorobenzene	ND	4.1
Hexachlorobutadiene	ND	4.1
Naphthalene	ND	4.1
1,2,3-Trichlorobenzene	ND	4.1

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-124
1,2-Dichloroethane-d4	91	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	98	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC693431	Batch#:	199642
Matrix:	Soil	Analyzed:	06/13/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC693431	Batch#:	199642
Matrix:	Soil	Analyzed:	06/13/13
Units:	ug/Kg		

Analyte	Result	RL
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	88	80-137
Toluene-d8	110	80-120
Bromofluorobenzene	97	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199642
Units:	ug/Kg	Analyzed:	06/13/13
Diln Fac:	1.000		

Type: BS Lab ID: QC693432

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	80.70	81	53-141
Isopropyl Ether (DIPE)	20.00	19.79	99	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	17.66	88	62-121
Methyl tert-Amyl Ether (TAME)	20.00	18.43	92	66-120
1,1-Dichloroethene	20.00	18.72	94	67-132
Benzene	20.00	23.13	116	77-126
Trichloroethene	20.00	21.96	110	76-127
Toluene	20.00	22.78	114	76-124
Chlorobenzene	20.00	23.86	119	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	91	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	96	79-127

Type: BSD Lab ID: QC693433

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	72.50	73	53-141	11	34
Isopropyl Ether (DIPE)	20.00	18.44	92	57-122	7	26
Ethyl tert-Butyl Ether (ETBE)	20.00	17.37	87	62-121	2	28
Methyl tert-Amyl Ether (TAME)	20.00	16.99	85	66-120	8	24
1,1-Dichloroethene	20.00	18.30	92	67-132	2	27
Benzene	20.00	22.18	111	77-126	4	20
Trichloroethene	20.00	20.49	102	76-127	7	22
Toluene	20.00	22.12	111	76-124	3	26
Chlorobenzene	20.00	21.84	109	76-120	9	21

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	90	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	93	79-127

RPD= Relative Percent Difference

California LUFT Metals			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Matrix:	Soil	Sampled:	06/11/13
Units:	mg/Kg	Received:	06/11/13
Basis:	as received	Prepared:	06/14/13
Diln Fac:	1.000	Analyzed:	06/17/13
Batch#:	199719		

Field ID: EX1-BOT-17A Lab ID: 246061-001
 Type: SAMPLE

Analyte	Result	RL
Cadmium	0.48	0.25
Chromium	48	0.25
Lead	5.7	0.25
Nickel	58	0.25
Zinc	36	0.98

Field ID: EX1-BOT-17B Lab ID: 246061-002
 Type: SAMPLE

Analyte	Result	RL
Cadmium	0.55	0.25
Chromium	45	0.25
Lead	6.5	0.25
Nickel	66	0.25
Zinc	35	1.0

Type: BLANK Lab ID: QC693741

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	ND	1.0

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California LUFT Metals			
Lab #:	246061	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	199719
MSS Lab ID:	246058-001	Sampled:	06/11/13
Matrix:	Soil	Received:	06/11/13
Units:	mg/Kg	Prepared:	06/14/13
Basis:	as received	Analyzed:	06/17/13
Diln Fac:	1.000		

Type: MS Lab ID: QC693744

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	0.02993	9.804	9.541	97	69-120
Chromium	10.45	98.04	102.6	94	60-122
Lead	2.737	98.04	90.57	90	52-120
Nickel	12.42	24.51	36.00	96	45-134
Zinc	16.35	24.51	39.72	95	38-146

Type: MSD Lab ID: QC693745

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	9.804	9.537	97	69-120	0	23
Chromium	98.04	102.7	94	60-122	0	34
Lead	98.04	90.65	90	52-120	0	51
Nickel	24.51	35.53	94	45-134	1	38
Zinc	24.51	39.36	94	38-146	1	36

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.

Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 246033
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

Sample ID
EX1-A-4B

Lab ID
246033-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/18/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 246033
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/11/13
Samples Received: 06/11/13

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 06/11/13. The sample was received cold and intact.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

No analytical problems were encountered.

COOLER RECEIPT CHECKLIST



Login # 246033 Date Received 6/11/13 Number of coolers 1
Client AWR Project 2250 Telegraph
Date Opened 6/11/13 By (print) AS (sign) [Signature]
Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Cloth material, Foam blocks, Cardboard, Bags, Styrofoam, None, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) 1.3

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Semivolatile Organics by GC/MS SIM

Lab #:	246033	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	EX1-A-4B	Batch#:	199587
Lab ID:	246033-001	Sampled:	06/10/13
Matrix:	Soil	Received:	06/11/13
Units:	ug/Kg	Prepared:	06/11/13
Basis:	as received	Analyzed:	06/12/13
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	6.2	5.0
Anthracene	ND	5.0
Fluoranthene	12	5.0
Pyrene	16	5.0
Benzo(a)anthracene	11	5.0
Chrysene	11	5.0
Benzo(b)fluoranthene	18	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	12	5.0
Indeno(1,2,3-cd)pyrene	6.7	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	7.8	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	56	46-120
2-Fluorobiphenyl	55	53-120
Terphenyl-d14	76	53-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report
Semivolatile Organics by GC/MS SIM

Lab #:	246033	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC693205	Batch#:	199587
Matrix:	Soil	Prepared:	06/11/13
Units:	ug/Kg	Analyzed:	06/12/13

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo(a)anthracene	ND	5.0
Chrysene	ND	5.0
Benzo(b)fluoranthene	ND	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	68	46-120
2-Fluorobiphenyl	66	53-120
Terphenyl-d14	112	53-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	246033	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC693206	Batch#:	199587
Matrix:	Soil	Prepared:	06/11/13
Units:	ug/Kg	Analyzed:	06/12/13

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.56	24.36	73	47-120
Pyrene	33.56	31.20	93	44-120

Surrogate	%REC	Limits
Nitrobenzene-d5	84	46-120
2-Fluorobiphenyl	75	53-120
Terphenyl-d14	114	53-127

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	246033	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	199587
MSS Lab ID:	245991-021	Sampled:	06/10/13
Matrix:	Soil	Received:	06/10/13
Units:	ug/Kg	Prepared:	06/11/13
Basis:	as received	Analyzed:	06/12/13
Diln Fac:	1.000		

Type: MS Lab ID: QC693207

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.007	33.61	27.56	82	43-120
Pyrene	14.54	33.61	43.09	85	10-153

Surrogate	%REC	Limits
Nitrobenzene-d5	87	46-120
2-Fluorobiphenyl	82	53-120
Terphenyl-d14	98	53-127

Type: MSD Lab ID: QC693208

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	32.96	30.72	93	43-120	13	51
Pyrene	32.96	50.71	110	10-153	18	71

Surrogate	%REC	Limits
Nitrobenzene-d5	106	46-120
2-Fluorobiphenyl	92	53-120
Terphenyl-d14	109	53-127

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.

Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 246027
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

Sample ID
4PT-COMPOSITE

Lab ID
246027-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/13/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 246027
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/11/13
Samples Received: 06/11/13

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 06/11/13. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

High recoveries were observed for trichloroethene in the MS/MSD for batch 199550; the parent sample was not a project sample, the BS/BSD were within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated sample. Low surrogate recoveries were observed for dibromofluoromethane in the MS/MSD for batch 199550; the parent sample was not a project sample. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

No analytical problems were encountered.

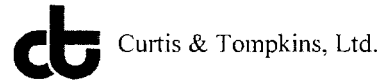
PCBs (EPA 8082):

All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

Metals (EPA 6010B):

Zinc was detected above the RL in the method blank for batch 199582; this analyte was detected in the sample at a level at least 10 times that of the blank. No other analytical problems were encountered.

COOLER RECEIPT CHECKLIST



Login # 246027 Date Received 6/11/13 Number of coolers 1
 Client AWR Project AWR 13-05

Date Opened 6/11/13 By (print) MG (sign) [Signature]
 Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES NO
 Shipping info _____

2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____

2B. Were custody seals intact upon arrival? _____ YES NO N/A

3. Were custody papers dry and intact when received? _____ YES NO

4. Were custody papers filled out properly (ink, signed, etc)? _____ YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe) _____

- Bubble Wrap Foam blocks Bags None
- Cloth material Cardboard Styrofoam Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) 1-3

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES NO

If YES, what time were they transferred to freezer? _____

9. Did all bottles arrive unbroken/unopened? _____ YES NO

10. Are there any missing / extra samples? _____ YES NO

11. Are samples in the appropriate containers for indicated tests? _____ YES NO

12. Are sample labels present, in good condition and complete? _____ YES NO

13. Do the sample labels agree with custody papers? _____ YES NO

14. Was sufficient amount of sample sent for tests requested? _____ YES NO

15. Are the samples appropriately preserved? _____ YES NO N/A

16. Did you check preservatives for all bottles for each sample? _____ YES NO N/A

17. Did you document your preservative check? _____ YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? _____ YES NO N/A

21. Was the client contacted concerning this sample delivery? _____ YES NO

If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Total Volatile Hydrocarbons			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	4PT-COMPOSITE	Batch#:	199572
Matrix:	Soil	Sampled:	06/10/13
Units:	mg/Kg	Received:	06/11/13
Basis:	as received	Analyzed:	06/11/13
Diln Fac:	1.000		

Type: SAMPLE Lab ID: 246027-001

Analyte	Result	RL
Gasoline C7-C12	1.7 Y	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	64-139

Type: BLANK Lab ID: QC693132

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-139

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC693131	Batch#:	199572
Matrix:	Soil	Analyzed:	06/11/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9085	91	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-139

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	4PT-COMPOSITE	Diln Fac:	1.000
MSS Lab ID:	246027-001	Batch#:	199572
Matrix:	Soil	Sampled:	06/10/13
Units:	mg/Kg	Received:	06/11/13
Basis:	as received	Analyzed:	06/11/13

Type: MS Lab ID: QC693154

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.652	10.20	8.460	67	42-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	64-139

Type: MSD Lab ID: QC693155

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.804	7.963	64	42-120	3	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

RPD= Relative Percent Difference

Total Extractable Hydrocarbons			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	4PT-COMPOSITE	Sampled:	06/10/13
Matrix:	Soil	Received:	06/11/13
Units:	mg/Kg	Prepared:	06/11/13
Basis:	as received	Analyzed:	06/12/13
Batch#:	199578		

Type: SAMPLE Diln Fac: 5.000
 Lab ID: 246027-001 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	250	5.0
Motor Oil C24-C36	620	25

Surrogate	%REC	Limits
o-Terphenyl	130	62-136

Type: BLANK Diln Fac: 1.000
 Lab ID: QC693165 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	103	62-136

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC693166	Batch#:	199578
Matrix:	Soil	Prepared:	06/11/13
Units:	mg/Kg	Analyzed:	06/12/13

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.80	45.14	91	62-130

Surrogate	%REC	Limits
o-Terphenyl	111	62-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	199578
MSS Lab ID:	246039-001	Sampled:	06/11/13
Matrix:	Soil	Received:	06/11/13
Units:	mg/Kg	Prepared:	06/11/13
Basis:	as received	Analyzed:	06/12/13
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC693167

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	31.47	50.12	73.59	84	39-148

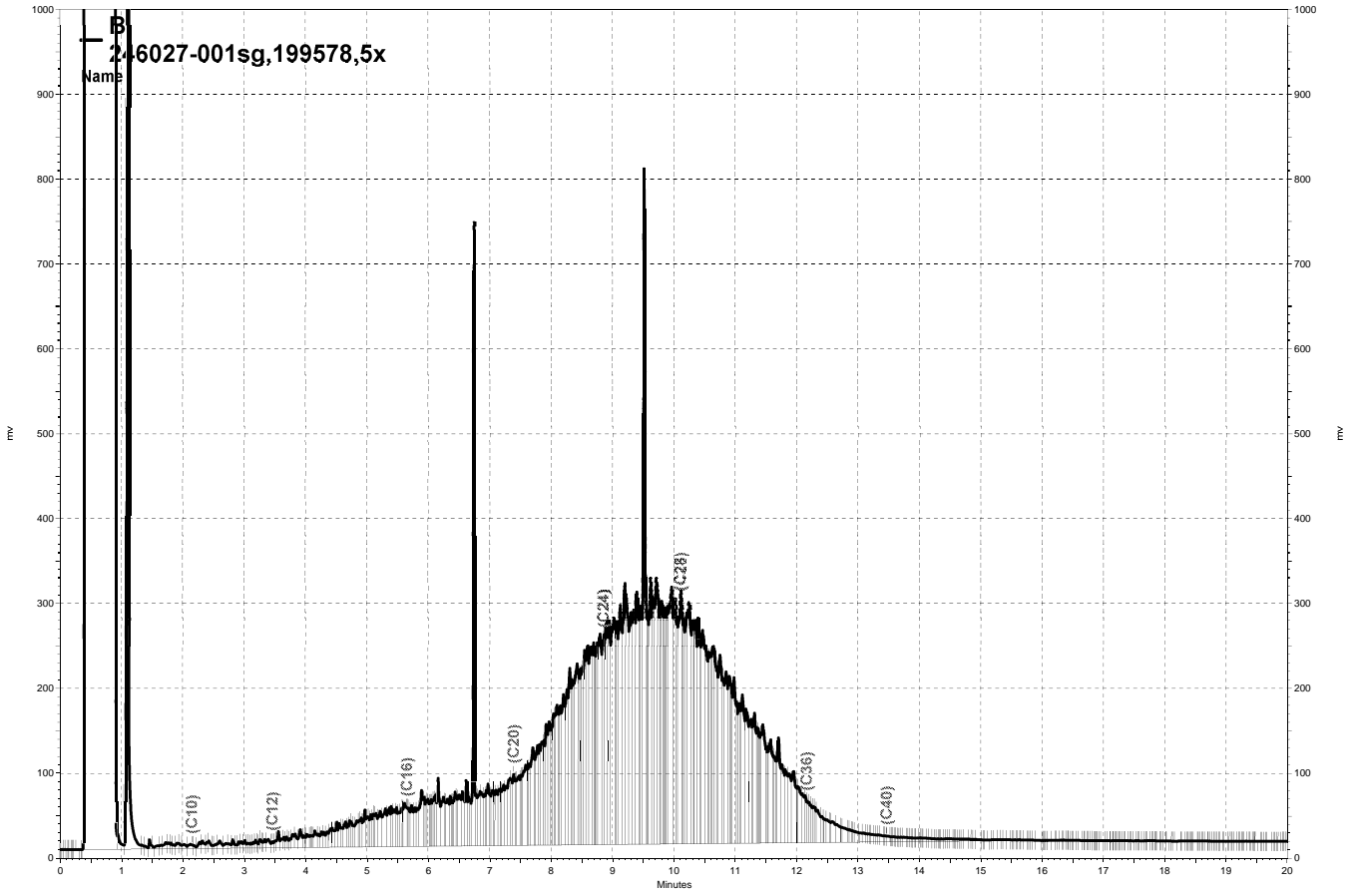
Surrogate	%REC	Limits
o-Terphenyl	123	62-136

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC693168

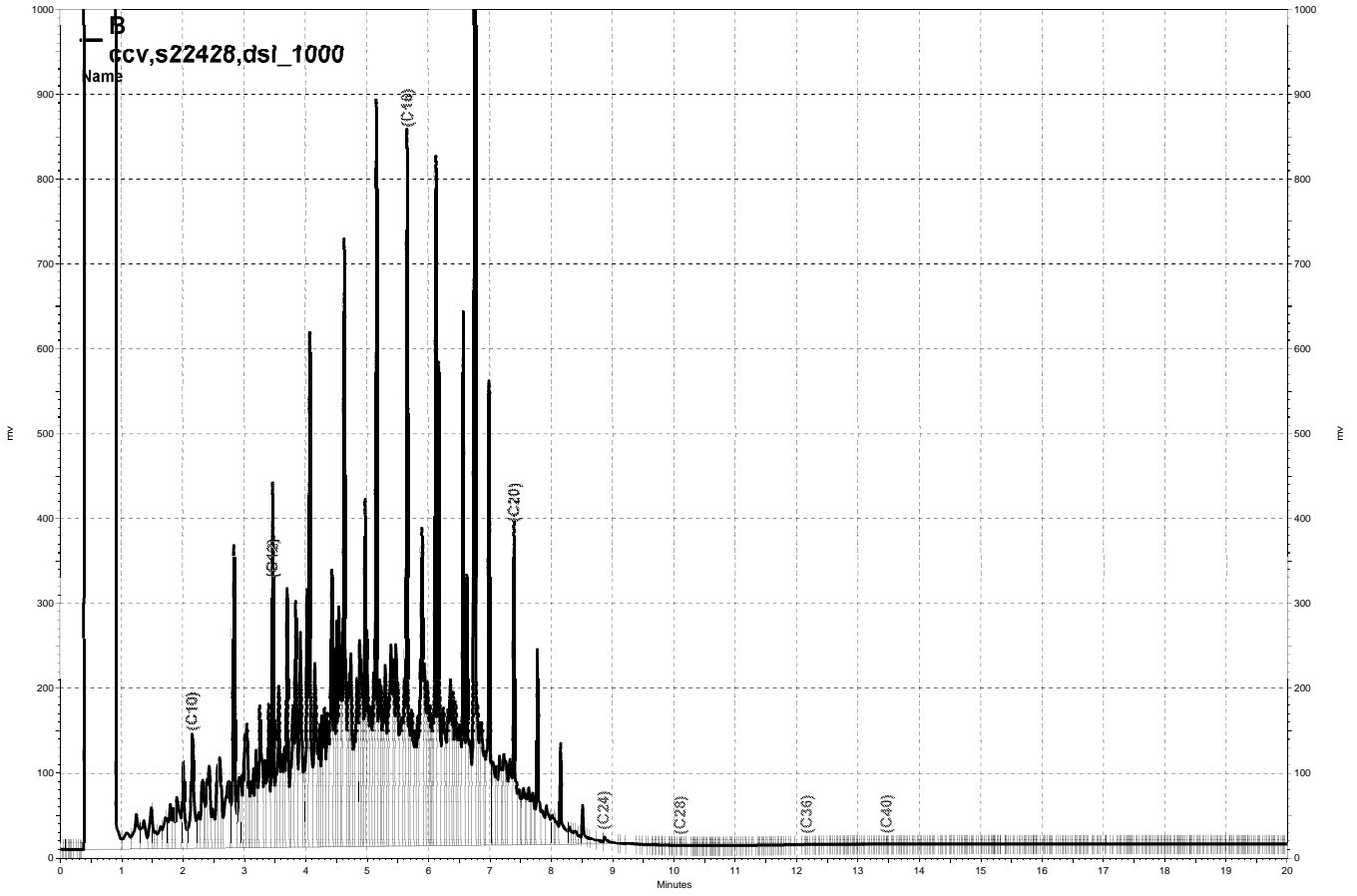
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.00	76.16	89	39-148	4	45

Surrogate	%REC	Limits
o-Terphenyl	114	62-136

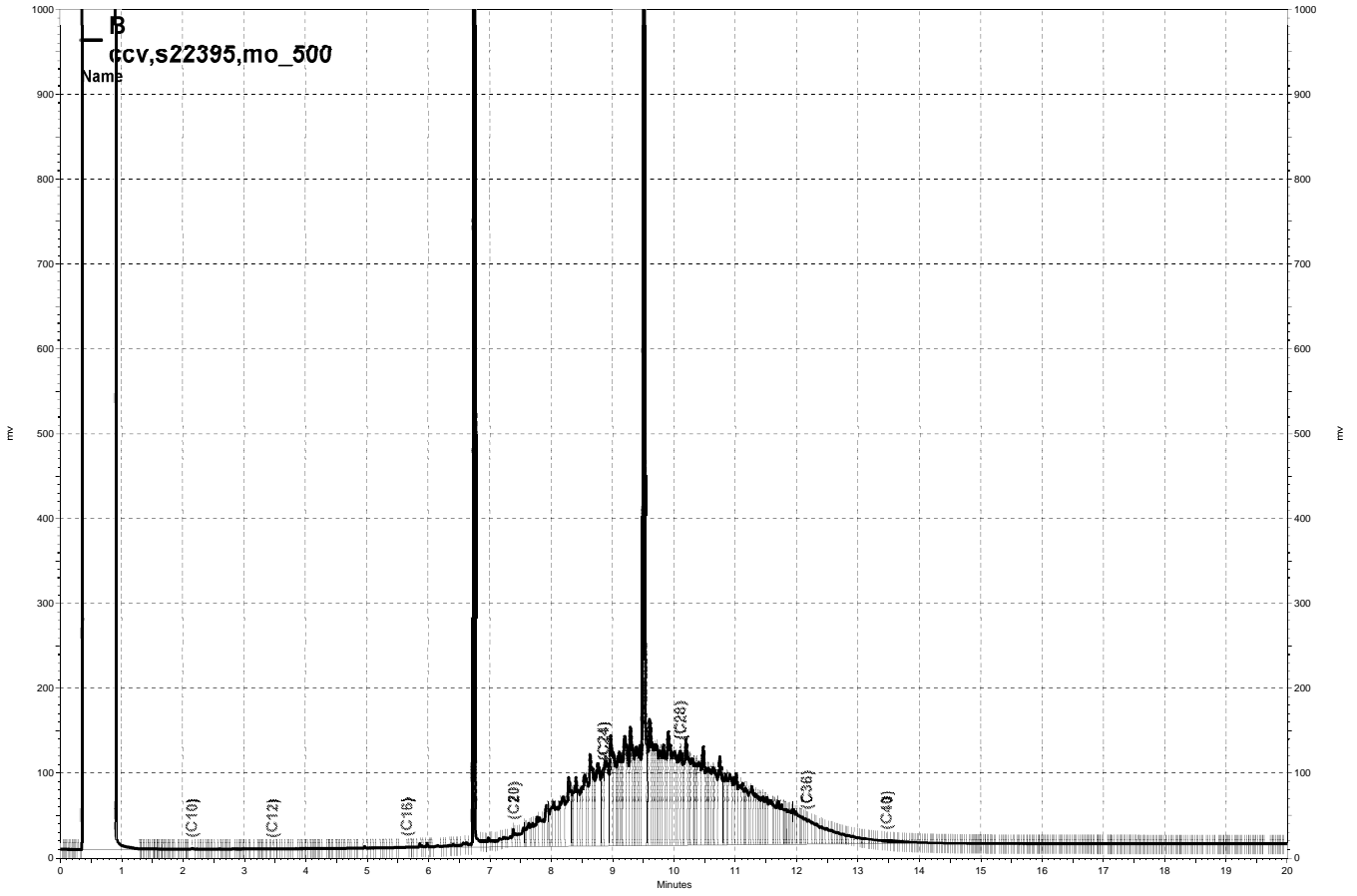
RPD= Relative Percent Difference



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\163b012, B



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\163b004, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\163b003, B

Purgeable Organics by GC/MS			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	4PT-COMPOSITE	Diln Fac:	0.9328
Lab ID:	246027-001	Batch#:	199550
Matrix:	Soil	Sampled:	06/10/13
Units:	ug/Kg	Received:	06/11/13
Basis:	as received	Analyzed:	06/11/13

Analyte	Result	RL
Freon 12	ND	9.3
tert-Butyl Alcohol (TBA)	ND	93
Chloromethane	ND	9.3
Isopropyl Ether (DIPE)	ND	4.7
Vinyl Chloride	ND	9.3
Bromomethane	ND	9.3
Ethyl tert-Butyl Ether (ETBE)	ND	4.7
Chloroethane	ND	9.3
Methyl tert-Amyl Ether (TAME)	ND	4.7
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.3
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.3
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.3
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	4PT-COMPOSITE	Diln Fac:	0.9328
Lab ID:	246027-001	Batch#:	199550
Matrix:	Soil	Sampled:	06/10/13
Units:	ug/Kg	Received:	06/11/13
Basis:	as received	Analyzed:	06/11/13

Analyte	Result	RL
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-124
1,2-Dichloroethane-d4	92	80-137
Toluene-d8	106	80-120
Bromofluorobenzene	96	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC693044	Batch#:	199550
Matrix:	Soil	Analyzed:	06/11/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC693044	Batch#:	199550
Matrix:	Soil	Analyzed:	06/11/13
Units:	ug/Kg		

Analyte	Result	RL
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	97	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199550
Units:	ug/Kg	Analyzed:	06/11/13
Diln Fac:	1.000		

Type: BS Lab ID: QC693045

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	79.61	80	53-141
Isopropyl Ether (DIPE)	20.00	18.60	93	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	17.56	88	62-121
Methyl tert-Amyl Ether (TAME)	20.00	17.68	88	66-120
1,1-Dichloroethene	20.00	18.86	94	67-132
Benzene	20.00	21.63	108	77-126
Trichloroethene	20.00	20.98	105	76-127
Toluene	20.00	21.35	107	76-124
Chlorobenzene	20.00	22.64	113	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	84	80-137
Toluene-d8	106	80-120
Bromofluorobenzene	92	79-127

Type: BSD Lab ID: QC693046

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	80.91	81	53-141	2	34
Isopropyl Ether (DIPE)	20.00	15.12	76	57-122	21	26
Ethyl tert-Butyl Ether (ETBE)	20.00	17.80	89	62-121	1	28
Methyl tert-Amyl Ether (TAME)	20.00	17.34	87	66-120	2	24
1,1-Dichloroethene	20.00	20.84	104	67-132	10	27
Benzene	20.00	20.86	104	77-126	4	20
Trichloroethene	20.00	20.39	102	76-127	3	22
Toluene	20.00	21.21	106	76-124	1	26
Chlorobenzene	20.00	21.93	110	76-120	3	21

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-124
1,2-Dichloroethane-d4	86	80-137
Toluene-d8	108	80-120
Bromofluorobenzene	92	79-127

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	199550
MSS Lab ID:	245917-008	Sampled:	06/05/13
Matrix:	Soil	Received:	06/06/13
Units:	ug/Kg	Analyzed:	06/11/13
Basis:	as received		

Type: MS Diln Fac: 0.9158
 Lab ID: QC693135

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<13.04	228.9	120.9	53	42-135
Isopropyl Ether (DIPE)	<0.8565	45.79	27.25	60	45-120
Ethyl tert-Butyl Ether (ETBE)	<0.7212	45.79	25.98	57	49-120
Methyl tert-Amyl Ether (TAME)	<0.5602	45.79	25.65	56	50-120
1,1-Dichloroethene	<0.9249	45.79	42.48	93	52-132
Benzene	<0.8881	45.79	36.09	79	54-121
Trichloroethene	<0.8220	45.79	68.06	149 *	46-138
Toluene	<0.7001	45.79	36.41	80	47-120
Chlorobenzene	<0.6753	45.79	34.43	75	41-120

Surrogate	%REC	Limits
Dibromofluoromethane	18 *	80-124
1,2-Dichloroethane-d4	87	80-137
Toluene-d8	107	80-120
Bromofluorobenzene	94	79-127

Type: MSD Diln Fac: 0.9242
 Lab ID: QC693136

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	231.1	123.3	53	42-135	1	53
Isopropyl Ether (DIPE)	46.21	26.34	57	45-120	4	45
Ethyl tert-Butyl Ether (ETBE)	46.21	24.66	53	49-120	6	46
Methyl tert-Amyl Ether (TAME)	46.21	23.73	51	50-120	9	43
1,1-Dichloroethene	46.21	53.35	115	52-132	22	46
Benzene	46.21	33.96	73	54-121	7	43
Trichloroethene	46.21	65.60	142 *	46-138	5	50
Toluene	46.21	34.79	75	47-120	5	53
Chlorobenzene	46.21	32.65	71	41-120	6	50

Surrogate	%REC	Limits
Dibromofluoromethane	17 *	80-124
1,2-Dichloroethane-d4	86	80-137
Toluene-d8	105	80-120
Bromofluorobenzene	94	79-127

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Semivolatile Organics by GC/MS SIM

Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	4PT-COMPOSITE	Batch#:	199587
Lab ID:	246027-001	Sampled:	06/10/13
Matrix:	Soil	Received:	06/11/13
Units:	ug/Kg	Prepared:	06/11/13
Basis:	as received	Analyzed:	06/12/13
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	17	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	22	5.0
Phenanthrene	22	5.0
Anthracene	18	5.0
Fluoranthene	56	5.0
Pyrene	68	5.0
Benzo(a)anthracene	45	5.0
Chrysene	34	5.0
Benzo(b)fluoranthene	38	5.0
Benzo(k)fluoranthene	12	5.0
Benzo(a)pyrene	24	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	9.2	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	93	46-120
2-Fluorobiphenyl	85	53-120
Terphenyl-d14	119	53-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report
Semivolatile Organics by GC/MS SIM

Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC693205	Batch#:	199587
Matrix:	Soil	Prepared:	06/11/13
Units:	ug/Kg	Analyzed:	06/12/13

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo(a)anthracene	ND	5.0
Chrysene	ND	5.0
Benzo(b)fluoranthene	ND	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	68	46-120
2-Fluorobiphenyl	66	53-120
Terphenyl-d14	112	53-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC693206	Batch#:	199587
Matrix:	Soil	Prepared:	06/11/13
Units:	ug/Kg	Analyzed:	06/12/13

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.56	24.36	73	47-120
Pyrene	33.56	31.20	93	44-120

Surrogate	%REC	Limits
Nitrobenzene-d5	84	46-120
2-Fluorobiphenyl	75	53-120
Terphenyl-d14	114	53-127

Batch QC Report

Semivolatile Organics by GC/MS SIM			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	ZZZZZZZZZZ	Batch#:	199587
MSS Lab ID:	245991-021	Sampled:	06/10/13
Matrix:	Soil	Received:	06/10/13
Units:	ug/Kg	Prepared:	06/11/13
Basis:	as received	Analyzed:	06/12/13
Diln Fac:	1.000		

Type: MS Lab ID: QC693207

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<1.007	33.61	27.56	82	43-120
Pyrene	14.54	33.61	43.09	85	10-153

Surrogate	%REC	Limits
Nitrobenzene-d5	87	46-120
2-Fluorobiphenyl	82	53-120
Terphenyl-d14	98	53-127

Type: MSD Lab ID: QC693208

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	32.96	30.72	93	43-120	13	51
Pyrene	32.96	50.71	110	10-153	18	71

Surrogate	%REC	Limits
Nitrobenzene-d5	106	46-120
2-Fluorobiphenyl	92	53-120
Terphenyl-d14	109	53-127

RPD= Relative Percent Difference

Polychlorinated Biphenyls (PCBs)

Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8082
Field ID:	4PT-COMPOSITE	Batch#:	199580
Matrix:	Soil	Sampled:	06/10/13
Units:	ug/Kg	Received:	06/11/13
Basis:	as received	Prepared:	06/11/13
Diln Fac:	1.000	Analyzed:	06/12/13

Type: SAMPLE Lab ID: 246027-001

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	124	66-142
Decachlorobiphenyl	92	43-139

Type: BLANK Lab ID: QC693172

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	127	66-142
Decachlorobiphenyl	77	43-139

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC693173	Batch#:	199580
Matrix:	Soil	Prepared:	06/11/13
Units:	ug/Kg	Analyzed:	06/12/13

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	166.3	187.1	113	64-143
Aroclor-1260	166.3	183.3	110	58-146

Surrogate	%REC	Limits
TCMX	122	66-142
Decachlorobiphenyl	95	43-139

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	199580
MSS Lab ID:	245912-001	Sampled:	06/05/13
Matrix:	Miscell.	Received:	06/06/13
Units:	ug/Kg	Prepared:	06/11/13
Basis:	as received	Analyzed:	06/12/13
Diln Fac:	5.000		

Type: MS Lab ID: QC693174

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<8.807	168.3	219.9	131	58-155
Aroclor-1260	1,539	168.3	1,528	-6 NM	35-159

Surrogate	%REC	Limits
TCMX	111	66-142
Decachlorobiphenyl	76	43-139

Type: MSD Lab ID: QC693175

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	168.1	210.9	125	58-155	4	44
Aroclor-1260	168.1	1,407	-78 NM	35-159	8	53

Surrogate	%REC	Limits
TCMX	100	66-142
Decachlorobiphenyl	76	43-139

 NM= Not Meaningful: Sample concentration > 4X spike concentration
 RPD= Relative Percent Difference

California LUFT Metals			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Field ID:	4PT-COMPOSITE	Batch#:	199582
Matrix:	Soil	Sampled:	06/10/13
Units:	mg/Kg	Received:	06/11/13
Basis:	as received	Prepared:	06/11/13
Diln Fac:	1.000	Analyzed:	06/12/13

Type: SAMPLE Lab ID: 246027-001

Analyte	Result	RL
Cadmium	ND	0.23
Chromium	35	0.23
Lead	43	0.23
Nickel	45	0.23
Zinc	91	0.93

Type: BLANK Lab ID: QC693181

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	1.6 b	1.0

b= See narrative

ND= Not Detected

RL= Reporting Limit

Batch QC Report

California LUFT Metals			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	199582
Units:	mg/Kg	Prepared:	06/11/13
Diln Fac:	1.000	Analyzed:	06/12/13

Type: BS Lab ID: QC693182

Analyte	Spiked	Result	%REC	Limits
Cadmium	10.00	10.39	104	80-120
Chromium	100.0	99.48	99	80-120
Lead	100.0	97.50	97	80-120
Nickel	25.00	25.23	101	80-120
Zinc	25.00	26.36	105	80-120

Type: BSD Lab ID: QC693183

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	10.00	10.37	104	80-120	0	20
Chromium	100.0	99.04	99	80-120	0	20
Lead	100.0	96.90	97	80-120	1	22
Nickel	25.00	25.11	100	80-120	0	20
Zinc	25.00	25.85	103	80-120	2	20

RPD= Relative Percent Difference

Batch QC Report

California LUFT Metals			
Lab #:	246027	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	199582
MSS Lab ID:	245971-001	Sampled:	06/06/13
Matrix:	Soil	Received:	06/07/13
Units:	mg/Kg	Prepared:	06/11/13
Basis:	as received	Analyzed:	06/12/13
Diln Fac:	1.000		

Type: MS Lab ID: QC693184

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	0.2140	9.524	8.839	91	69-120
Chromium	34.78	95.24	121.5	91	60-122
Lead	11.17	95.24	91.37	84	52-120
Nickel	51.01	23.81	69.48	78	45-134
Zinc	54.90	23.81	72.82	75	38-146

Type: MSD Lab ID: QC693185

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	8.850	8.233	91	69-120	0	23
Chromium	88.50	115.9	92	60-122	1	34
Lead	88.50	86.52	85	52-120	1	51
Nickel	22.12	66.08	68	45-134	3	38
Zinc	22.12	76.47	98	38-146	7	36

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 246008
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

Sample ID
WO-COMPOSITE

Lab ID
246008-001

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/14/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: **246008**
Client: **Applied Water Resources**
Project: **AWR 13-05**
Location: **2250 Telegraph**
Request Date:
Samples Received:

This data package contains sample and QC results for WET analysis, requested for the above referenced project on 06/10/13. The sample was received cold and intact. Analysis was placed on hold after the sample was leached. The leachate has been dumped.

Subject: RE: AWR 13-05 - C&T Login Summary (246008)
From: Tyson Fulmer <tfulmer@awrcorp.net>
Date: 6/14/2013 10:06 AM
To: Tracy Babjar <tracy.babjar@ctberk.com>

No Tracy, you can toss that. Thanks,

Tyson Fulmer, PG
AWR Corp

From: Tracy Babjar [mailto:tracy.babjar@ctberk.com]
Sent: Friday, June 14, 2013 10:01 AM
To: Candace Curtis; Logan Linderman; Steve Michelson; Tyson Fulmer; Yola Bayram; Keith Dorsa
Subject: AWR 13-05 - C&T Login Summary (246008)

Any word yet on if you want to run this?

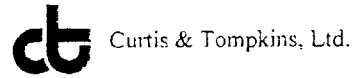
C&T Login Summary for 246008

Project: AWR 13-05
Site: 2250 Telegraph **Report To:** Applied Water Resources **Bill To:** Applied Water Resources
Lab Login #: 246008 1600 Rivera Ave Suite 310 1600 Rivera Ave Suite 310
Report Level: II Walnut Creek, CA 94596 Walnut Creek, CA 94596
Report Due: 06/12/13 ATTN: Steve Michelson ATTN: Steve Michelson
PO#: (925) 938-1600 (925) 938-1600
C&T Proj Mgr: Tracy Babjar

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	Comments
WO-COMPOSITE 001	06/06	06/06		Soil	WET		comp 245921-001,002,003 & 004; Leach and hold

Email compiled and sent 06/14/13 10:00 AM.

COOLER RECEIPT CHECKLIST



Login # 295921 Date Received 6/6/13 Number of coolers 1
Client AWR CORP Project 2250 TELEGRAPH (AWR 13-02)

Date Opened 6/6/13 By (print) TR (sign) Tina Raikan
Date Logged in [initials] By (print) [initials] (sign) [initials]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Cloth material, Foam blocks, Cardboard, Bags, Styrofoam, None, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet, Blue/Gel, None Temp(°C)

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

[Blank lines for comments]

CT# 246002

Subject: RE: AWR 13-05 - C&T Data (245921)
From: Yola Bayram <ybayram@awrcorp.net>
Date: 6/10/2013 3:08 PM
To: "tracy.babjar@ctberk.com" <tracy.babjar@ctberk.com>

Hey Tracy

Can you run a STLC on the Lead for WO-Composite. Can you do it for a 48 hour TAT or whatever the quickest TAT will be.

Thanks!

Yola Bayram
Geologist
AWR Corp
925 938 1600 x106
313 204 8477 - cell
925 938 1610 - fax
ybayram@awrcorp.net

From: Tracy Babjar [mailto:tracy.babjar@ctberk.com]
Sent: Monday, June 10, 2013 2:56 PM
To: Yola Bayram
Subject: AWR 13-05 - C&T Data (245921)

Hi Yola,

Final report, edd and invoice.

Tracy

Please find attached the following files:

- Invoice
- PDF Deliverable
- C&T standard format EDD (245921_standard_rev1.zip)

You may also access this data at <https://labline.ctberk.com/>
Email was also sent to: Ccurtis@awrcorp.net, LLinderman@ERSCORP.US,
SMichelson@AWRCORP.net, Tfulmer@AWRCORP.NET, kdorsa@waterk.net

C&T sends its e-reports via the Internet as Portable Document Format (PDF) files. Reports in this format, when accompanied by a signed cover page, are considered official reports. **No hardcopy reports will be sent either by fax or U.S. Postal Service unless otherwise requested.** You may distribute your PDF files electronically or as printed hardcopies, as long as they are distributed in their entirety.



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878





Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

**Laboratory Job Number 245959
ANALYTICAL REPORT**

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
EX1-BOT-9A	245959-001
EX1-BOT-9B	245959-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/13/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 245959
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/07/13
Samples Received: 06/07/13

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 06/07/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

High recoveries were observed for trichloroethene in the MS/MSD for batch 199550; the parent sample was not a project sample, the BS/BSD were within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples. Low surrogate recoveries were observed for dibromofluoromethane in the MS/MSD for batch 199550; the parent sample was not a project sample. No other analytical problems were encountered.

Metals (EPA 6010B):

Zinc was detected above the RL in the method blank for batch 199582; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

CHAIN OF CUSTODY



2323 Fifth Street
 Berkeley, CA 94710

Phone (510) 486-0900
 Fax (510) 486-0532

C&T LOGIN # 245959

Project No: AWR 1305 Sampler: Y Bayram
 Project Name: 2250 Telegraph Report To: Steve Michelson
 Project P. O. No: _____ Company: AWR Corp.
 EDD Format: Report Level II III IV Telephone: 925-426-1112
 Turnaround Time: RUSH Standard Email: _____

Lab No.	Sample ID.	SAMPLING		MATRIX		# of Containers	CHEMICAL PRESERVATIVE							
		Date Collected	Time Collected	Water	Solid		HCl	H2SO4	HNO3	NaOH	None			
	<u>EX1-BOT-9A</u>	<u>6-7-13</u>			<u>X</u>	<u>6</u>								
	<u>EX1-BOT-9B</u>	<u>6-7-13</u>			<u>X</u>	<u>6</u>								
	EX1-BOT-9C													
	EX1-BOT-9D													

ANALYTICAL REQUEST											
<u>TPHd + TPHmo (8015)</u>											
<u>VOCs (8260)</u>											
<u>LOFT-5</u>											
<u>TPHg + Lead</u>											
<u>Scavengers + Fuel</u>											
<u>OXY</u>											

Notes: Silica Gel Cleanup

SAMPLE RECEIPT

Intact
 Cold
 On Ice
 Ambient

RELINQUISHED BY:

[Signature] DATE: 6/7/13 TIME: 1505

DATE: _____ TIME: _____

DATE: _____ TIME: _____

RECEIVED BY:

[Signature] DATE: 6/7/13 TIME: 1510

DATE: _____ TIME: _____

DATE: _____ TIME: _____

COOLER RECEIPT CHECKLIST



Login # 245959 Date Received 6/7/13 Number of coolers 1
Client AWR CORP Project 2250 TELEGRAPH

Date Opened 6/7/13 By (print) TR (sign) Tina Raitan
Date Logged in 6/7/13 By (print) MS (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) YES (NO)
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples X NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO (N/A)

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Cloth material, Foam blocks, Cardboard, Bags, Styrofoam, None, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) 2.3

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer? 1505

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO (N/A)

16. Did you check preservatives for all bottles for each sample? YES NO (N/A)

17. Did you document your preservative check? YES NO (N/A)

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)

19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)

20. Are bubbles > 6mm absent in VOA samples? YES NO (N/A)

21. Was the client contacted concerning this sample delivery? YES (NO)
If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Gasoline by GC/FID (5035 Prep)

Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	199534
Units:	mg/Kg	Sampled:	06/07/13
Basis:	as received	Received:	06/07/13
Diln Fac:	1.000	Analyzed:	06/10/13

Field ID: EX1-BOT-9A Lab ID: 245959-001
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.16

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	80	64-139

Field ID: EX1-BOT-9B Lab ID: 245959-002
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	91	64-139

Type: BLANK Lab ID: QC692980

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-139

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692979	Batch#:	199534
Matrix:	Soil	Analyzed:	06/10/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.8812	88	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-139

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	245931-001	Batch#:	199534
Matrix:	Soil	Sampled:	06/04/13
Units:	mg/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/11/13

Type: MS Lab ID: QC692981

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.08752	10.75	8.274	76	42-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	64-139

Type: MSD Lab ID: QC692982

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.10	7.829	77	42-120	1	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	64-139

RPD= Relative Percent Difference

Total Extractable Hydrocarbons			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/07/13
Units:	mg/Kg	Received:	06/07/13
Basis:	as received	Prepared:	06/10/13
Diln Fac:	1.000	Analyzed:	06/10/13
Batch#:	199512		

Field ID: EX1-BOT-9A Lab ID: 245959-001
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	2.2 Y	1.0
Motor Oil C24-C36	11	5.0

Surrogate	%REC	Limits
o-Terphenyl	110	62-136

Field ID: EX1-BOT-9B Lab ID: 245959-002
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	112	62-136

Type: BLANK Cleanup Method: EPA 3630C
 Lab ID: QC692887

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	113	62-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692888	Batch#:	199512
Matrix:	Soil	Prepared:	06/10/13
Units:	mg/Kg	Analyzed:	06/10/13

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.33	50.07	99	62-130

Surrogate	%REC	Limits
o-Terphenyl	107	62-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	199512
MSS Lab ID:	245971-001	Sampled:	06/06/13
Matrix:	Soil	Received:	06/07/13
Units:	mg/Kg	Prepared:	06/10/13
Basis:	as received	Analyzed:	06/10/13
Diln Fac:	1.000		

Type: MS Lab ID: QC692889

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	30.81	49.68	76.53	92	39-148

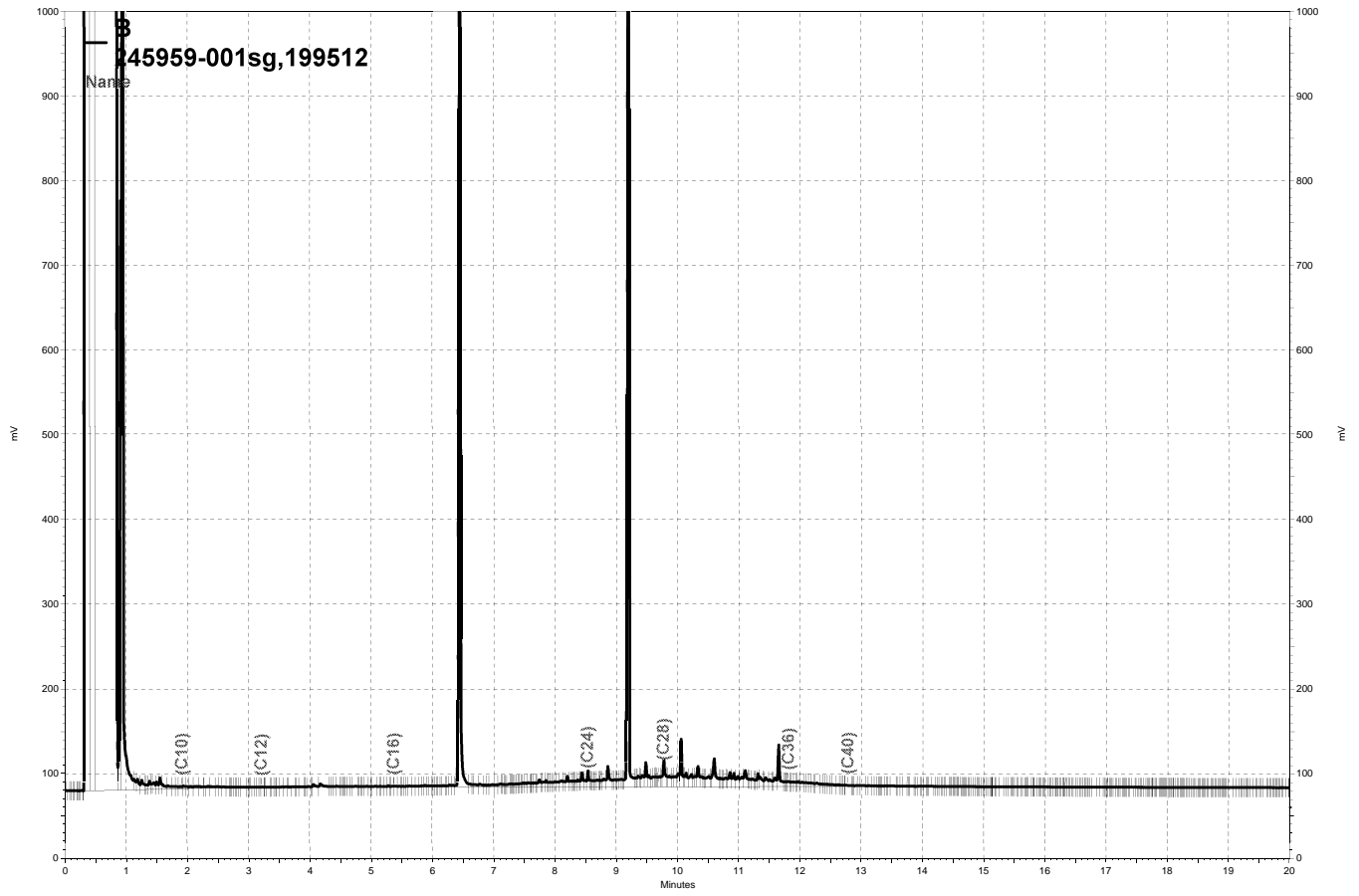
Surrogate	%REC	Limits
o-Terphenyl	113	62-136

Type: MSD Lab ID: QC692890

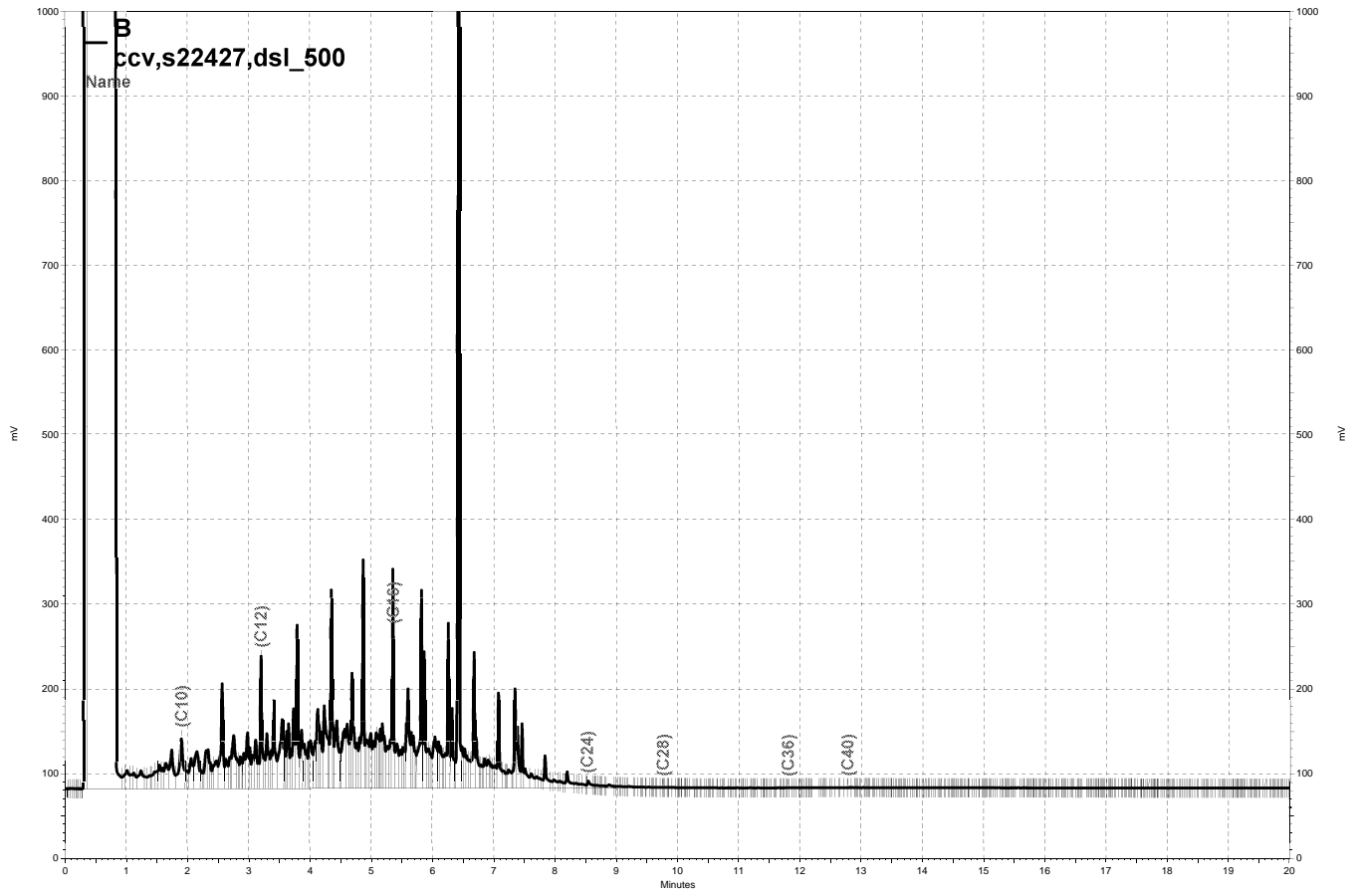
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.24	71.69	81	39-148	7	45

Surrogate	%REC	Limits
o-Terphenyl	105	62-136

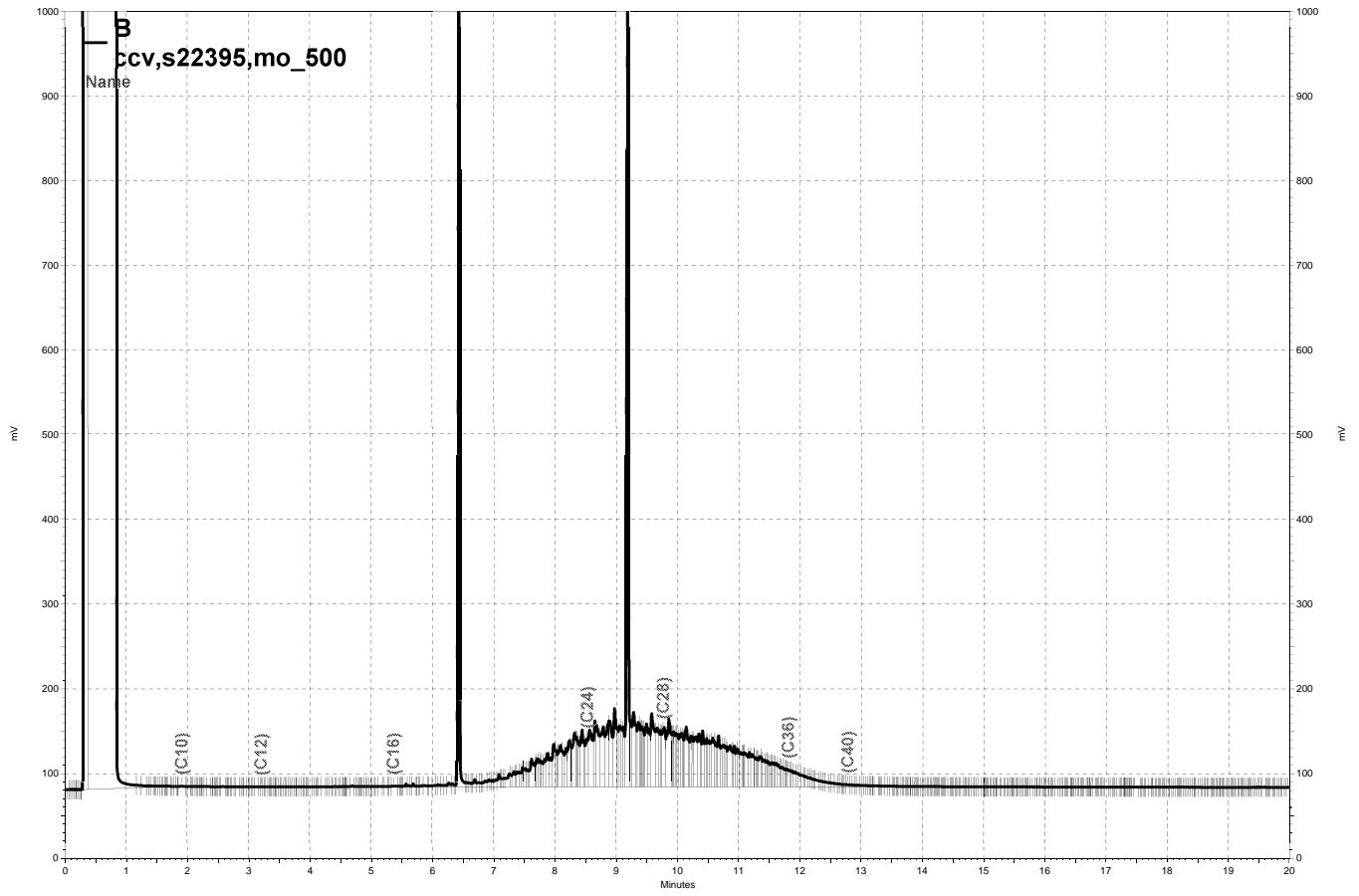
RPD= Relative Percent Difference



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\161b019, B



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\161b007, B



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\161b008, B

Purgeable Organics by GC/MS			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-BOT-9A	Diln Fac:	0.7143
Lab ID:	245959-001	Batch#:	199550
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/11/13

Analyte	Result	RL
Freon 12	ND	7.1
tert-Butyl Alcohol (TBA)	ND	71
Chloromethane	ND	7.1
Isopropyl Ether (DIPE)	ND	3.6
Vinyl Chloride	ND	7.1
Bromomethane	ND	7.1
Ethyl tert-Butyl Ether (ETBE)	ND	3.6
Chloroethane	ND	7.1
Methyl tert-Amyl Ether (TAME)	ND	3.6
Trichlorofluoromethane	ND	3.6
Acetone	ND	14
Freon 113	ND	3.6
1,1-Dichloroethene	ND	3.6
Methylene Chloride	ND	14
Carbon Disulfide	ND	3.6
MTBE	ND	3.6
trans-1,2-Dichloroethene	ND	3.6
Vinyl Acetate	ND	36
1,1-Dichloroethane	ND	3.6
2-Butanone	ND	7.1
cis-1,2-Dichloroethene	ND	3.6
2,2-Dichloropropane	ND	3.6
Chloroform	ND	3.6
Bromochloromethane	ND	3.6
1,1,1-Trichloroethane	ND	3.6
1,1-Dichloropropene	ND	3.6
Carbon Tetrachloride	ND	3.6
1,2-Dichloroethane	ND	3.6
Benzene	ND	3.6
Trichloroethene	ND	3.6
1,2-Dichloropropane	ND	3.6
Bromodichloromethane	ND	3.6
Dibromomethane	ND	3.6
4-Methyl-2-Pentanone	ND	7.1
cis-1,3-Dichloropropene	ND	3.6
Toluene	ND	3.6
trans-1,3-Dichloropropene	ND	3.6
1,1,2-Trichloroethane	ND	3.6
2-Hexanone	ND	7.1
1,3-Dichloropropane	ND	3.6
Tetrachloroethene	ND	3.6
Dibromochloromethane	ND	3.6
1,2-Dibromoethane	ND	3.6
Chlorobenzene	ND	3.6
1,1,1,2-Tetrachloroethane	ND	3.6
Ethylbenzene	ND	3.6
m,p-Xylenes	ND	3.6
o-Xylene	ND	3.6
Styrene	ND	3.6
Bromoform	ND	3.6
Isopropylbenzene	ND	3.6
1,1,2,2-Tetrachloroethane	ND	3.6
1,2,3-Trichloropropane	ND	3.6
Propylbenzene	ND	3.6

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-BOT-9A	Diln Fac:	0.7143
Lab ID:	245959-001	Batch#:	199550
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/11/13

Analyte	Result	RL
Bromobenzene	ND	3.6
1,3,5-Trimethylbenzene	ND	3.6
2-Chlorotoluene	ND	3.6
4-Chlorotoluene	ND	3.6
tert-Butylbenzene	ND	3.6
1,2,4-Trimethylbenzene	ND	3.6
sec-Butylbenzene	ND	3.6
para-Isopropyl Toluene	ND	3.6
1,3-Dichlorobenzene	ND	3.6
1,4-Dichlorobenzene	ND	3.6
n-Butylbenzene	ND	3.6
1,2-Dichlorobenzene	ND	3.6
1,2-Dibromo-3-Chloropropane	ND	3.6
1,2,4-Trichlorobenzene	ND	3.6
Hexachlorobutadiene	ND	3.6
Naphthalene	ND	3.6
1,2,3-Trichlorobenzene	ND	3.6

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	98	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-BOT-9B	Diln Fac:	0.8606
Lab ID:	245959-002	Batch#:	199550
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/11/13

Analyte	Result	RL
Freon 12	ND	8.6
tert-Butyl Alcohol (TBA)	ND	86
Chloromethane	ND	8.6
Isopropyl Ether (DIPE)	ND	4.3
Vinyl Chloride	ND	8.6
Bromomethane	ND	8.6
Ethyl tert-Butyl Ether (ETBE)	ND	4.3
Chloroethane	ND	8.6
Methyl tert-Amyl Ether (TAME)	ND	4.3
Trichlorofluoromethane	ND	4.3
Acetone	ND	17
Freon 113	ND	4.3
1,1-Dichloroethene	ND	4.3
Methylene Chloride	ND	17
Carbon Disulfide	ND	4.3
MTBE	ND	4.3
trans-1,2-Dichloroethene	ND	4.3
Vinyl Acetate	ND	43
1,1-Dichloroethane	ND	4.3
2-Butanone	ND	8.6
cis-1,2-Dichloroethene	ND	4.3
2,2-Dichloropropane	ND	4.3
Chloroform	ND	4.3
Bromochloromethane	ND	4.3
1,1,1-Trichloroethane	ND	4.3
1,1-Dichloropropene	ND	4.3
Carbon Tetrachloride	ND	4.3
1,2-Dichloroethane	ND	4.3
Benzene	ND	4.3
Trichloroethene	ND	4.3
1,2-Dichloropropane	ND	4.3
Bromodichloromethane	ND	4.3
Dibromomethane	ND	4.3
4-Methyl-2-Pentanone	ND	8.6
cis-1,3-Dichloropropene	ND	4.3
Toluene	ND	4.3
trans-1,3-Dichloropropene	ND	4.3
1,1,2-Trichloroethane	ND	4.3
2-Hexanone	ND	8.6
1,3-Dichloropropane	ND	4.3
Tetrachloroethene	ND	4.3
Dibromochloromethane	ND	4.3
1,2-Dibromoethane	ND	4.3
Chlorobenzene	ND	4.3
1,1,1,2-Tetrachloroethane	ND	4.3
Ethylbenzene	ND	4.3
m,p-Xylenes	ND	4.3
o-Xylene	ND	4.3
Styrene	ND	4.3
Bromoform	ND	4.3
Isopropylbenzene	ND	4.3
1,1,2,2-Tetrachloroethane	ND	4.3
1,2,3-Trichloropropane	ND	4.3
Propylbenzene	ND	4.3

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-BOT-9B	Diln Fac:	0.8606
Lab ID:	245959-002	Batch#:	199550
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/11/13

Analyte	Result	RL
Bromobenzene	ND	4.3
1,3,5-Trimethylbenzene	ND	4.3
2-Chlorotoluene	ND	4.3
4-Chlorotoluene	ND	4.3
tert-Butylbenzene	ND	4.3
1,2,4-Trimethylbenzene	ND	4.3
sec-Butylbenzene	ND	4.3
para-Isopropyl Toluene	ND	4.3
1,3-Dichlorobenzene	ND	4.3
1,4-Dichlorobenzene	ND	4.3
n-Butylbenzene	ND	4.3
1,2-Dichlorobenzene	ND	4.3
1,2-Dibromo-3-Chloropropane	ND	4.3
1,2,4-Trichlorobenzene	ND	4.3
Hexachlorobutadiene	ND	4.3
Naphthalene	ND	4.3
1,2,3-Trichlorobenzene	ND	4.3

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-124
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	112	80-120
Bromofluorobenzene	102	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC693044	Batch#:	199550
Matrix:	Soil	Analyzed:	06/11/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC693044	Batch#:	199550
Matrix:	Soil	Analyzed:	06/11/13
Units:	ug/Kg		

Analyte	Result	RL
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	97	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199550
Units:	ug/Kg	Analyzed:	06/11/13
Diln Fac:	1.000		

Type: BS Lab ID: QC693045

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	79.61	80	53-141
Isopropyl Ether (DIPE)	20.00	18.60	93	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	17.56	88	62-121
Methyl tert-Amyl Ether (TAME)	20.00	17.68	88	66-120
1,1-Dichloroethene	20.00	18.86	94	67-132
Benzene	20.00	21.63	108	77-126
Trichloroethene	20.00	20.98	105	76-127
Toluene	20.00	21.35	107	76-124
Chlorobenzene	20.00	22.64	113	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	84	80-137
Toluene-d8	106	80-120
Bromofluorobenzene	92	79-127

Type: BSD Lab ID: QC693046

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	80.91	81	53-141	2	34
Isopropyl Ether (DIPE)	20.00	15.12	76	57-122	21	26
Ethyl tert-Butyl Ether (ETBE)	20.00	17.80	89	62-121	1	28
Methyl tert-Amyl Ether (TAME)	20.00	17.34	87	66-120	2	24
1,1-Dichloroethene	20.00	20.84	104	67-132	10	27
Benzene	20.00	20.86	104	77-126	4	20
Trichloroethene	20.00	20.39	102	76-127	3	22
Toluene	20.00	21.21	106	76-124	1	26
Chlorobenzene	20.00	21.93	110	76-120	3	21

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-124
1,2-Dichloroethane-d4	86	80-137
Toluene-d8	108	80-120
Bromofluorobenzene	92	79-127

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	199550
MSS Lab ID:	245917-008	Sampled:	06/05/13
Matrix:	Soil	Received:	06/06/13
Units:	ug/Kg	Analyzed:	06/11/13
Basis:	as received		

Type: MS Diln Fac: 0.9158
 Lab ID: QC693135

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<13.04	228.9	120.9	53	42-135
Isopropyl Ether (DIPE)	<0.8565	45.79	27.25	60	45-120
Ethyl tert-Butyl Ether (ETBE)	<0.7212	45.79	25.98	57	49-120
Methyl tert-Amyl Ether (TAME)	<0.5602	45.79	25.65	56	50-120
1,1-Dichloroethene	<0.9249	45.79	42.48	93	52-132
Benzene	<0.8881	45.79	36.09	79	54-121
Trichloroethene	<0.8220	45.79	68.06	149 *	46-138
Toluene	<0.7001	45.79	36.41	80	47-120
Chlorobenzene	<0.6753	45.79	34.43	75	41-120

Surrogate	%REC	Limits
Dibromofluoromethane	18 *	80-124
1,2-Dichloroethane-d4	87	80-137
Toluene-d8	107	80-120
Bromofluorobenzene	94	79-127

Type: MSD Diln Fac: 0.9242
 Lab ID: QC693136

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	231.1	123.3	53	42-135	1	53
Isopropyl Ether (DIPE)	46.21	26.34	57	45-120	4	45
Ethyl tert-Butyl Ether (ETBE)	46.21	24.66	53	49-120	6	46
Methyl tert-Amyl Ether (TAME)	46.21	23.73	51	50-120	9	43
1,1-Dichloroethene	46.21	53.35	115	52-132	22	46
Benzene	46.21	33.96	73	54-121	7	43
Trichloroethene	46.21	65.60	142 *	46-138	5	50
Toluene	46.21	34.79	75	47-120	5	53
Chlorobenzene	46.21	32.65	71	41-120	6	50

Surrogate	%REC	Limits
Dibromofluoromethane	17 *	80-124
1,2-Dichloroethane-d4	86	80-137
Toluene-d8	105	80-120
Bromofluorobenzene	94	79-127

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

California LUFT Metals			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	199582
Units:	mg/Kg	Sampled:	06/07/13
Basis:	as received	Received:	06/07/13
Diln Fac:	1.000	Prepared:	06/11/13

Field ID: EX1-BOT-9A Lab ID: 245959-001
 Type: SAMPLE Analyzed: 06/13/13

Analyte	Result	RL
Cadmium	ND	0.23
Chromium	35	0.23
Lead	15	0.23
Nickel	38	0.23
Zinc	56	0.90

Field ID: EX1-BOT-9B Lab ID: 245959-002
 Type: SAMPLE Analyzed: 06/13/13

Analyte	Result	RL
Cadmium	ND	0.24
Chromium	32	0.24
Lead	5.3	0.24
Nickel	31	0.24
Zinc	43	0.95

Type: BLANK Analyzed: 06/12/13
 Lab ID: QC693181

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	1.6 b	1.0

b= See narrative
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California LUFT Metals			
Lab #:	245959	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	199582
MSS Lab ID:	245971-001	Sampled:	06/06/13
Matrix:	Soil	Received:	06/07/13
Units:	mg/Kg	Prepared:	06/11/13
Basis:	as received	Analyzed:	06/12/13
Diln Fac:	1.000		

Type: MS Lab ID: QC693184

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	0.2140	9.524	8.839	91	69-120
Chromium	34.78	95.24	121.5	91	60-122
Lead	11.17	95.24	91.37	84	52-120
Nickel	51.01	23.81	69.48	78	45-134
Zinc	54.90	23.81	72.82	75	38-146

Type: MSD Lab ID: QC693185

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	8.850	8.233	91	69-120	0	23
Chromium	88.50	115.9	92	60-122	1	34
Lead	88.50	86.52	85	52-120	1	51
Nickel	22.12	66.08	68	45-134	3	38
Zinc	22.12	76.47	98	38-146	7	36

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.

Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 245955
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

Sample ID

EX1-G-9

EX1-H-9

Lab ID

245955-001

245955-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

Date: 06/10/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 245955
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/07/13
Samples Received: 06/07/13

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 06/07/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 245955 Date Received 06/07/13 Number of coolers 1
Client AWR Project AWR 13-05

Date Opened 06/07/13 By (print) M G (sign) [Signature]
Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) 2-3

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer? 1505

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Gasoline by GC/FID (5035 Prep)			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	199497
Units:	mg/Kg	Sampled:	06/07/13
Basis:	as received	Received:	06/07/13
Diln Fac:	1.000		

Field ID: EX1-G-9 Lab ID: 245955-001
 Type: SAMPLE Analyzed: 06/10/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-139

Field ID: EX1-H-9 Lab ID: 245955-002
 Type: SAMPLE Analyzed: 06/10/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-139

Type: BLANK Analyzed: 06/09/13
 Lab ID: QC692828

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	64-139

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692825	Batch#:	199497
Matrix:	Soil	Analyzed:	06/09/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9284	93	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-139

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	333.3
MSS Lab ID:	245906-010	Batch#:	199497
Matrix:	Soil	Sampled:	06/03/13
Units:	mg/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/10/13

Type: MS Lab ID: QC692829

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,485	1,361	2,606	82	42-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	64-139

Type: MSD Lab ID: QC692830

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,361	2,665	87	42-120	2	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	64-139

RPD= Relative Percent Difference

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692715	Batch#:	199471
Matrix:	Soil	Prepared:	06/07/13
Units:	mg/Kg	Analyzed:	06/09/13

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.80	46.31	93	62-130

Surrogate	%REC	Limits
o-Terphenyl	97	62-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	EX1-G-9	Batch#:	199471
MSS Lab ID:	245955-001	Sampled:	06/07/13
Matrix:	Soil	Received:	06/07/13
Units:	mg/Kg	Prepared:	06/07/13
Basis:	as received	Analyzed:	06/10/13
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC692716

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.3846	49.92	43.03	85	39-148

Surrogate	%REC	Limits
o-Terphenyl	92	62-136

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC692717

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.84	47.88	95	39-148	11	45

Surrogate	%REC	Limits
o-Terphenyl	104	62-136

RPD= Relative Percent Difference

Purgeable Organics by GC/MS

Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-G-9	Diln Fac:	0.8375
Lab ID:	245955-001	Batch#:	199461
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/08/13

Analyte	Result	RL
Freon 12	ND	8.4
tert-Butyl Alcohol (TBA)	ND	84
Chloromethane	ND	8.4
Isopropyl Ether (DIPE)	ND	4.2
Vinyl Chloride	ND	8.4
Bromomethane	ND	8.4
Ethyl tert-Butyl Ether (ETBE)	ND	4.2
Chloroethane	ND	8.4
Methyl tert-Amyl Ether (TAME)	ND	4.2
Trichlorofluoromethane	ND	4.2
Acetone	17	17
Freon 113	ND	4.2
1,1-Dichloroethene	ND	4.2
Methylene Chloride	ND	17
Carbon Disulfide	ND	4.2
MTBE	ND	4.2
trans-1,2-Dichloroethene	ND	4.2
Vinyl Acetate	ND	42
1,1-Dichloroethane	ND	4.2
2-Butanone	ND	8.4
cis-1,2-Dichloroethene	ND	4.2
2,2-Dichloropropane	ND	4.2
Chloroform	ND	4.2
Bromochloromethane	ND	4.2
1,1,1-Trichloroethane	ND	4.2
1,1-Dichloropropene	ND	4.2
Carbon Tetrachloride	ND	4.2
1,2-Dichloroethane	ND	4.2
Benzene	ND	4.2
Trichloroethene	ND	4.2
1,2-Dichloropropane	ND	4.2
Bromodichloromethane	ND	4.2
Dibromomethane	ND	4.2
4-Methyl-2-Pentanone	ND	8.4
cis-1,3-Dichloropropene	ND	4.2
Toluene	ND	4.2
trans-1,3-Dichloropropene	ND	4.2
1,1,2-Trichloroethane	ND	4.2
2-Hexanone	ND	8.4
1,3-Dichloropropane	ND	4.2
Tetrachloroethene	ND	4.2
Dibromochloromethane	ND	4.2
1,2-Dibromoethane	ND	4.2
Chlorobenzene	ND	4.2
1,1,1,2-Tetrachloroethane	ND	4.2
Ethylbenzene	ND	4.2
m,p-Xylenes	ND	4.2
o-Xylene	ND	4.2
Styrene	ND	4.2
Bromoform	ND	4.2
Isopropylbenzene	ND	4.2
1,1,2,2-Tetrachloroethane	ND	4.2
1,2,3-Trichloropropane	ND	4.2
Propylbenzene	ND	4.2

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-G-9	Diln Fac:	0.8375
Lab ID:	245955-001	Batch#:	199461
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/08/13

Analyte	Result	RL
Bromobenzene	ND	4.2
1,3,5-Trimethylbenzene	ND	4.2
2-Chlorotoluene	ND	4.2
4-Chlorotoluene	ND	4.2
tert-Butylbenzene	ND	4.2
1,2,4-Trimethylbenzene	ND	4.2
sec-Butylbenzene	ND	4.2
para-Isopropyl Toluene	ND	4.2
1,3-Dichlorobenzene	ND	4.2
1,4-Dichlorobenzene	ND	4.2
n-Butylbenzene	ND	4.2
1,2-Dichlorobenzene	ND	4.2
1,2-Dibromo-3-Chloropropane	ND	4.2
1,2,4-Trichlorobenzene	ND	4.2
Hexachlorobutadiene	ND	4.2
Naphthalene	ND	4.2
1,2,3-Trichlorobenzene	ND	4.2

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-124
1,2-Dichloroethane-d4	118	80-137
Toluene-d8	107	80-120
Bromofluorobenzene	95	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-H-9	Diln Fac:	0.9107
Lab ID:	245955-002	Batch#:	199461
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/08/13

Analyte	Result	RL
Freon 12	ND	9.1
tert-Butyl Alcohol (TBA)	ND	91
Chloromethane	ND	9.1
Isopropyl Ether (DIPE)	ND	4.6
Vinyl Chloride	ND	9.1
Bromomethane	ND	9.1
Ethyl tert-Butyl Ether (ETBE)	ND	4.6
Chloroethane	ND	9.1
Methyl tert-Amyl Ether (TAME)	ND	4.6
Trichlorofluoromethane	ND	4.6
Acetone	ND	18
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.6
MTBE	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
Vinyl Acetate	ND	46
1,1-Dichloroethane	ND	4.6
2-Butanone	ND	9.1
cis-1,2-Dichloroethene	ND	4.6
2,2-Dichloropropane	ND	4.6
Chloroform	ND	4.6
Bromochloromethane	ND	4.6
1,1,1-Trichloroethane	ND	4.6
1,1-Dichloropropene	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Benzene	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
Dibromomethane	ND	4.6
4-Methyl-2-Pentanone	ND	9.1
cis-1,3-Dichloropropene	ND	4.6
Toluene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
2-Hexanone	ND	9.1
1,3-Dichloropropane	ND	4.6
Tetrachloroethene	ND	4.6
Dibromochloromethane	ND	4.6
1,2-Dibromoethane	ND	4.6
Chlorobenzene	ND	4.6
1,1,1,2-Tetrachloroethane	ND	4.6
Ethylbenzene	ND	4.6
m,p-Xylenes	ND	4.6
o-Xylene	ND	4.6
Styrene	ND	4.6
Bromoform	ND	4.6
Isopropylbenzene	ND	4.6
1,1,2,2-Tetrachloroethane	ND	4.6
1,2,3-Trichloropropane	ND	4.6
Propylbenzene	ND	4.6

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-H-9	Diln Fac:	0.9107
Lab ID:	245955-002	Batch#:	199461
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/08/13

Analyte	Result	RL
Bromobenzene	ND	4.6
1,3,5-Trimethylbenzene	ND	4.6
2-Chlorotoluene	ND	4.6
4-Chlorotoluene	ND	4.6
tert-Butylbenzene	ND	4.6
1,2,4-Trimethylbenzene	ND	4.6
sec-Butylbenzene	ND	4.6
para-Isopropyl Toluene	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
n-Butylbenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6
1,2-Dibromo-3-Chloropropane	ND	4.6
1,2,4-Trichlorobenzene	ND	4.6
Hexachlorobutadiene	ND	4.6
Naphthalene	ND	4.6
1,2,3-Trichlorobenzene	ND	4.6

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-124
1,2-Dichloroethane-d4	115	80-137
Toluene-d8	105	80-120
Bromofluorobenzene	91	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199461
Units:	ug/Kg	Analyzed:	06/07/13
Diln Fac:	1.000		

Type: BS Lab ID: QC692681

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	110.9	89	53-141
Isopropyl Ether (DIPE)	25.00	22.66	91	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	23.26	93	62-121
Methyl tert-Amyl Ether (TAME)	25.00	25.42	102	66-120
1,1-Dichloroethene	25.00	25.38	102	67-132
Benzene	25.00	28.13	113	77-126
Trichloroethene	25.00	26.29	105	76-127
Toluene	25.00	28.67	115	76-124
Chlorobenzene	25.00	27.31	109	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	89	79-127

Type: BSD Lab ID: QC692682

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	102.1	82	53-141	8	34
Isopropyl Ether (DIPE)	25.00	21.84	87	57-122	4	26
Ethyl tert-Butyl Ether (ETBE)	25.00	22.72	91	62-121	2	28
Methyl tert-Amyl Ether (TAME)	25.00	23.70	95	66-120	7	24
1,1-Dichloroethene	25.00	27.19	109	67-132	7	27
Benzene	25.00	26.67	107	77-126	5	20
Trichloroethene	25.00	26.84	107	76-127	2	22
Toluene	25.00	28.39	114	76-124	1	26
Chlorobenzene	25.00	26.52	106	76-120	3	21

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	90	79-127

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692683	Batch#:	199461
Matrix:	Soil	Analyzed:	06/07/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692683	Batch#:	199461
Matrix:	Soil	Analyzed:	06/07/13
Units:	ug/Kg		

Analyte	Result	RL
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	107	80-120
Bromofluorobenzene	94	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	199461
MSS Lab ID:	245931-001	Sampled:	06/04/13
Matrix:	Soil	Received:	06/06/13
Units:	ug/Kg	Analyzed:	06/07/13
Basis:	as received		

Type: MS Diln Fac: 0.9328
 Lab ID: QC692722

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<12.45	233.2	195.1	84	42-135
Isopropyl Ether (DIPE)	<0.8179	46.64	38.22	82	45-120
Ethyl tert-Butyl Ether (ETBE)	<0.6887	46.64	39.68	85	49-120
Methyl tert-Amyl Ether (TAME)	<0.5349	46.64	42.52	91	50-120
1,1-Dichloroethene	<0.8831	46.64	50.34	108	52-132
Benzene	<0.8480	46.64	48.15	103	54-121
Trichloroethene	<0.7849	46.64	46.70	100	46-138
Toluene	<0.6685	46.64	47.80	102	47-120
Chlorobenzene	<0.6448	46.64	44.86	96	41-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	116	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	92	79-127

Type: MSD Diln Fac: 0.9416
 Lab ID: QC692723

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	235.4	181.7	77	42-135	8	53
Isopropyl Ether (DIPE)	47.08	37.91	81	45-120	2	45
Ethyl tert-Butyl Ether (ETBE)	47.08	38.16	81	49-120	5	46
Methyl tert-Amyl Ether (TAME)	47.08	39.69	84	50-120	8	43
1,1-Dichloroethene	47.08	56.40	120	52-132	10	46
Benzene	47.08	50.30	107	54-121	3	43
Trichloroethene	47.08	50.41	107	46-138	7	50
Toluene	47.08	51.34	109	47-120	6	53
Chlorobenzene	47.08	47.45	101	41-120	5	50

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-124
1,2-Dichloroethane-d4	110	80-137
Toluene-d8	103	80-120
Bromofluorobenzene	93	79-127

RPD= Relative Percent Difference

California LUFT Metals			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	199484
Units:	mg/Kg	Sampled:	06/07/13
Basis:	as received	Received:	06/07/13
Diln Fac:	1.000	Prepared:	06/07/13

Field ID: EX1-G-9 Lab ID: 245955-001
 Type: SAMPLE Analyzed: 06/10/13

Analyte	Result	RL
Cadmium	0.22	0.22
Chromium	39	0.22
Lead	7.0	0.22
Nickel	57	0.22
Zinc	53	0.88

Field ID: EX1-H-9 Lab ID: 245955-002
 Type: SAMPLE Analyzed: 06/10/13

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	38	0.25
Lead	6.0	0.25
Nickel	40	0.25
Zinc	50	0.99

Type: BLANK Analyzed: 06/09/13
 Lab ID: QC692771

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	ND	1.0

ND= Not Detected
 RL= Reporting Limit



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 245955
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

Sample ID

EX1-G-6

EX1-H-6

Lab ID

245955-001

245955-002

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/10/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 245955
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/07/13
Samples Received: 06/07/13

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 06/07/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Metals (EPA 6010B):

No analytical problems were encountered.

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 245955 Date Received 06/07/13 Number of coolers 1
Client AWR Project AWR 13-05

Date Opened 06/07/13 By (print) M G (sign) [Signature]
Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C) 2-3

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer? 1505

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Gasoline by GC/FID (5035 Prep)			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	199497
Units:	mg/Kg	Sampled:	06/07/13
Basis:	as received	Received:	06/07/13
Diln Fac:	1.000		

Field ID: EX1-G-6 Lab ID: 245955-001
 Type: SAMPLE Analyzed: 06/10/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.15

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-139

Field ID: EX1-H-6 Lab ID: 245955-002
 Type: SAMPLE Analyzed: 06/10/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.18

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-139

Type: BLANK Analyzed: 06/09/13
 Lab ID: QC692828

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	64-139

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692825	Batch#:	199497
Matrix:	Soil	Analyzed:	06/09/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9284	93	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-139

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	333.3
MSS Lab ID:	245906-010	Batch#:	199497
Matrix:	Soil	Sampled:	06/03/13
Units:	mg/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/10/13

Type: MS Lab ID: QC692829

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	577.1	528.7	1,013	82	42-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	64-139

Type: MSD Lab ID: QC692830

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	528.7	1,035	87	42-120	2	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	64-139

RPD= Relative Percent Difference

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692715	Batch#:	199471
Matrix:	Soil	Prepared:	06/07/13
Units:	mg/Kg	Analyzed:	06/09/13

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.80	46.31	93	62-130

Surrogate	%REC	Limits
o-Terphenyl	97	62-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	EX1-G-6	Batch#:	199471
MSS Lab ID:	245955-001	Sampled:	06/07/13
Matrix:	Soil	Received:	06/07/13
Units:	mg/Kg	Prepared:	06/07/13
Basis:	as received	Analyzed:	06/10/13
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC692716

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	0.3846	49.92	43.03	85	39-148

Surrogate	%REC	Limits
o-Terphenyl	92	62-136

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC692717

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.84	47.88	95	39-148	11	45

Surrogate	%REC	Limits
o-Terphenyl	104	62-136

RPD= Relative Percent Difference

Purgeable Organics by GC/MS

Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-G-6	Diln Fac:	0.8375
Lab ID:	245955-001	Batch#:	199461
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/08/13

Analyte	Result	RL
Freon 12	ND	8.4
tert-Butyl Alcohol (TBA)	ND	84
Chloromethane	ND	8.4
Isopropyl Ether (DIPE)	ND	4.2
Vinyl Chloride	ND	8.4
Bromomethane	ND	8.4
Ethyl tert-Butyl Ether (ETBE)	ND	4.2
Chloroethane	ND	8.4
Methyl tert-Amyl Ether (TAME)	ND	4.2
Trichlorofluoromethane	ND	4.2
Acetone	17	17
Freon 113	ND	4.2
1,1-Dichloroethene	ND	4.2
Methylene Chloride	ND	17
Carbon Disulfide	ND	4.2
MTBE	ND	4.2
trans-1,2-Dichloroethene	ND	4.2
Vinyl Acetate	ND	42
1,1-Dichloroethane	ND	4.2
2-Butanone	ND	8.4
cis-1,2-Dichloroethene	ND	4.2
2,2-Dichloropropane	ND	4.2
Chloroform	ND	4.2
Bromochloromethane	ND	4.2
1,1,1-Trichloroethane	ND	4.2
1,1-Dichloropropene	ND	4.2
Carbon Tetrachloride	ND	4.2
1,2-Dichloroethane	ND	4.2
Benzene	ND	4.2
Trichloroethene	ND	4.2
1,2-Dichloropropane	ND	4.2
Bromodichloromethane	ND	4.2
Dibromomethane	ND	4.2
4-Methyl-2-Pentanone	ND	8.4
cis-1,3-Dichloropropene	ND	4.2
Toluene	ND	4.2
trans-1,3-Dichloropropene	ND	4.2
1,1,2-Trichloroethane	ND	4.2
2-Hexanone	ND	8.4
1,3-Dichloropropane	ND	4.2
Tetrachloroethene	ND	4.2
Dibromochloromethane	ND	4.2
1,2-Dibromoethane	ND	4.2
Chlorobenzene	ND	4.2
1,1,1,2-Tetrachloroethane	ND	4.2
Ethylbenzene	ND	4.2
m,p-Xylenes	ND	4.2
o-Xylene	ND	4.2
Styrene	ND	4.2
Bromoform	ND	4.2
Isopropylbenzene	ND	4.2
1,1,2,2-Tetrachloroethane	ND	4.2
1,2,3-Trichloropropane	ND	4.2
Propylbenzene	ND	4.2

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-G-6	Diln Fac:	0.8375
Lab ID:	245955-001	Batch#:	199461
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/08/13

Analyte	Result	RL
Bromobenzene	ND	4.2
1,3,5-Trimethylbenzene	ND	4.2
2-Chlorotoluene	ND	4.2
4-Chlorotoluene	ND	4.2
tert-Butylbenzene	ND	4.2
1,2,4-Trimethylbenzene	ND	4.2
sec-Butylbenzene	ND	4.2
para-Isopropyl Toluene	ND	4.2
1,3-Dichlorobenzene	ND	4.2
1,4-Dichlorobenzene	ND	4.2
n-Butylbenzene	ND	4.2
1,2-Dichlorobenzene	ND	4.2
1,2-Dibromo-3-Chloropropane	ND	4.2
1,2,4-Trichlorobenzene	ND	4.2
Hexachlorobutadiene	ND	4.2
Naphthalene	ND	4.2
1,2,3-Trichlorobenzene	ND	4.2

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-124
1,2-Dichloroethane-d4	118	80-137
Toluene-d8	107	80-120
Bromofluorobenzene	95	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-H-6	Diln Fac:	0.9107
Lab ID:	245955-002	Batch#:	199461
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/08/13

Analyte	Result	RL
Freon 12	ND	9.1
tert-Butyl Alcohol (TBA)	ND	91
Chloromethane	ND	9.1
Isopropyl Ether (DIPE)	ND	4.6
Vinyl Chloride	ND	9.1
Bromomethane	ND	9.1
Ethyl tert-Butyl Ether (ETBE)	ND	4.6
Chloroethane	ND	9.1
Methyl tert-Amyl Ether (TAME)	ND	4.6
Trichlorofluoromethane	ND	4.6
Acetone	ND	18
Freon 113	ND	4.6
1,1-Dichloroethene	ND	4.6
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.6
MTBE	ND	4.6
trans-1,2-Dichloroethene	ND	4.6
Vinyl Acetate	ND	46
1,1-Dichloroethane	ND	4.6
2-Butanone	ND	9.1
cis-1,2-Dichloroethene	ND	4.6
2,2-Dichloropropane	ND	4.6
Chloroform	ND	4.6
Bromochloromethane	ND	4.6
1,1,1-Trichloroethane	ND	4.6
1,1-Dichloropropene	ND	4.6
Carbon Tetrachloride	ND	4.6
1,2-Dichloroethane	ND	4.6
Benzene	ND	4.6
Trichloroethene	ND	4.6
1,2-Dichloropropane	ND	4.6
Bromodichloromethane	ND	4.6
Dibromomethane	ND	4.6
4-Methyl-2-Pentanone	ND	9.1
cis-1,3-Dichloropropene	ND	4.6
Toluene	ND	4.6
trans-1,3-Dichloropropene	ND	4.6
1,1,2-Trichloroethane	ND	4.6
2-Hexanone	ND	9.1
1,3-Dichloropropane	ND	4.6
Tetrachloroethene	ND	4.6
Dibromochloromethane	ND	4.6
1,2-Dibromoethane	ND	4.6
Chlorobenzene	ND	4.6
1,1,1,2-Tetrachloroethane	ND	4.6
Ethylbenzene	ND	4.6
m,p-Xylenes	ND	4.6
o-Xylene	ND	4.6
Styrene	ND	4.6
Bromoform	ND	4.6
Isopropylbenzene	ND	4.6
1,1,2,2-Tetrachloroethane	ND	4.6
1,2,3-Trichloropropane	ND	4.6
Propylbenzene	ND	4.6

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-H-6	Diln Fac:	0.9107
Lab ID:	245955-002	Batch#:	199461
Matrix:	Soil	Sampled:	06/07/13
Units:	ug/Kg	Received:	06/07/13
Basis:	as received	Analyzed:	06/08/13

Analyte	Result	RL
Bromobenzene	ND	4.6
1,3,5-Trimethylbenzene	ND	4.6
2-Chlorotoluene	ND	4.6
4-Chlorotoluene	ND	4.6
tert-Butylbenzene	ND	4.6
1,2,4-Trimethylbenzene	ND	4.6
sec-Butylbenzene	ND	4.6
para-Isopropyl Toluene	ND	4.6
1,3-Dichlorobenzene	ND	4.6
1,4-Dichlorobenzene	ND	4.6
n-Butylbenzene	ND	4.6
1,2-Dichlorobenzene	ND	4.6
1,2-Dibromo-3-Chloropropane	ND	4.6
1,2,4-Trichlorobenzene	ND	4.6
Hexachlorobutadiene	ND	4.6
Naphthalene	ND	4.6
1,2,3-Trichlorobenzene	ND	4.6

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-124
1,2-Dichloroethane-d4	115	80-137
Toluene-d8	105	80-120
Bromofluorobenzene	91	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199461
Units:	ug/Kg	Analyzed:	06/07/13
Diln Fac:	1.000		

Type: BS Lab ID: QC692681

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	110.9	89	53-141
Isopropyl Ether (DIPE)	25.00	22.66	91	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	23.26	93	62-121
Methyl tert-Amyl Ether (TAME)	25.00	25.42	102	66-120
1,1-Dichloroethene	25.00	25.38	102	67-132
Benzene	25.00	28.13	113	77-126
Trichloroethene	25.00	26.29	105	76-127
Toluene	25.00	28.67	115	76-124
Chlorobenzene	25.00	27.31	109	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	89	79-127

Type: BSD Lab ID: QC692682

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	102.1	82	53-141	8	34
Isopropyl Ether (DIPE)	25.00	21.84	87	57-122	4	26
Ethyl tert-Butyl Ether (ETBE)	25.00	22.72	91	62-121	2	28
Methyl tert-Amyl Ether (TAME)	25.00	23.70	95	66-120	7	24
1,1-Dichloroethene	25.00	27.19	109	67-132	7	27
Benzene	25.00	26.67	107	77-126	5	20
Trichloroethene	25.00	26.84	107	76-127	2	22
Toluene	25.00	28.39	114	76-124	1	26
Chlorobenzene	25.00	26.52	106	76-120	3	21

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	90	79-127

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692683	Batch#:	199461
Matrix:	Soil	Analyzed:	06/07/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692683	Batch#:	199461
Matrix:	Soil	Analyzed:	06/07/13
Units:	ug/Kg		

Analyte	Result	RL
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	107	80-120
Bromofluorobenzene	94	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	199461
MSS Lab ID:	245931-001	Sampled:	06/04/13
Matrix:	Soil	Received:	06/06/13
Units:	ug/Kg	Analyzed:	06/07/13
Basis:	as received		

Type: MS Diln Fac: 0.9328
 Lab ID: QC692722

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<12.45	233.2	195.1	84	42-135
Isopropyl Ether (DIPE)	<0.8179	46.64	38.22	82	45-120
Ethyl tert-Butyl Ether (ETBE)	<0.6887	46.64	39.68	85	49-120
Methyl tert-Amyl Ether (TAME)	<0.5349	46.64	42.52	91	50-120
1,1-Dichloroethene	<0.8831	46.64	50.34	108	52-132
Benzene	<0.8480	46.64	48.15	103	54-121
Trichloroethene	<0.7849	46.64	46.70	100	46-138
Toluene	<0.6685	46.64	47.80	102	47-120
Chlorobenzene	<0.6448	46.64	44.86	96	41-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	116	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	92	79-127

Type: MSD Diln Fac: 0.9416
 Lab ID: QC692723

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	235.4	181.7	77	42-135	8	53
Isopropyl Ether (DIPE)	47.08	37.91	81	45-120	2	45
Ethyl tert-Butyl Ether (ETBE)	47.08	38.16	81	49-120	5	46
Methyl tert-Amyl Ether (TAME)	47.08	39.69	84	50-120	8	43
1,1-Dichloroethene	47.08	56.40	120	52-132	10	46
Benzene	47.08	50.30	107	54-121	3	43
Trichloroethene	47.08	50.41	107	46-138	7	50
Toluene	47.08	51.34	109	47-120	6	53
Chlorobenzene	47.08	47.45	101	41-120	5	50

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-124
1,2-Dichloroethane-d4	110	80-137
Toluene-d8	103	80-120
Bromofluorobenzene	93	79-127

RPD= Relative Percent Difference

California LUFT Metals			
Lab #:	245955	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	199484
Units:	mg/Kg	Sampled:	06/07/13
Basis:	as received	Received:	06/07/13
Diln Fac:	1.000	Prepared:	06/07/13

Field ID: EX1-G-6 Lab ID: 245955-001
 Type: SAMPLE Analyzed: 06/10/13

Analyte	Result	RL
Cadmium	0.22	0.22
Chromium	39	0.22
Lead	7.0	0.22
Nickel	57	0.22
Zinc	53	0.88

Field ID: EX1-H-6 Lab ID: 245955-002
 Type: SAMPLE Analyzed: 06/10/13

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	38	0.25
Lead	6.0	0.25
Nickel	40	0.25
Zinc	50	0.99

Type: BLANK Analyzed: 06/09/13
 Lab ID: QC692771

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	ND	1.0

ND= Not Detected
 RL= Reporting Limit



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 245921
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

Table with 2 columns: Sample ID and Lab ID. Rows include WO-COMP-A through G-COMP-D, WO-COMPOSITE, and G-COMPOSITE.

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: [Handwritten Signature]
Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/10/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 245921
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/06/13
Samples Received: 06/06/13

This data package contains sample and QC results for two four-point soil composites, requested for the above referenced project on 06/06/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

WO-COMPOSITE (lab # 245921-009) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

PCBs (EPA 8082):

All samples underwent sulfuric acid cleanup using EPA Method 3665A. All samples underwent sulfur cleanup using the copper option in EPA Method 3660B. No analytical problems were encountered.

Metals (EPA 6010B):

High recovery was observed for nickel in the MS of EX1-B-9 (lab # 245920-002); the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Subject: RE: AWR 13-05 - C&T Login Summary (245921)
From: "Tyson Fulmer" <tfulmer@erscorp.us>
Date: 6/7/2013 12:15 PM
To: "Tracy Babjar" <tracy.babjar@ctberk.com>
CC: <ybayram@awrcorp.net>

Yes please include the fuel oxy's, Pb scav and the naphthalene for this job#

Tyson Fulmer
 ERS Corp

From: Tracy Babjar [mailto:tracy.babjar@ctberk.com]
Sent: Friday, June 07, 2013 12:03 PM
To: Ccurtis@awrcorp.net; LLinderman@ERSCORP.US; SMichelson@awrcorp.net; Ybayram@ERSCORP.US; kdorsa@waterk.net; tfulmer@ERSCORP.US
Subject: AWR 13-05 - C&T Login Summary (245921)

This is the job that was just changed per our conversation. I need you to respond to this one please. Tracy

C&T Login Summary for 245921

Project: AWR 13-05 Site: 2250 Telegraph Lab Login #: 245921 Report Level: II Report Due: 06/10/13 PO#: C&T Proj Mgr: Tracy Babjar	Report To: Applied Water Resources 1600 Rivera Ave Suite 310 Walnut Creek, CA 94596 ATTN: Steve Michleson (925) 938-1600	Bill To: Applied Water Resources 1600 Rivera Ave Suite 310 Walnut Creek, CA 94596 ATTN: Steve Michleson (925) 938-1600
--	---	---

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	Comments
WO-COMP-A	001	06/06	06/06	Soil	HOLD		
WO-COMP-B	002	06/06	06/06	Soil	HOLD		
WO-COMP-C	003	06/06	06/06	Soil	HOLD		
WO-COMP-D	004	06/06	06/06	Soil	HOLD		
G-COMP-A	005	06/06	06/06	Soil	HOLD		
G-COMP-B	006	06/06	06/06	Soil	HOLD		
G-COMP-C	007	06/06	06/06	Soil	HOLD		
G-COMP-D	008	06/06	06/06	Soil	HOLD		
WO-COMPOSITE	009	06/06	06/06	Soil	8260X		COMP 245921-001, 002, 003 & 004
				Soil	8270		COMP 245921-001, 002, 003 & 004
				Soil	LUFT MET		COMP 245921-001, 002, 003 & 004
				Soil	PCB		COMP 245921-001, 002, 003 & 004
				Soil	SILICA GEL		
				Soil	TEHM		Silica Gel; COMP 245921-001, 002, 003 & 004
				Soil	TVH		COMP 245921-001, 002, 003 & 004
G-COMPOSITE	010	06/06	06/06	Soil	BTOX		MBTXE, GASOX and Naph.; COMP 245921-005, 006, 007 & 008
				Soil	ICP PREP		
				Soil	PB		COMP 245921-005, 006, 007 & 008
				Soil	SILICA GEL		
				Soil	TEHM		Silica Gel; COMP 245921-005, 006, 007 & 008
				Soil	TVH		COMP 245921-005, 006, 007 & 008

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 245921 Date Received 6/6/13 Number of coolers 1
Client AWR CORP Project 2250 TELEGRAPH (AWR 13-02)

Date Opened 6/6/13 By (print) TR (sign) Tina Raikan
Date Logged in [initials] By (print) [initials] (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C
Type of ice used: Wet, Blue/Gel, None Temp(°C)

- Samples Received on ice & cold without a temperature blank; temp. taken with IR gun
Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Total Volatile Hydrocarbons			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	199422
Units:	mg/Kg	Sampled:	06/06/13
Basis:	as received	Received:	06/06/13
Diln Fac:	1.000	Analyzed:	06/06/13

Field ID: WO-COMPOSITE Lab ID: 245921-009
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	64-139

Field ID: G-COMPOSITE Lab ID: 245921-010
 Type: SAMPLE

Analyte	Result	RL
Gasoline C7-C12	ND	0.93

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	64-139

Type: BLANK Lab ID: QC692519

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	64-139

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692518	Batch#:	199422
Matrix:	Soil	Analyzed:	06/06/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.024	102	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	WO-COMPOSITE	Diln Fac:	1.000
MSS Lab ID:	245921-009	Batch#:	199422
Matrix:	Soil	Sampled:	06/06/13
Units:	mg/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Type: MS Lab ID: QC692520

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.05881	10.75	8.944	83	42-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	64-139

Type: MSD Lab ID: QC692521

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.75	8.974	83	42-120	0	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	64-139

RPD= Relative Percent Difference

Total Extractable Hydrocarbons			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	199454
Units:	mg/Kg	Sampled:	06/06/13
Basis:	as received	Received:	06/06/13
Diln Fac:	1.000	Prepared:	06/07/13

Field ID: WO-COMPOSITE Analyzed: 06/09/13
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 245921-009

Analyte	Result	RL
Diesel C10-C24	33 Y	0.99
Motor Oil C24-C36	140	5.0

Surrogate	%REC	Limits
o-Terphenyl	116	62-136

Field ID: G-COMPOSITE Analyzed: 06/10/13
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 245921-010

Analyte	Result	RL
Diesel C10-C24	42 Y	1.0
Motor Oil C24-C36	200	5.0

Surrogate	%REC	Limits
o-Terphenyl	116	62-136

Type: BLANK Analyzed: 06/09/13
 Lab ID: QC692654 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	103	62-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692655	Batch#:	199454
Matrix:	Soil	Prepared:	06/07/13
Units:	mg/Kg	Analyzed:	06/09/13

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.04	45.68	91	62-130

Surrogate	%REC	Limits
o-Terphenyl	94	62-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	199454
MSS Lab ID:	245919-012	Sampled:	06/06/13
Matrix:	Soil	Received:	06/06/13
Units:	mg/Kg	Prepared:	06/07/13
Basis:	as received	Analyzed:	06/09/13
Diln Fac:	1.000		

Type: MS Lab ID: QC692656

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	1.406	49.76	48.13	94	39-148

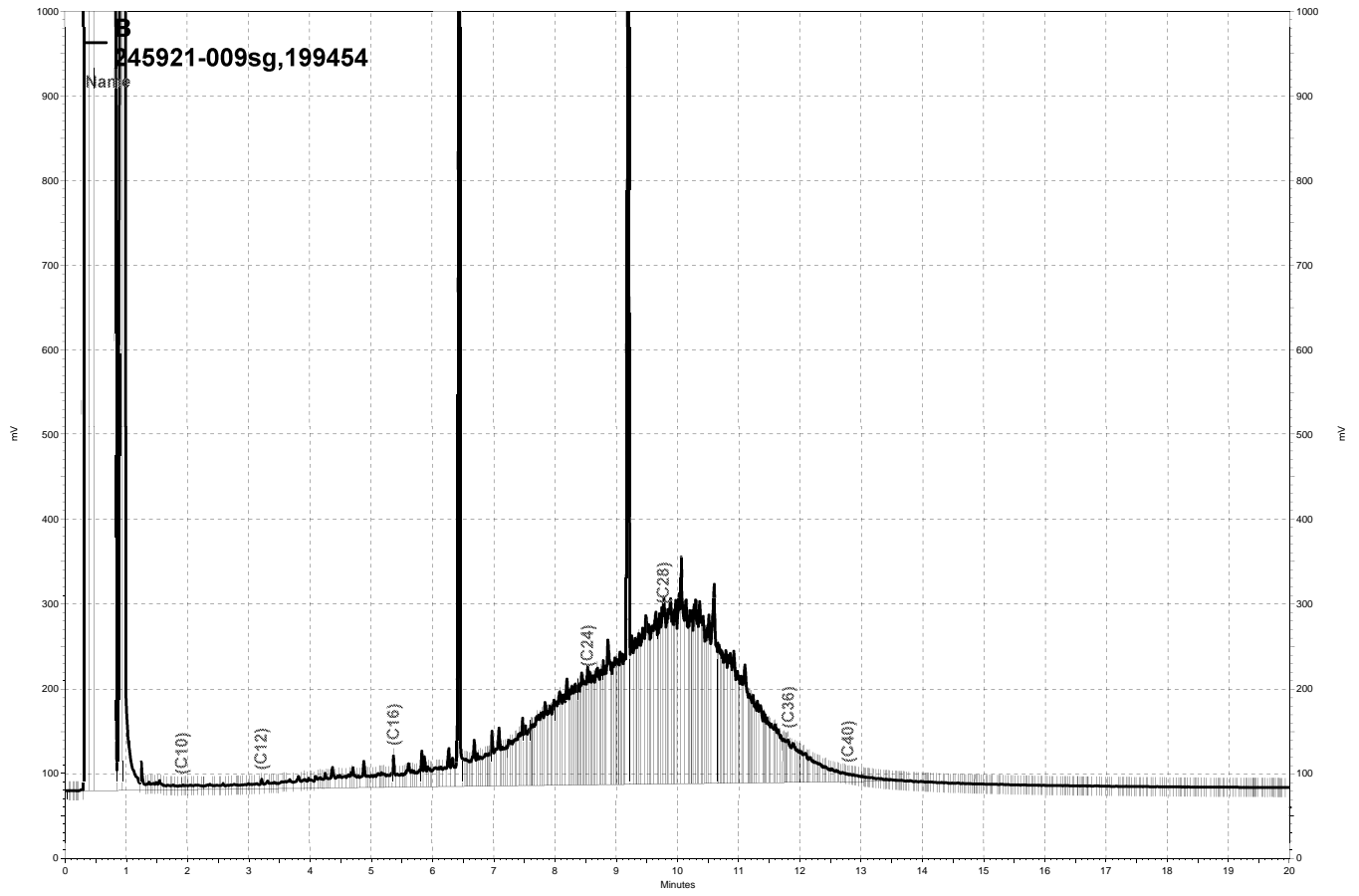
Surrogate	%REC	Limits
o-Terphenyl	102	62-136

Type: MSD Lab ID: QC692657

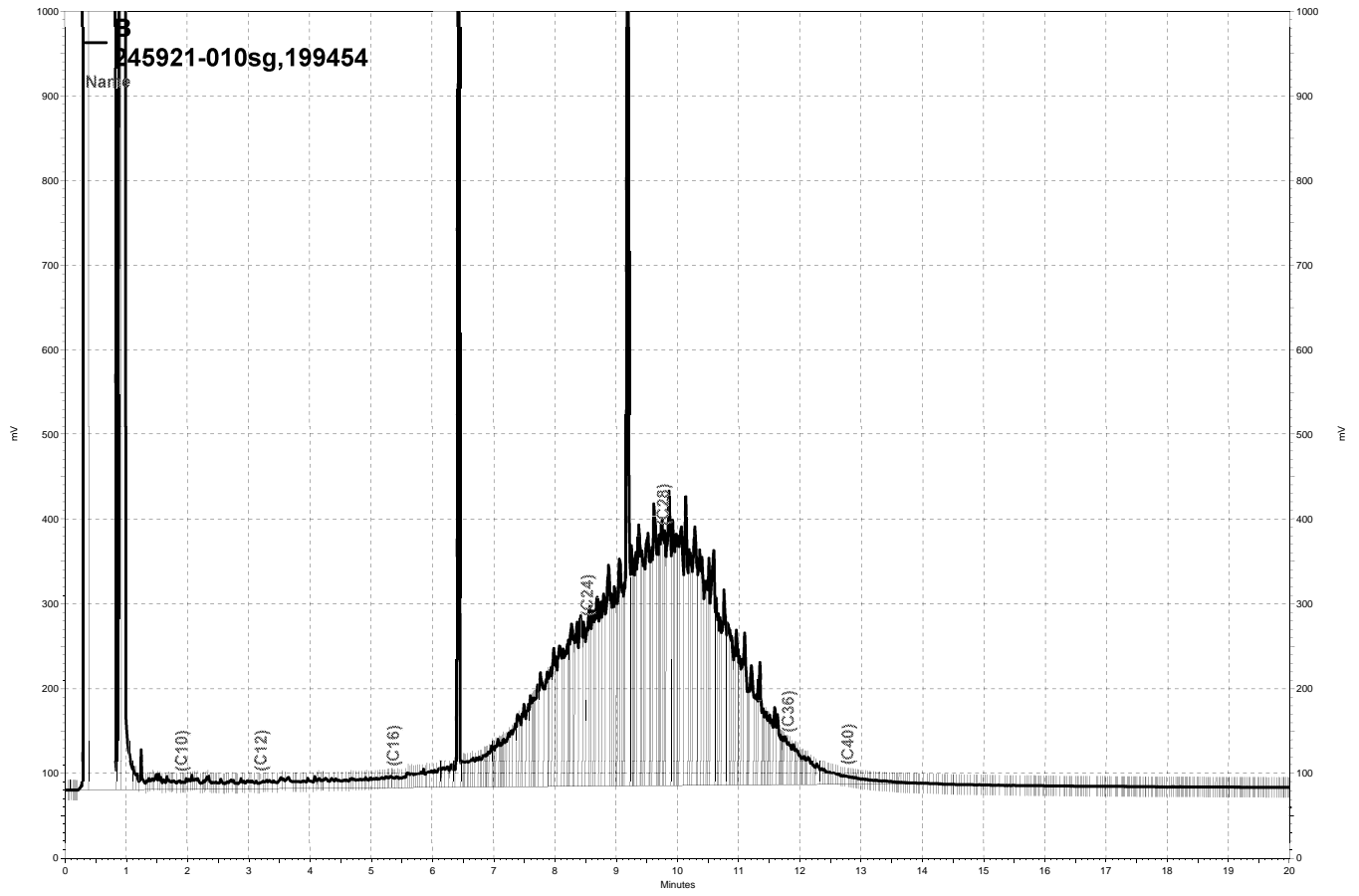
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.37	50.69	98	39-148	4	45

Surrogate	%REC	Limits
o-Terphenyl	104	62-136

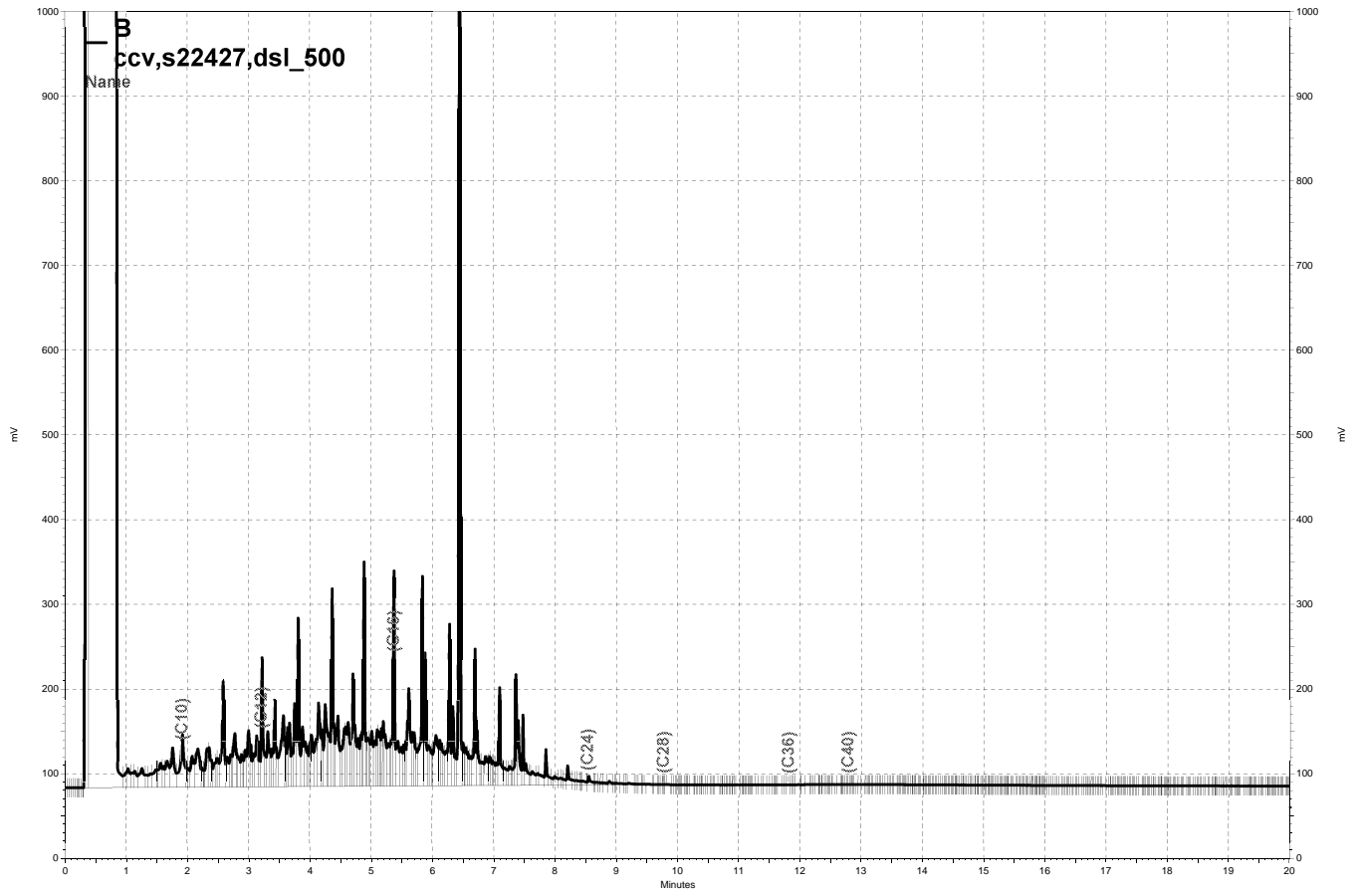
RPD= Relative Percent Difference



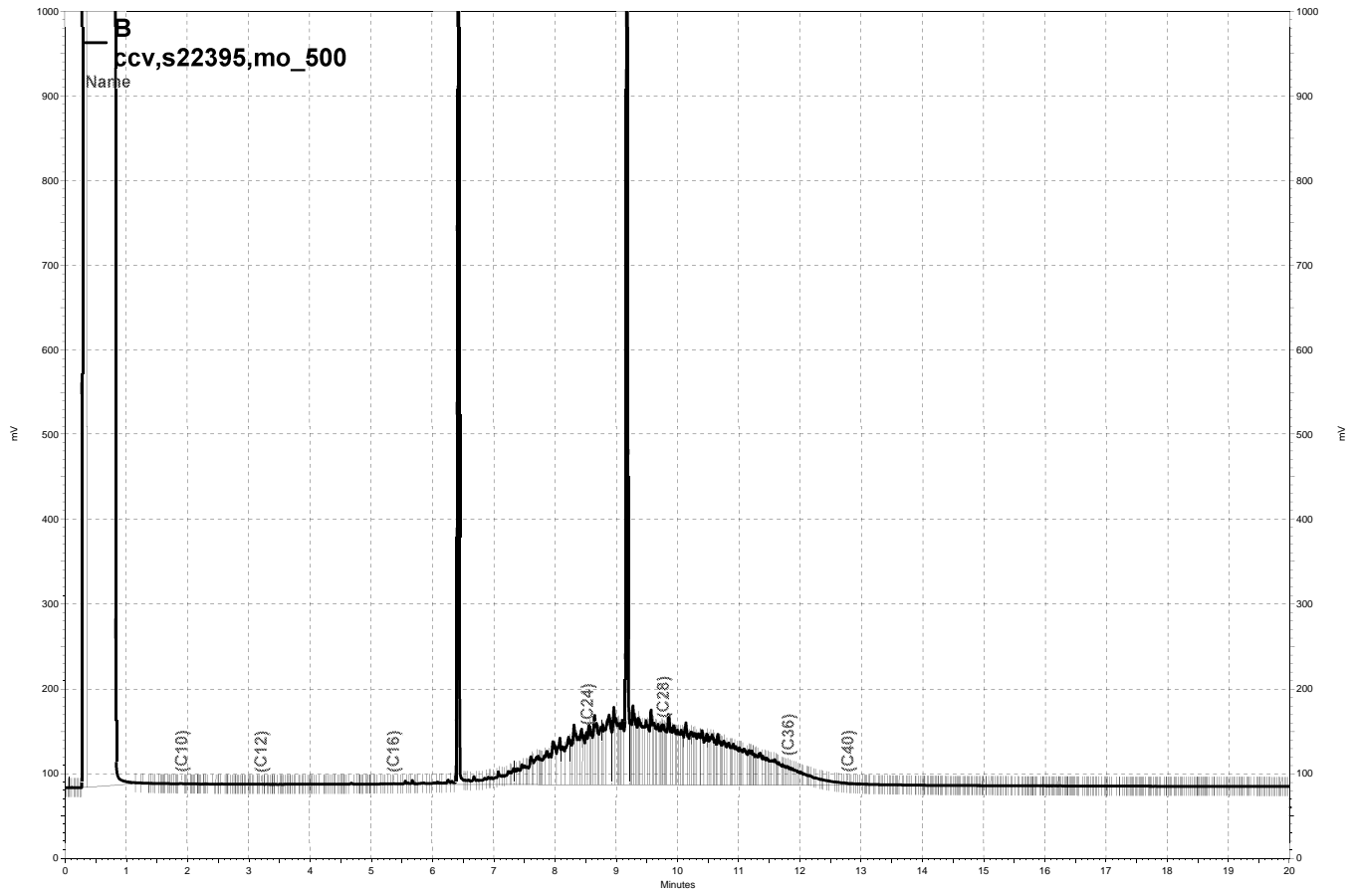
— \\Lims\gdrive\ezchrom\Projects\GC14B\Data\160b029, B



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\160b030, B



— \\Lims\gdrive\ezchrom\Projects\GC14B\Data\160b019, B



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\160b020, B

Purgeable Organics by GC/MS

Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	WO-COMPOSITE	Diln Fac:	0.9785
Lab ID:	245921-009	Batch#:	199461
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/07/13

Analyte	Result	RL
Freon 12	ND	9.8
tert-Butyl Alcohol (TBA)	ND	98
Chloromethane	ND	9.8
Isopropyl Ether (DIPE)	ND	4.9
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Ethyl tert-Butyl Ether (ETBE)	ND	4.9
Chloroethane	ND	9.8
Methyl tert-Amyl Ether (TAME)	ND	4.9
Trichlorofluoromethane	ND	4.9
Acetone	ND	20
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	ND	9.8
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.8
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.8
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
1,1,1,2-Tetrachloroethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Styrene	ND	4.9
Bromoform	ND	4.9
Isopropylbenzene	ND	4.9
1,1,2,2-Tetrachloroethane	ND	4.9
1,2,3-Trichloropropane	ND	4.9
Propylbenzene	ND	4.9

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	WO-COMPOSITE	Diln Fac:	0.9785
Lab ID:	245921-009	Batch#:	199461
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/07/13

Analyte	Result	RL
Bromobenzene	ND	4.9
1,3,5-Trimethylbenzene	ND	4.9
2-Chlorotoluene	ND	4.9
4-Chlorotoluene	ND	4.9
tert-Butylbenzene	ND	4.9
1,2,4-Trimethylbenzene	ND	4.9
sec-Butylbenzene	ND	4.9
para-Isopropyl Toluene	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
n-Butylbenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9
1,2-Dibromo-3-Chloropropane	ND	4.9
1,2,4-Trichlorobenzene	ND	4.9
Hexachlorobutadiene	ND	4.9
Naphthalene	ND	4.9
1,2,3-Trichlorobenzene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	114	80-137
Toluene-d8	103	80-120
Bromofluorobenzene	91	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	G-COMPOSITE	Diln Fac:	0.9785
Lab ID:	245921-010	Batch#:	199461
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/07/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	98
MTBE	ND	4.9
Isopropyl Ether (DIPE)	ND	4.9
Ethyl tert-Butyl Ether (ETBE)	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Methyl tert-Amyl Ether (TAME)	ND	4.9
Toluene	ND	4.9
1,2-Dibromoethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Naphthalene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-124
1,2-Dichloroethane-d4	112	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	92	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199461
Units:	ug/Kg	Analyzed:	06/07/13
Diln Fac:	1.000		

Type: BS Lab ID: QC692681

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	110.9	89	53-141
Isopropyl Ether (DIPE)	25.00	22.66	91	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	23.26	93	62-121
Methyl tert-Amyl Ether (TAME)	25.00	25.42	102	66-120
1,1-Dichloroethene	25.00	25.38	102	67-132
Benzene	25.00	28.13	113	77-126
Trichloroethene	25.00	26.29	105	76-127
Toluene	25.00	28.67	115	76-124
Chlorobenzene	25.00	27.31	109	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	89	79-127

Type: BSD Lab ID: QC692682

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	102.1	82	53-141	8	34
Isopropyl Ether (DIPE)	25.00	21.84	87	57-122	4	26
Ethyl tert-Butyl Ether (ETBE)	25.00	22.72	91	62-121	2	28
Methyl tert-Amyl Ether (TAME)	25.00	23.70	95	66-120	7	24
1,1-Dichloroethene	25.00	27.19	109	67-132	7	27
Benzene	25.00	26.67	107	77-126	5	20
Trichloroethene	25.00	26.84	107	76-127	2	22
Toluene	25.00	28.39	114	76-124	1	26
Chlorobenzene	25.00	26.52	106	76-120	3	21

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	90	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199461
Units:	ug/Kg	Analyzed:	06/07/13
Diln Fac:	1.000		

Type: BS Lab ID: QC692681

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	110.9	89	53-141
MTBE	25.00	22.55	90	65-121
Isopropyl Ether (DIPE)	25.00	22.66	91	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	23.26	93	62-121
1,2-Dichloroethane	25.00	29.09	116	74-133
Benzene	25.00	28.13	113	77-126
Methyl tert-Amyl Ether (TAME)	25.00	25.42	102	66-120
Toluene	25.00	28.67	115	76-124
1,2-Dibromoethane	25.00	27.86	111	78-120
Ethylbenzene	25.00	26.35	105	76-127
m,p-Xylenes	50.00	55.75	112	74-126
o-Xylene	25.00	26.78	107	70-120

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	111	80-120
Bromofluorobenzene	89	79-127

Type: BSD Lab ID: QC692682

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	102.1	82	53-141	8	34
MTBE	25.00	22.36	89	65-121	1	22
Isopropyl Ether (DIPE)	25.00	21.84	87	57-122	4	26
Ethyl tert-Butyl Ether (ETBE)	25.00	22.72	91	62-121	2	28
1,2-Dichloroethane	25.00	28.15	113	74-133	3	23
Benzene	25.00	26.67	107	77-126	5	20
Methyl tert-Amyl Ether (TAME)	25.00	23.70	95	66-120	7	24
Toluene	25.00	28.39	114	76-124	1	26
1,2-Dibromoethane	25.00	26.46	106	78-120	5	20
Ethylbenzene	25.00	25.85	103	76-127	2	24
m,p-Xylenes	50.00	53.76	108	74-126	4	24
o-Xylene	25.00	26.15	105	70-120	2	22

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	90	79-127

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692683	Batch#:	199461
Matrix:	Soil	Analyzed:	06/07/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692683	Batch#:	199461
Matrix:	Soil	Analyzed:	06/07/13
Units:	ug/Kg		

Analyte	Result	RL
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	107	80-120
Bromofluorobenzene	94	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692683	Batch#:	199461
Matrix:	Soil	Analyzed:	06/07/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	107	80-120
Bromofluorobenzene	94	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	199461
MSS Lab ID:	245931-001	Sampled:	06/04/13
Matrix:	Soil	Received:	06/06/13
Units:	ug/Kg	Analyzed:	06/07/13
Basis:	as received		

Type: MS Diln Fac: 0.9328
 Lab ID: QC692722

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<12.45	233.2	195.1	84	42-135
Isopropyl Ether (DIPE)	<0.8179	46.64	38.22	82	45-120
Ethyl tert-Butyl Ether (ETBE)	<0.6887	46.64	39.68	85	49-120
Methyl tert-Amyl Ether (TAME)	<0.5349	46.64	42.52	91	50-120
1,1-Dichloroethene	<0.8831	46.64	50.34	108	52-132
Benzene	<0.8480	46.64	48.15	103	54-121
Trichloroethene	<0.7849	46.64	46.70	100	46-138
Toluene	<0.6685	46.64	47.80	102	47-120
Chlorobenzene	<0.6448	46.64	44.86	96	41-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	116	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	92	79-127

Type: MSD Diln Fac: 0.9416
 Lab ID: QC692723

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	235.4	181.7	77	42-135	8	53
Isopropyl Ether (DIPE)	47.08	37.91	81	45-120	2	45
Ethyl tert-Butyl Ether (ETBE)	47.08	38.16	81	49-120	5	46
Methyl tert-Amyl Ether (TAME)	47.08	39.69	84	50-120	8	43
1,1-Dichloroethene	47.08	56.40	120	52-132	10	46
Benzene	47.08	50.30	107	54-121	3	43
Trichloroethene	47.08	50.41	107	46-138	7	50
Toluene	47.08	51.34	109	47-120	6	53
Chlorobenzene	47.08	47.45	101	41-120	5	50

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-124
1,2-Dichloroethane-d4	110	80-137
Toluene-d8	103	80-120
Bromofluorobenzene	93	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5030B
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	199461
MSS Lab ID:	245931-001	Sampled:	06/04/13
Matrix:	Soil	Received:	06/06/13
Units:	ug/Kg	Analyzed:	06/07/13
Basis:	as received		

Type: MS Diln Fac: 0.9328
 Lab ID: QC692722

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<12.45	233.2	195.1	84	42-135
MTBE	<0.9402	46.64	39.51	85	51-120
Isopropyl Ether (DIPE)	<0.8179	46.64	38.22	82	45-120
Ethyl tert-Butyl Ether (ETBE)	<0.6887	46.64	39.68	85	49-120
1,2-Dichloroethane	<0.8706	46.64	49.04	105	53-122
Benzene	<0.8480	46.64	48.15	103	54-121
Methyl tert-Amyl Ether (TAME)	<0.5349	46.64	42.52	91	50-120
Toluene	<0.6685	46.64	47.80	102	47-120
1,2-Dibromoethane	<0.6110	46.64	42.44	91	50-120
Ethylbenzene	<0.6380	46.64	45.94	99	42-122
m,p-Xylenes	<1.176	93.28	93.21	100	39-120
o-Xylene	<0.5884	46.64	44.51	95	39-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	116	80-137
Toluene-d8	109	80-120
Bromofluorobenzene	92	79-127

Type: MSD Diln Fac: 0.9416
 Lab ID: QC692723

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	235.4	181.7	77	42-135	8	53
MTBE	47.08	37.40	79	51-120	6	43
Isopropyl Ether (DIPE)	47.08	37.91	81	45-120	2	45
Ethyl tert-Butyl Ether (ETBE)	47.08	38.16	81	49-120	5	46
1,2-Dichloroethane	47.08	49.96	106	53-122	1	41
Benzene	47.08	50.30	107	54-121	3	43
Methyl tert-Amyl Ether (TAME)	47.08	39.69	84	50-120	8	43
Toluene	47.08	51.34	109	47-120	6	53
1,2-Dibromoethane	47.08	43.71	93	50-120	2	44
Ethylbenzene	47.08	47.86	102	42-122	3	52
m,p-Xylenes	94.16	97.39	103	39-120	3	54
o-Xylene	47.08	46.66	99	39-120	4	54

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-124
1,2-Dichloroethane-d4	110	80-137
Toluene-d8	103	80-120
Bromofluorobenzene	93	79-127

RPD= Relative Percent Difference

Semivolatile Organics by GC/MS			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C
Field ID:	WO-COMPOSITE	Batch#:	199457
Lab ID:	245921-009	Sampled:	06/06/13
Matrix:	Soil	Received:	06/06/13
Units:	ug/Kg	Prepared:	06/07/13
Basis:	as received	Analyzed:	06/07/13
Diln Fac:	4.000		

Analyte	Result	RL
N-Nitrosodimethylamine	ND	1,400
Phenol	ND	1,400
bis(2-Chloroethyl)ether	ND	1,400
2-Chlorophenol	ND	1,400
1,3-Dichlorobenzene	ND	1,400
1,4-Dichlorobenzene	ND	1,400
Benzyl alcohol	ND	1,400
1,2-Dichlorobenzene	ND	1,400
2-Methylphenol	ND	1,400
bis(2-Chloroisopropyl) ether	ND	1,400
4-Methylphenol	ND	1,400
N-Nitroso-di-n-propylamine	ND	1,400
Hexachloroethane	ND	1,400
Nitrobenzene	ND	1,400
Isophorone	ND	1,400
2-Nitrophenol	ND	2,700
2,4-Dimethylphenol	ND	1,400
Benzoic acid	ND	6,800
bis(2-Chloroethoxy)methane	ND	1,400
2,4-Dichlorophenol	ND	1,400
1,2,4-Trichlorobenzene	ND	1,400
Naphthalene	ND	270
4-Chloroaniline	ND	1,400
Hexachlorobutadiene	ND	1,400
4-Chloro-3-methylphenol	ND	1,400
2-Methylnaphthalene	ND	270
Hexachlorocyclopentadiene	ND	2,700
2,4,6-Trichlorophenol	ND	1,400
2,4,5-Trichlorophenol	ND	1,400
2-Chloronaphthalene	ND	1,400
2-Nitroaniline	ND	2,700
Dimethylphthalate	ND	1,400
Acenaphthylene	ND	270
2,6-Dinitrotoluene	ND	1,400
3-Nitroaniline	ND	2,700
Acenaphthene	ND	270
2,4-Dinitrophenol	ND	2,700
4-Nitrophenol	ND	2,700
Dibenzofuran	ND	1,400
2,4-Dinitrotoluene	ND	1,400
Diethylphthalate	ND	1,400
Fluorene	ND	270
4-Chlorophenyl-phenylether	ND	1,400
4-Nitroaniline	ND	2,700
4,6-Dinitro-2-methylphenol	ND	2,700
N-Nitrosodiphenylamine	ND	1,400
Azobenzene	ND	1,400
4-Bromophenyl-phenylether	ND	1,400
Hexachlorobenzene	ND	1,400
Pentachlorophenol	ND	2,700
Phenanthrene	ND	270
Anthracene	ND	270
Di-n-butylphthalate	ND	1,400

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C
Field ID:	WO-COMPOSITE	Batch#:	199457
Lab ID:	245921-009	Sampled:	06/06/13
Matrix:	Soil	Received:	06/06/13
Units:	ug/Kg	Prepared:	06/07/13
Basis:	as received	Analyzed:	06/07/13
Diln Fac:	4.000		

Analyte	Result	RL
Fluoranthene	ND	270
Pyrene	ND	270
Butylbenzylphthalate	ND	1,400
3,3'-Dichlorobenzidine	ND	2,700
Benzo(a)anthracene	ND	270
Chrysene	ND	270
bis(2-Ethylhexyl)phthalate	ND	1,400
Di-n-octylphthalate	ND	1,400
Benzo(b)fluoranthene	ND	270
Benzo(k)fluoranthene	ND	270
Benzo(a)pyrene	ND	270
Indeno(1,2,3-cd)pyrene	ND	270
Dibenz(a,h)anthracene	ND	270
Benzo(g,h,i)perylene	ND	270

Surrogate	%REC	Limits
2-Fluorophenol	85	35-120
Phenol-d5	68	39-120
2,4,6-Tribromophenol	70	39-120
Nitrobenzene-d5	76	49-120
2-Fluorobiphenyl	92	52-120
Terphenyl-d14	67	48-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Semivolatile Organics by GC/MS			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692665	Batch#:	199457
Matrix:	Soil	Prepared:	06/07/13
Units:	ug/Kg	Analyzed:	06/07/13

Analyte	Result	RL
N-Nitrosodimethylamine	ND	340
Phenol	ND	340
bis(2-Chloroethyl)ether	ND	340
2-Chlorophenol	ND	340
1,3-Dichlorobenzene	ND	340
1,4-Dichlorobenzene	ND	340
Benzyl alcohol	ND	340
1,2-Dichlorobenzene	ND	340
2-Methylphenol	ND	340
bis(2-Chloroisopropyl) ether	ND	340
4-Methylphenol	ND	340
N-Nitroso-di-n-propylamine	ND	340
Hexachloroethane	ND	340
Nitrobenzene	ND	340
Isophorone	ND	340
2-Nitrophenol	ND	680
2,4-Dimethylphenol	ND	340
Benzoic acid	ND	1,700
bis(2-Chloroethoxy)methane	ND	340
2,4-Dichlorophenol	ND	340
1,2,4-Trichlorobenzene	ND	340
Naphthalene	ND	68
4-Chloroaniline	ND	340
Hexachlorobutadiene	ND	340
4-Chloro-3-methylphenol	ND	340
2-Methylnaphthalene	ND	68
Hexachlorocyclopentadiene	ND	680
2,4,6-Trichlorophenol	ND	340
2,4,5-Trichlorophenol	ND	340
2-Chloronaphthalene	ND	340
2-Nitroaniline	ND	680
Dimethylphthalate	ND	340
Acenaphthylene	ND	68
2,6-Dinitrotoluene	ND	340
3-Nitroaniline	ND	680
Acenaphthene	ND	68
2,4-Dinitrophenol	ND	680
4-Nitrophenol	ND	680
Dibenzofuran	ND	340
2,4-Dinitrotoluene	ND	340
Diethylphthalate	ND	340
Fluorene	ND	68
4-Chlorophenyl-phenylether	ND	340
4-Nitroaniline	ND	680
4,6-Dinitro-2-methylphenol	ND	680
N-Nitrosodiphenylamine	ND	340
Azobenzene	ND	340
4-Bromophenyl-phenylether	ND	340
Hexachlorobenzene	ND	340
Pentachlorophenol	ND	680
Phenanthrene	ND	68
Anthracene	ND	68
Di-n-butylphthalate	ND	340
Fluoranthene	ND	68

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Semivolatile Organics by GC/MS			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692665	Batch#:	199457
Matrix:	Soil	Prepared:	06/07/13
Units:	ug/Kg	Analyzed:	06/07/13

Analyte	Result	RL
Pyrene	ND	68
Butylbenzylphthalate	ND	340
3,3'-Dichlorobenzidine	ND	680
Benzo(a)anthracene	ND	68
Chrysene	ND	68
bis(2-Ethylhexyl)phthalate	ND	340
Di-n-octylphthalate	ND	340
Benzo(b)fluoranthene	ND	68
Benzo(k)fluoranthene	ND	68
Benzo(a)pyrene	ND	68
Indeno(1,2,3-cd)pyrene	ND	68
Dibenz(a,h)anthracene	ND	68
Benzo(g,h,i)perylene	ND	68

Surrogate	%REC	Limits
2-Fluorophenol	79	35-120
Phenol-d5	76	39-120
2,4,6-Tribromophenol	85	39-120
Nitrobenzene-d5	78	49-120
2-Fluorobiphenyl	80	52-120
Terphenyl-d14	67	48-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Semivolatile Organics by GC/MS			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C
Type:	LCS	Diln Fac:	2.000
Lab ID:	QC692666	Batch#:	199457
Matrix:	Soil	Prepared:	06/07/13
Units:	ug/Kg	Analyzed:	06/07/13

Analyte	Spiked	Result	%REC	Limits
Phenol	2,646	2,566	97	48-120
2-Chlorophenol	2,646	2,543	96	51-120
1,4-Dichlorobenzene	2,646	2,557	97	54-120
N-Nitroso-di-n-propylamine	2,646	2,571	97	35-120
1,2,4-Trichlorobenzene	2,646	2,653	100	56-120
4-Chloro-3-methylphenol	2,646	2,700	102	61-120
Acenaphthene	992.1	998.1	101	57-120
4-Nitrophenol	2,646	2,528	96	54-120
2,4-Dinitrotoluene	2,646	2,684	101	58-120
Pentachlorophenol	2,646	2,725	103	42-120
Pyrene	992.1	1,036	104	60-120

Surrogate	%REC	Limits
2-Fluorophenol	93	35-120
Phenol-d5	94	39-120
2,4,6-Tribromophenol	106	39-120
Nitrobenzene-d5	90	49-120
2-Fluorobiphenyl	90	52-120
Terphenyl-d14	86	48-120

Batch QC Report

Semivolatile Organics by GC/MS			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C
Field ID:	ZZZZZZZZZZ	Batch#:	199457
MSS Lab ID:	245884-001	Sampled:	06/05/13
Matrix:	Soil	Received:	06/05/13
Units:	ug/Kg	Prepared:	06/07/13
Basis:	as received	Analyzed:	06/07/13
Diln Fac:	2.000		

Type: MS Lab ID: QC692667

Analyte	MSS Result	Spiked	Result	%REC	Limits
Phenol	<93.99	2,711	2,630	97	51-120
2-Chlorophenol	<110.8	2,711	2,449	90	52-120
1,4-Dichlorobenzene	<29.69	2,711	2,662	98	55-120
N-Nitroso-di-n-propylamine	<100.1	2,711	2,807	104	45-120
1,2,4-Trichlorobenzene	<26.00	2,711	2,583	95	57-120
4-Chloro-3-methylphenol	<28.45	2,711	2,431	90	60-120
Acenaphthene	<22.50	1,017	861.7	85	58-120
4-Nitrophenol	<104.9	2,711	2,290	84	49-120
2,4-Dinitrotoluene	<19.73	2,711	2,326	86	58-120
Pentachlorophenol	<124.5	2,711	1,520	56	23-120
Pyrene	<23.60	1,017	812.6	80	53-122

Surrogate	%REC	Limits
2-Fluorophenol	80	35-120
Phenol-d5	87	39-120
2,4,6-Tribromophenol	81	39-120
Nitrobenzene-d5	86	49-120
2-Fluorobiphenyl	89	52-120
Terphenyl-d14	70	48-120

Type: MSD Lab ID: QC692668

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Phenol	2,660	2,611	98	51-120	1	32
2-Chlorophenol	2,660	2,592	97	52-120	8	32
1,4-Dichlorobenzene	2,660	2,606	98	55-120	0	35
N-Nitroso-di-n-propylamine	2,660	2,776	104	45-120	1	35
1,2,4-Trichlorobenzene	2,660	2,530	95	57-120	0	31
4-Chloro-3-methylphenol	2,660	2,201	83	60-120	8	30
Acenaphthene	997.7	886.1	89	58-120	5	36
4-Nitrophenol	2,660	2,292	86	49-120	2	39
2,4-Dinitrotoluene	2,660	2,255	85	58-120	1	28
Pentachlorophenol	2,660	1,553	58	23-120	4	47
Pyrene	997.7	814.5	82	53-122	2	44

Surrogate	%REC	Limits
2-Fluorophenol	81	35-120
Phenol-d5	90	39-120
2,4,6-Tribromophenol	90	39-120
Nitrobenzene-d5	87	49-120
2-Fluorobiphenyl	90	52-120
Terphenyl-d14	71	48-120

RPD= Relative Percent Difference

Polychlorinated Biphenyls (PCBs)			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8082
Field ID:	WO-COMPOSITE	Batch#:	199455
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Prepared:	06/07/13
Diln Fac:	1.000	Analyzed:	06/08/13

Type: SAMPLE Lab ID: 245921-009

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	111	66-142
Decachlorobiphenyl	75	43-139

Type: BLANK Lab ID: QC692658

Analyte	Result	RL
Aroclor-1016	ND	12
Aroclor-1221	ND	24
Aroclor-1232	ND	12
Aroclor-1242	ND	12
Aroclor-1248	ND	12
Aroclor-1254	ND	12
Aroclor-1260	ND	12

Surrogate	%REC	Limits
TCMX	130	66-142
Decachlorobiphenyl	98	43-139

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8082
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692659	Batch#:	199455
Matrix:	Soil	Prepared:	06/07/13
Units:	ug/Kg	Analyzed:	06/10/13

Analyte	Spiked	Result	%REC	Limits
Aroclor-1016	167.8	182.3	109	64-143
Aroclor-1260	167.8	210.3	125	58-146

Surrogate	%REC	Limits
TCMX	120	66-142
Decachlorobiphenyl	88	43-139

Batch QC Report

Polychlorinated Biphenyls (PCBs)			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8082
Field ID:	ZZZZZZZZZZ	Batch#:	199455
MSS Lab ID:	245907-009	Sampled:	06/06/13
Matrix:	Soil	Received:	06/06/13
Units:	ug/Kg	Prepared:	06/07/13
Basis:	as received	Analyzed:	06/10/13
Diln Fac:	1.000		

Type: MS Lab ID: QC692660

Analyte	MSS Result	Spiked	Result	%REC	Limits
Aroclor-1016	<1.770	168.7	197.6	117	58-155
Aroclor-1260	15.16	168.7	224.3	124	35-159

Surrogate	%REC	Limits
TCMX	122	66-142
Decachlorobiphenyl	94	43-139

Type: MSD Lab ID: QC692661

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Aroclor-1016	167.7	193.5	115	58-155	2	44
Aroclor-1260	167.7	213.3	118	35-159	4	53

Surrogate	%REC	Limits
TCMX	118	66-142
Decachlorobiphenyl	92	43-139

RPD= Relative Percent Difference

California LUFT Metals			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Field ID:	WO-COMPOSITE	Batch#:	199430
Matrix:	Soil	Sampled:	06/06/13
Units:	mg/Kg	Received:	06/06/13
Basis:	as received	Prepared:	06/06/13
Diln Fac:	1.000	Analyzed:	06/07/13

Type: SAMPLE Lab ID: 245921-009

Analyte	Result	RL
Cadmium	0.43	0.23
Chromium	29	0.23
Lead	100	0.23
Nickel	24	0.23
Zinc	170	0.93

Type: BLANK Lab ID: QC692548

Analyte	Result	RL
Cadmium	ND	0.25
Chromium	ND	0.25
Lead	ND	0.25
Nickel	ND	0.25
Zinc	ND	1.0

ND= Not Detected
 RL= Reporting Limit

Lead			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	199430
Matrix:	Soil	Sampled:	06/06/13
Units:	mg/Kg	Received:	06/06/13
Basis:	as received	Prepared:	06/06/13
Diln Fac:	1.000	Analyzed:	06/07/13

Field ID	Type	Lab ID	Result	RL
WO-COMPOSITE	SAMPLE	245921-009	100	0.23
G-COMPOSITE	SAMPLE	245921-010	17	0.23
	BLANK	QC692548	ND	0.25

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

California LUFT Metals			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Matrix:	Soil	Batch#:	199430
Units:	mg/Kg	Prepared:	06/06/13
Diln Fac:	1.000	Analyzed:	06/07/13

Type: BS Lab ID: QC692549

Analyte	Spiked	Result	%REC	Limits
Cadmium	50.00	49.83	100	80-120
Chromium	50.00	47.97	96	80-120
Lead	50.00	46.53	93	80-120
Nickel	50.00	46.75	94	80-120
Zinc	50.00	48.31	97	80-120

Type: BSD Lab ID: QC692550

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	50.00	49.36	99	80-120	1	20
Chromium	50.00	47.71	95	80-120	1	20
Lead	50.00	46.11	92	80-120	1	22
Nickel	50.00	46.44	93	80-120	1	20
Zinc	50.00	47.96	96	80-120	1	20

RPD= Relative Percent Difference

Batch QC Report

Lead			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	EX1-B-9	Batch#:	199430
MSS Lab ID:	245920-002	Sampled:	06/06/13
Matrix:	Soil	Received:	06/06/13
Units:	mg/Kg	Prepared:	06/06/13
Basis:	as received	Analyzed:	06/07/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC692549		50.00	46.53	93	80-120		
BSD	QC692550		50.00	46.11	92	80-120	1	22
MS	QC692551	5.589	49.50	46.21	82	52-120		
MSD	QC692552		49.02	45.88	82	52-120	0	51

RPD= Relative Percent Difference

Batch QC Report

California LUFT Metals			
Lab #:	245921	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Field ID:	EX1-B-9	Batch#:	199430
MSS Lab ID:	245920-002	Sampled:	06/06/13
Matrix:	Soil	Received:	06/06/13
Units:	mg/Kg	Prepared:	06/06/13
Basis:	as received	Analyzed:	06/07/13
Diln Fac:	1.000		

Type: MS Lab ID: QC692551

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	0.3943	49.50	42.37	85	69-120
Chromium	40.77	49.50	87.30	94	60-122
Lead	5.589	49.50	46.21	82	52-120
Nickel	54.14	49.50	139.8	173 *	45-134
Zinc	54.14	49.50	97.88	88	38-146

Type: MSD Lab ID: QC692552

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	49.02	42.01	85	69-120	0	23
Chromium	49.02	83.45	87	60-122	4	34
Lead	49.02	45.88	82	52-120	0	51
Nickel	49.02	110.9	116	45-134	23	38
Zinc	49.02	94.85	83	38-146	3	36

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.
Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 245920
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
EX1-E-7	245920-001
EX1-B-9	245920-002
EX1-C-9	245920-003
EX1-D-9	245920-004
EX1-E-9	245920-005
EX1-A-9	245920-006
EX1-F-9	245920-007

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/07/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 245920
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/06/13
Samples Received: 06/06/13

This data package contains sample and QC results for seven soil samples, requested for the above referenced project on 06/06/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

Matrix spikes were not performed for this analysis in batch 199411 due to insufficient sample amount. No other analytical problems were encountered.

Metals (EPA 6010B):

High recovery was observed for nickel in the MS of EX1-B-9 (lab # 245920-002); the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Subject: RE: AWR 13-05 - C&T Login Summary (245920)
From: Tyson Fulmer <tfulmer@awrcorp.net>
Date: 6/6/2013 6:05 PM
To: Tracy Babjar <tracy.babjar@ctberk.com>
CC: "will.rice@ctberk.com" <will.rice@ctberk.com>, Yola Bayram <ybayram@awrcorp.net>

Will and Tracy,
 Please do not analyze any of these samples for PAHs by 8270. Please send a revised login summary. Thanks,

Tyson Fulmer
 AWR Corp

From: Tracy Babjar [mailto:tracy.babjar@ctberk.com]
Sent: Thursday, June 06, 2013 4:24 PM
To: Ccurtis@awrcorp.net; LLinderman@ERSCORP.US; SMichelson@awrcorp.net; SMichelson@ERSCORP.US; Ybayram@ERSCORP.US; kdorsa@waterk.net; tfulmer@ERSCORP.US
Subject: AWR 13-05 - C&T Login Summary (245920)

C&T Login Summary for 245920

<p>Project: AWR 13-05 Site: 2250 Telegraph Lab Login #: 245920 Report Level: II Report Due: 06/07/13 PO#: C&T Proj Mgr: Tracy Babjar</p>	<p>Report To: Applied Water Resources 1600 Rivera Ave Suite 310 Walnut Creek, CA 94596 ATTN: Steve Michleson (925) 938-1600</p>	<p>Bill To: Applied Water Resources 1600 Rivera Ave Suite 310 Walnut Creek, CA 94596 ATTN: Steve Michleson (925) 938-1600</p>
---	--	--

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	Comments
EX1-E-7	001	06/06	06/06	Soil	SILICA GEL		
				Soil	TEHM		Silica Gel
EX1-B-9	002	06/06	06/06	Soil	8270-SIM		PAHs = 8270-SIM
				Soil	E8260		BTOX- (MBTXE, Gasox & Napthalene)
				Soil	EBTOX		BTOX- (MBTXE, Gasox & Napthalene)
				Soil	ETVH		
				Soil	LUFT MET		
				Soil	SILICA GEL		
				Soil	TEHM		Silica Gel
EX1-C-9	003	06/06	06/06	Soil	8270-SIM		PAHs = 8270-SIM
				Soil	E8260		BTOX- (MBTXE, Gasox & Napthalene)
				Soil	EBTOX		BTOX- (MBTXE, Gasox & Napthalene)
				Soil	ETVH		

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 245920 Date Received 6/6/13 Number of coolers 1
Client AWR CORP Project 2250 TELEGRAPH (AWR 13-02)

Date Opened 6/6/13 By (print) 6/6/13 TR (sign) Tina Rankin
Date Logged in [initials] By (print) [initials] (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Cloth material, Foam blocks, Cardboard, Bags, Styrofoam, None, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet Blue/Gel None Temp(°C)

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO

If YES, what time were they transferred to freezer? 1500 for 10 cores

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Batch#:	199418

Type: BS Analyzed: 06/06/13
 Lab ID: QC692501

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9218	92	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	96	64-139

Type: BSD Analyzed: 06/07/13
 Lab ID: QC692502

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2.000	1.759	88	80-120	5	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

RPD= Relative Percent Difference

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692523	Batch#:	199423
Matrix:	Soil	Prepared:	06/06/13
Units:	mg/Kg	Analyzed:	06/07/13

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.81	43.07	86	62-130

Surrogate	%REC	Limits
o-Terphenyl	94	62-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	199423
MSS Lab ID:	245924-002	Sampled:	06/06/13
Matrix:	Soil	Received:	06/06/13
Units:	mg/Kg	Prepared:	06/06/13
Basis:	as received	Analyzed:	06/07/13
Diln Fac:	3.000		

Type: MS Lab ID: QC692524

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	37.52	49.74	93.40	112	39-148

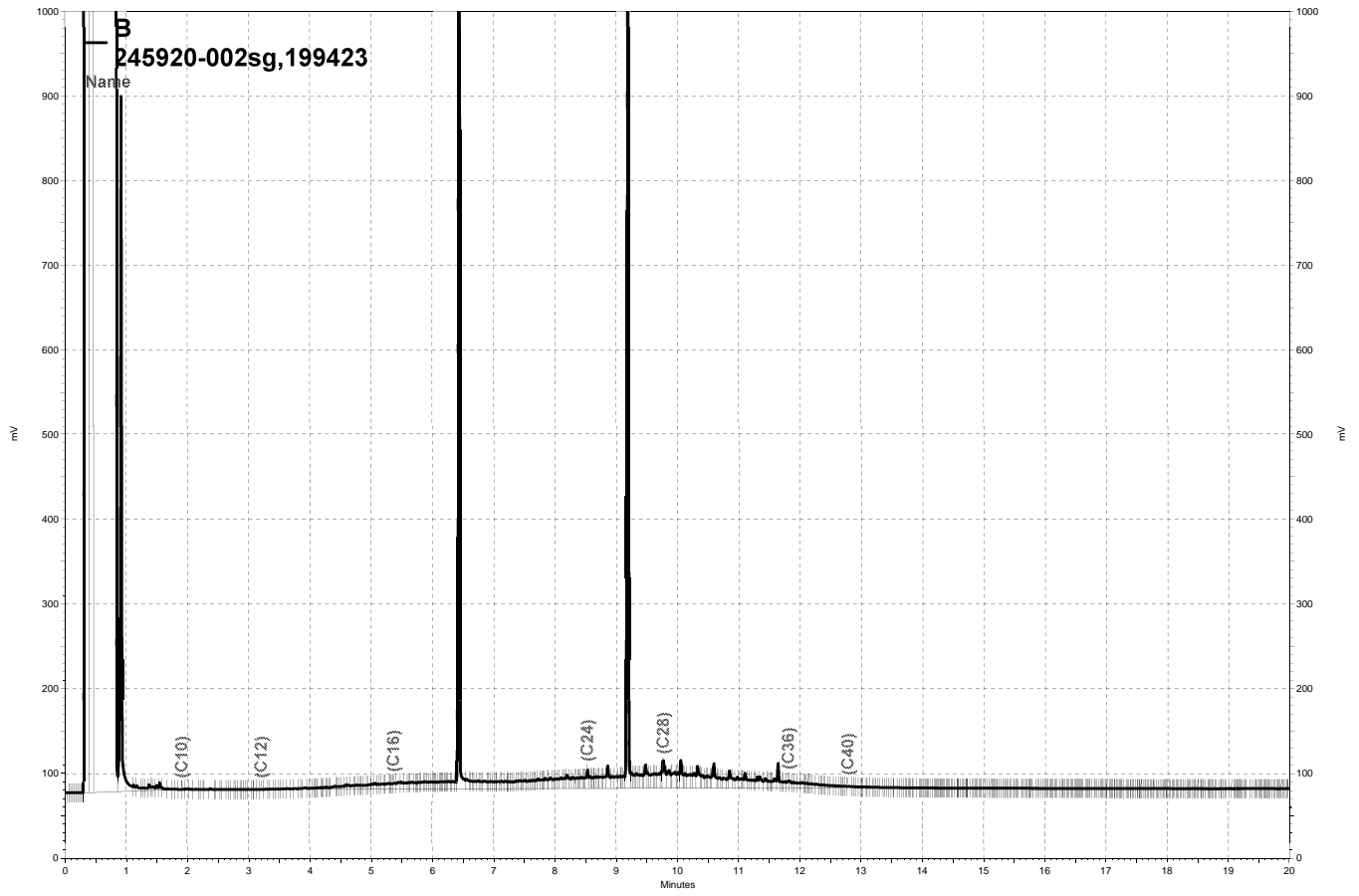
Surrogate	%REC	Limits
o-Terphenyl	94	62-136

Type: MSD Lab ID: QC692525

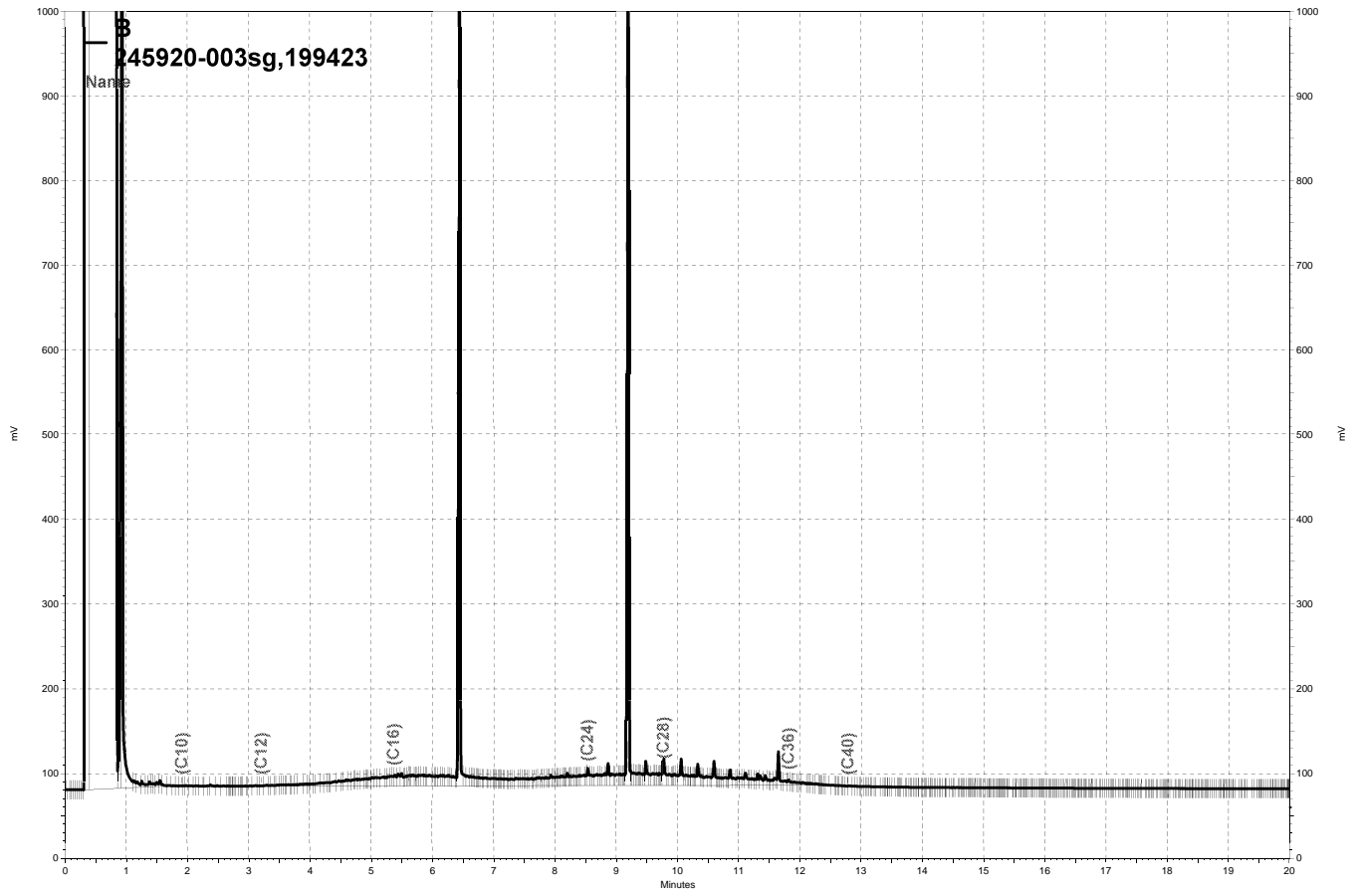
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.98	72.03	69	39-148	26	45

Surrogate	%REC	Limits
o-Terphenyl	98	62-136

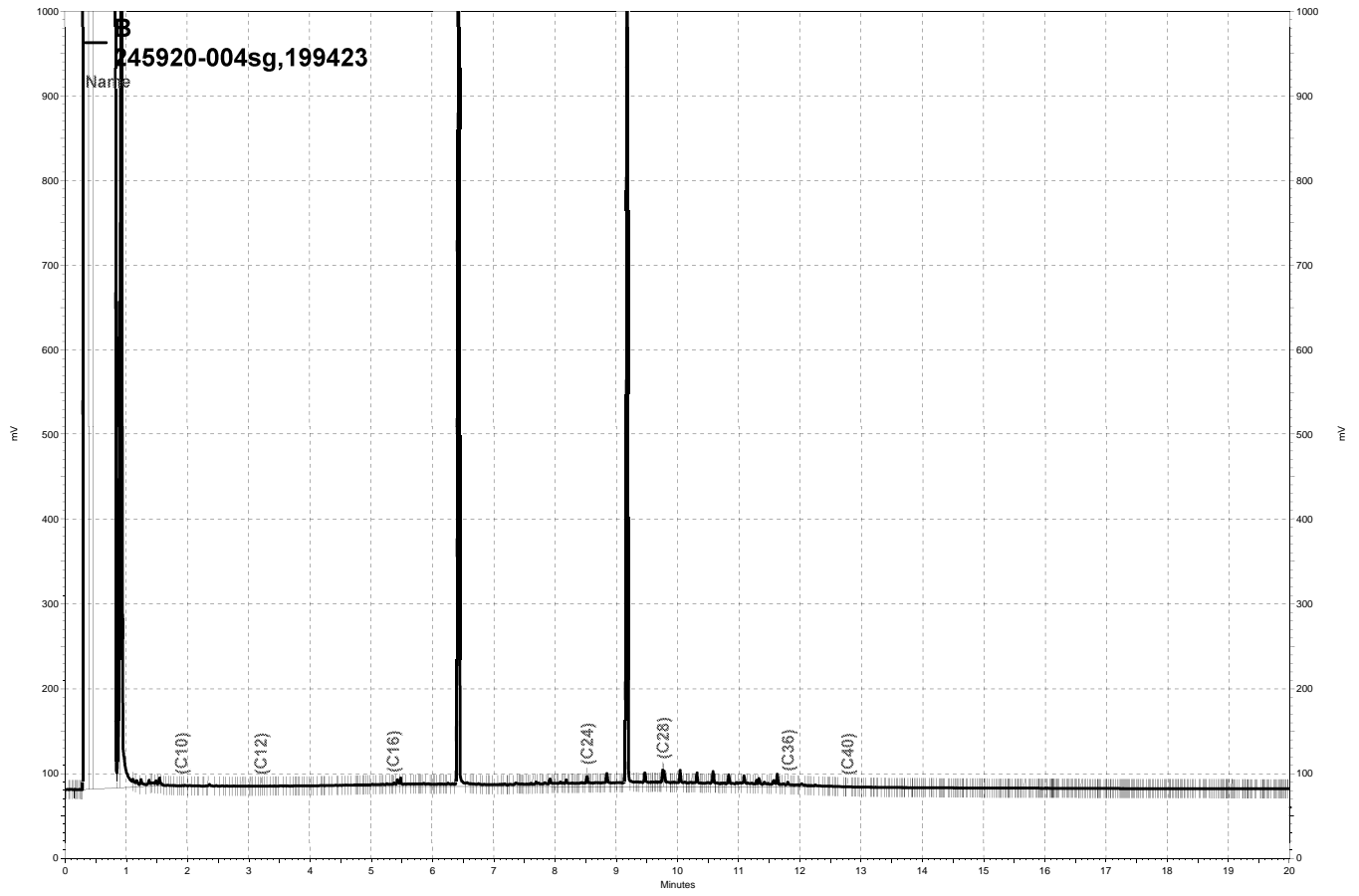
RPD= Relative Percent Difference



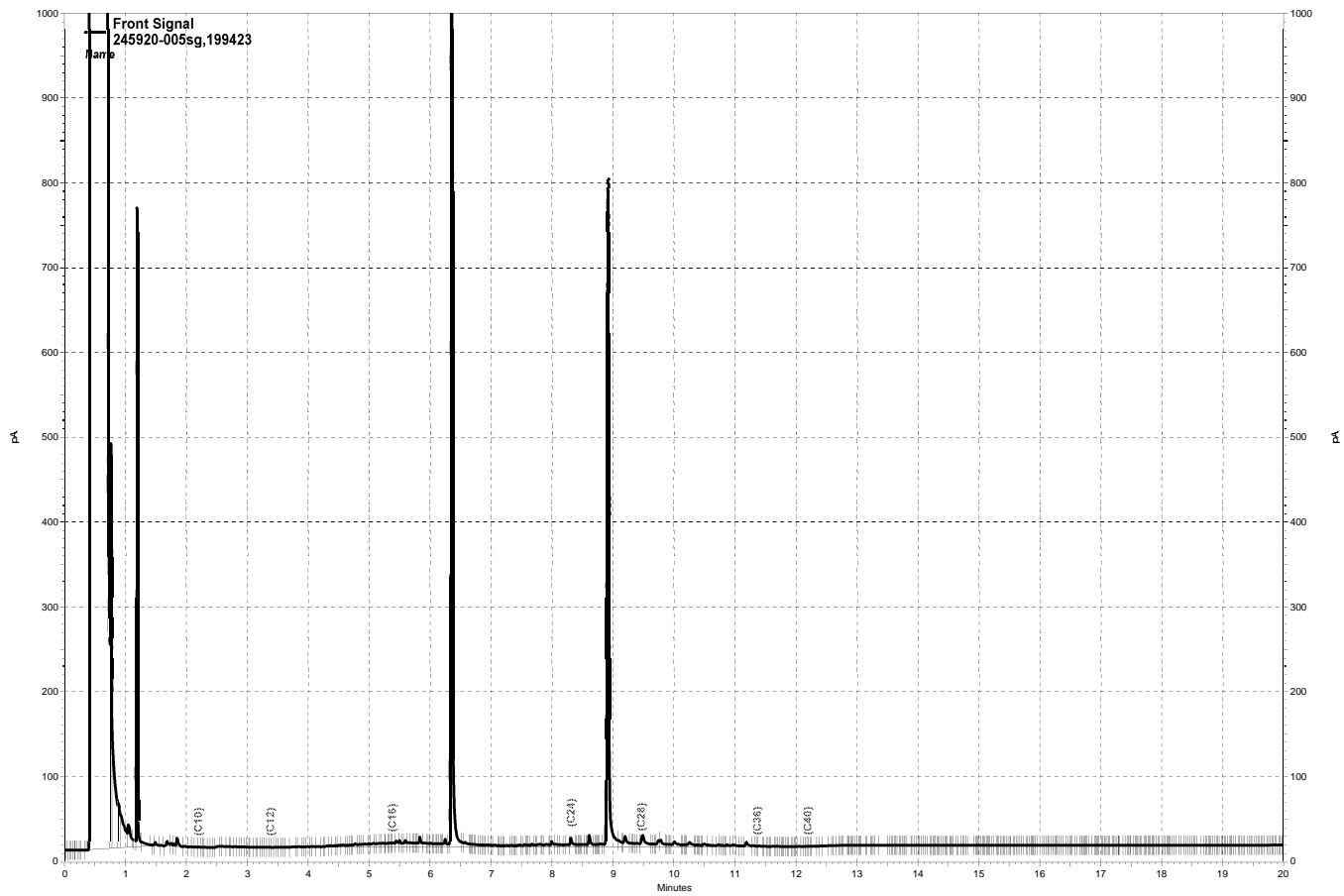
— \\Lims\gdrive\ezchrom\Projects\GC14B\Data\158b006, B



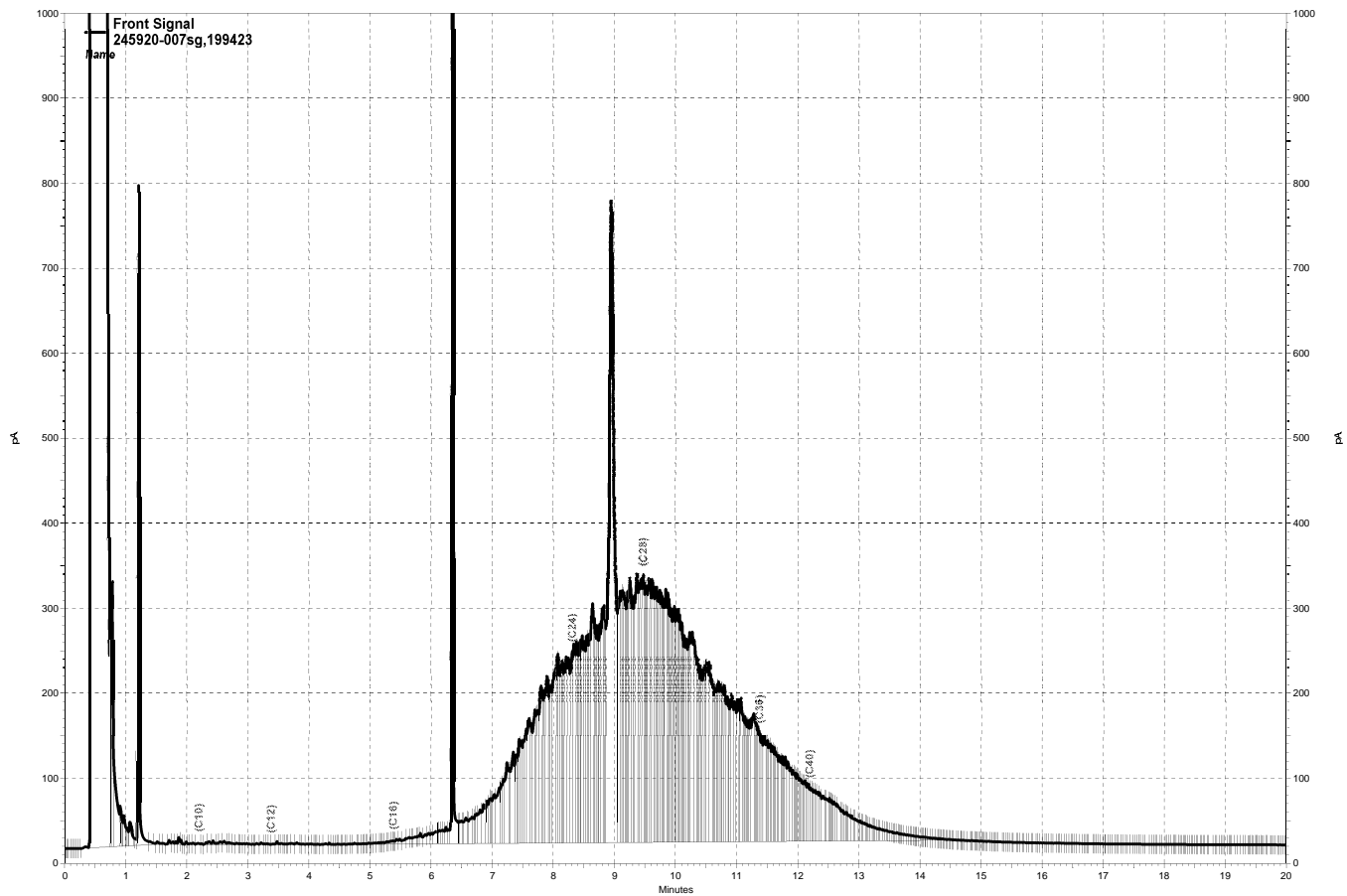
— \\Lims\gdrive\ezchrom\Projects\GC14B\Data\158b007, B



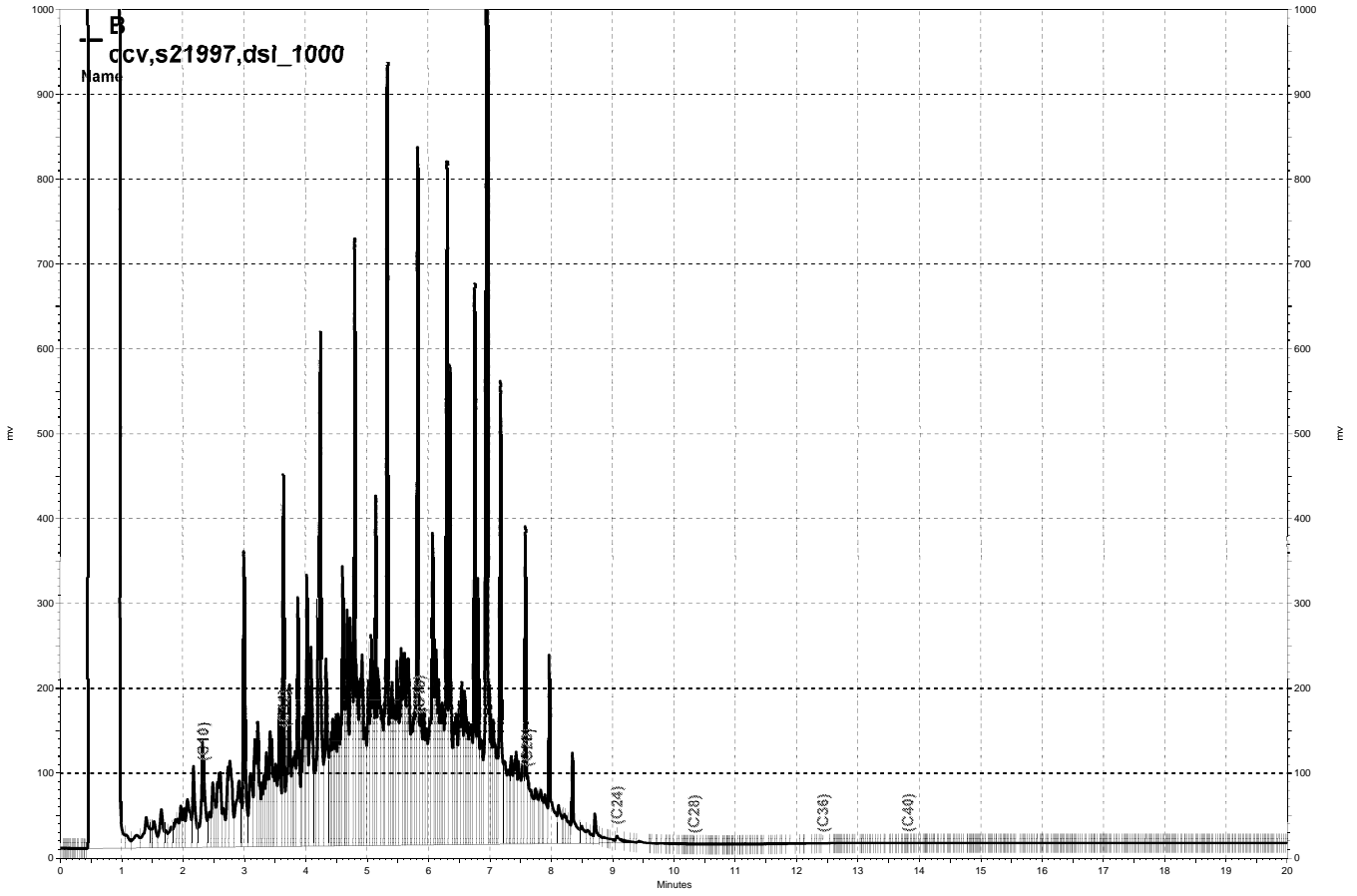
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\158b008, B



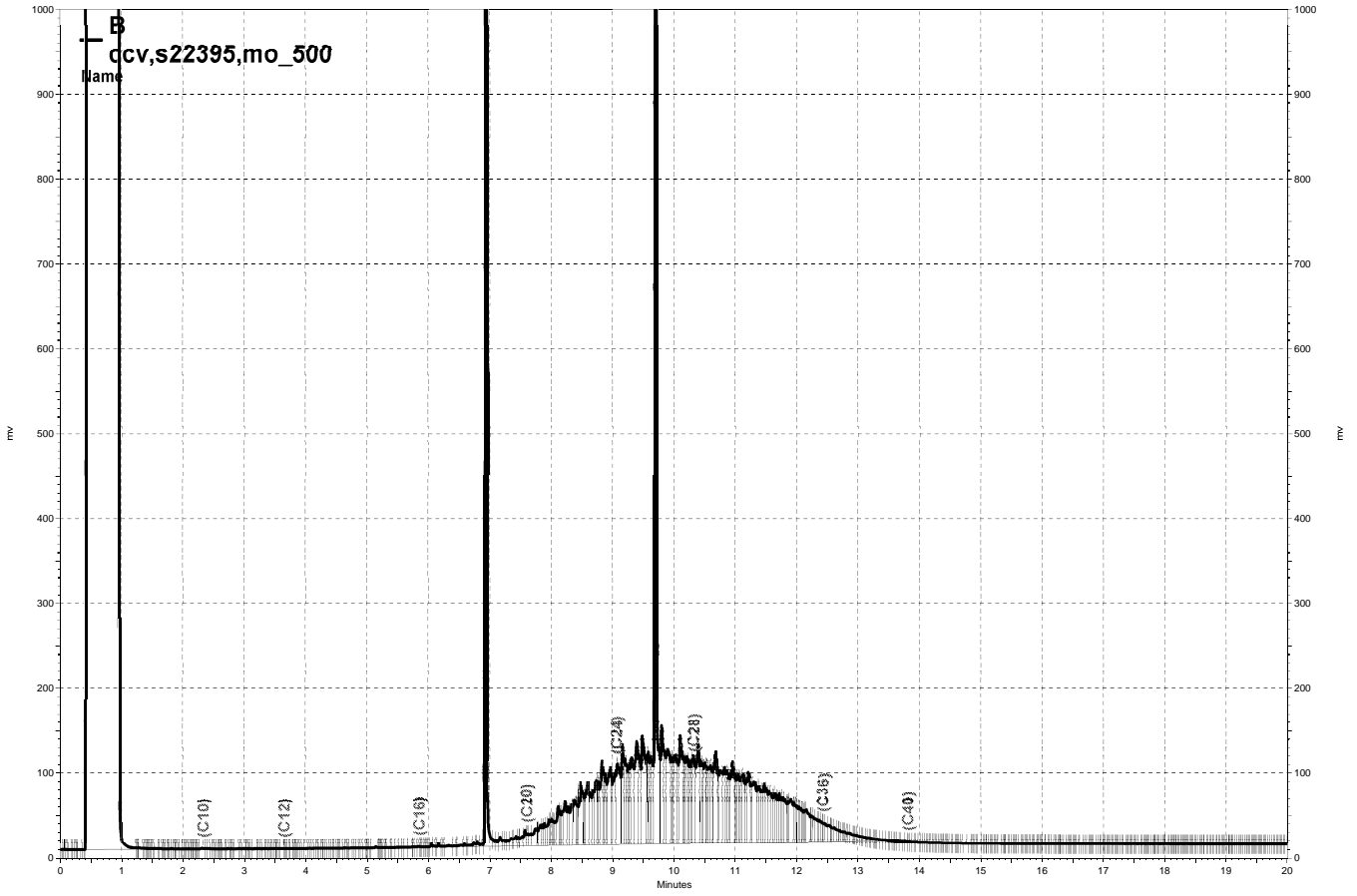
— \\lms\gdrive\ezchrom\Projects\GC27\Data\158a005.dat, Front Signal



— \\lms\gdrive\ezchrom\Projects\GC27\Data\158a007.dat, Front Signal



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\158b003, B



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\158b004, B

Purgeable Organics by GC/MS

Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-B-9	Diln Fac:	0.8696
Lab ID:	245920-002	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Freon 12	ND	8.7
tert-Butyl Alcohol (TBA)	ND	87
Chloromethane	ND	8.7
Isopropyl Ether (DIPE)	ND	4.3
Vinyl Chloride	ND	8.7
Bromomethane	ND	8.7
Ethyl tert-Butyl Ether (ETBE)	ND	4.3
Chloroethane	ND	8.7
Methyl tert-Amyl Ether (TAME)	ND	4.3
Trichlorofluoromethane	ND	4.3
Acetone	ND	17
Freon 113	ND	4.3
1,1-Dichloroethene	ND	4.3
Methylene Chloride	ND	17
Carbon Disulfide	ND	4.3
MTBE	ND	4.3
trans-1,2-Dichloroethene	ND	4.3
Vinyl Acetate	ND	43
1,1-Dichloroethane	ND	4.3
2-Butanone	ND	8.7
cis-1,2-Dichloroethene	ND	4.3
2,2-Dichloropropane	ND	4.3
Chloroform	ND	4.3
Bromochloromethane	ND	4.3
1,1,1-Trichloroethane	ND	4.3
1,1-Dichloropropene	ND	4.3
Carbon Tetrachloride	ND	4.3
1,2-Dichloroethane	ND	4.3
Benzene	ND	4.3
Trichloroethene	ND	4.3
1,2-Dichloropropane	ND	4.3
Bromodichloromethane	ND	4.3
Dibromomethane	ND	4.3
4-Methyl-2-Pentanone	ND	8.7
cis-1,3-Dichloropropene	ND	4.3
Toluene	ND	4.3
trans-1,3-Dichloropropene	ND	4.3
1,1,2-Trichloroethane	ND	4.3
2-Hexanone	ND	8.7
1,3-Dichloropropane	ND	4.3
Tetrachloroethene	ND	4.3
Dibromochloromethane	ND	4.3
1,2-Dibromoethane	ND	4.3
Chlorobenzene	ND	4.3
1,1,1,2-Tetrachloroethane	ND	4.3
Ethylbenzene	ND	4.3
m,p-Xylenes	ND	4.3
o-Xylene	ND	4.3
Styrene	ND	4.3
Bromoform	ND	4.3
Isopropylbenzene	ND	4.3
1,1,2,2-Tetrachloroethane	ND	4.3
1,2,3-Trichloropropane	ND	4.3
Propylbenzene	ND	4.3

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-B-9	Diln Fac:	0.8696
Lab ID:	245920-002	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Bromobenzene	ND	4.3
1,3,5-Trimethylbenzene	ND	4.3
2-Chlorotoluene	ND	4.3
4-Chlorotoluene	ND	4.3
tert-Butylbenzene	ND	4.3
1,2,4-Trimethylbenzene	ND	4.3
sec-Butylbenzene	ND	4.3
para-Isopropyl Toluene	ND	4.3
1,3-Dichlorobenzene	ND	4.3
1,4-Dichlorobenzene	ND	4.3
n-Butylbenzene	ND	4.3
1,2-Dichlorobenzene	ND	4.3
1,2-Dibromo-3-Chloropropane	ND	4.3
1,2,4-Trichlorobenzene	ND	4.3
Hexachlorobutadiene	ND	4.3
Naphthalene	ND	4.3
1,2,3-Trichlorobenzene	ND	4.3

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	105	79-127

ND= Not Detected
 RL= Reporting Limit
 Page 2 of 2

Purgeable Organics by GC/MS

Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-C-9	Diln Fac:	0.8913
Lab ID:	245920-003	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Freon 12	ND	8.9
tert-Butyl Alcohol (TBA)	ND	89
Chloromethane	ND	8.9
Isopropyl Ether (DIPE)	ND	4.5
Vinyl Chloride	ND	8.9
Bromomethane	ND	8.9
Ethyl tert-Butyl Ether (ETBE)	ND	4.5
Chloroethane	ND	8.9
Methyl tert-Amyl Ether (TAME)	ND	4.5
Trichlorofluoromethane	ND	4.5
Acetone	ND	18
Freon 113	ND	4.5
1,1-Dichloroethene	ND	4.5
Methylene Chloride	ND	18
Carbon Disulfide	ND	4.5
MTBE	ND	4.5
trans-1,2-Dichloroethene	ND	4.5
Vinyl Acetate	ND	45
1,1-Dichloroethane	ND	4.5
2-Butanone	ND	8.9
cis-1,2-Dichloroethene	ND	4.5
2,2-Dichloropropane	ND	4.5
Chloroform	ND	4.5
Bromochloromethane	ND	4.5
1,1,1-Trichloroethane	ND	4.5
1,1-Dichloropropene	ND	4.5
Carbon Tetrachloride	ND	4.5
1,2-Dichloroethane	ND	4.5
Benzene	ND	4.5
Trichloroethene	ND	4.5
1,2-Dichloropropane	ND	4.5
Bromodichloromethane	ND	4.5
Dibromomethane	ND	4.5
4-Methyl-2-Pentanone	ND	8.9
cis-1,3-Dichloropropene	ND	4.5
Toluene	ND	4.5
trans-1,3-Dichloropropene	ND	4.5
1,1,2-Trichloroethane	ND	4.5
2-Hexanone	ND	8.9
1,3-Dichloropropane	ND	4.5
Tetrachloroethene	ND	4.5
Dibromochloromethane	ND	4.5
1,2-Dibromoethane	ND	4.5
Chlorobenzene	ND	4.5
1,1,1,2-Tetrachloroethane	ND	4.5
Ethylbenzene	ND	4.5
m,p-Xylenes	ND	4.5
o-Xylene	ND	4.5
Styrene	ND	4.5
Bromoform	ND	4.5
Isopropylbenzene	ND	4.5
1,1,2,2-Tetrachloroethane	ND	4.5
1,2,3-Trichloropropane	ND	4.5
Propylbenzene	ND	4.5

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-C-9	Diln Fac:	0.8913
Lab ID:	245920-003	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Bromobenzene	ND	4.5
1,3,5-Trimethylbenzene	ND	4.5
2-Chlorotoluene	ND	4.5
4-Chlorotoluene	ND	4.5
tert-Butylbenzene	ND	4.5
1,2,4-Trimethylbenzene	ND	4.5
sec-Butylbenzene	ND	4.5
para-Isopropyl Toluene	ND	4.5
1,3-Dichlorobenzene	ND	4.5
1,4-Dichlorobenzene	ND	4.5
n-Butylbenzene	ND	4.5
1,2-Dichlorobenzene	ND	4.5
1,2-Dibromo-3-Chloropropane	ND	4.5
1,2,4-Trichlorobenzene	ND	4.5
Hexachlorobutadiene	ND	4.5
Naphthalene	ND	4.5
1,2,3-Trichlorobenzene	ND	4.5

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	104	80-120
Bromofluorobenzene	111	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-D-9	Diln Fac:	0.8432
Lab ID:	245920-004	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Freon 12	ND	8.4
tert-Butyl Alcohol (TBA)	ND	84
Chloromethane	ND	8.4
Isopropyl Ether (DIPE)	ND	4.2
Vinyl Chloride	ND	8.4
Bromomethane	ND	8.4
Ethyl tert-Butyl Ether (ETBE)	ND	4.2
Chloroethane	ND	8.4
Methyl tert-Amyl Ether (TAME)	ND	4.2
Trichlorofluoromethane	ND	4.2
Acetone	ND	17
Freon 113	ND	4.2
1,1-Dichloroethene	ND	4.2
Methylene Chloride	ND	17
Carbon Disulfide	ND	4.2
MTBE	ND	4.2
trans-1,2-Dichloroethene	ND	4.2
Vinyl Acetate	ND	42
1,1-Dichloroethane	ND	4.2
2-Butanone	ND	8.4
cis-1,2-Dichloroethene	ND	4.2
2,2-Dichloropropane	ND	4.2
Chloroform	ND	4.2
Bromochloromethane	ND	4.2
1,1,1-Trichloroethane	ND	4.2
1,1-Dichloropropene	ND	4.2
Carbon Tetrachloride	ND	4.2
1,2-Dichloroethane	ND	4.2
Benzene	ND	4.2
Trichloroethene	ND	4.2
1,2-Dichloropropane	ND	4.2
Bromodichloromethane	ND	4.2
Dibromomethane	ND	4.2
4-Methyl-2-Pentanone	ND	8.4
cis-1,3-Dichloropropene	ND	4.2
Toluene	ND	4.2
trans-1,3-Dichloropropene	ND	4.2
1,1,2-Trichloroethane	ND	4.2
2-Hexanone	ND	8.4
1,3-Dichloropropane	ND	4.2
Tetrachloroethene	ND	4.2
Dibromochloromethane	ND	4.2
1,2-Dibromoethane	ND	4.2
Chlorobenzene	ND	4.2
1,1,1,2-Tetrachloroethane	ND	4.2
Ethylbenzene	ND	4.2
m,p-Xylenes	ND	4.2
o-Xylene	ND	4.2
Styrene	ND	4.2
Bromoform	ND	4.2
Isopropylbenzene	ND	4.2
1,1,2,2-Tetrachloroethane	ND	4.2
1,2,3-Trichloropropane	ND	4.2
Propylbenzene	ND	4.2

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-D-9	Diln Fac:	0.8432
Lab ID:	245920-004	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Bromobenzene	ND	4.2
1,3,5-Trimethylbenzene	ND	4.2
2-Chlorotoluene	ND	4.2
4-Chlorotoluene	ND	4.2
tert-Butylbenzene	ND	4.2
1,2,4-Trimethylbenzene	ND	4.2
sec-Butylbenzene	ND	4.2
para-Isopropyl Toluene	ND	4.2
1,3-Dichlorobenzene	ND	4.2
1,4-Dichlorobenzene	ND	4.2
n-Butylbenzene	ND	4.2
1,2-Dichlorobenzene	ND	4.2
1,2-Dibromo-3-Chloropropane	ND	4.2
1,2,4-Trichlorobenzene	ND	4.2
Hexachlorobutadiene	ND	4.2
Naphthalene	ND	4.2
1,2,3-Trichlorobenzene	ND	4.2

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	106	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	111	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-E-9	Diln Fac:	0.8306
Lab ID:	245920-005	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Freon 12	ND	8.3
tert-Butyl Alcohol (TBA)	ND	83
Chloromethane	ND	8.3
Isopropyl Ether (DIPE)	ND	4.2
Vinyl Chloride	ND	8.3
Bromomethane	ND	8.3
Ethyl tert-Butyl Ether (ETBE)	ND	4.2
Chloroethane	ND	8.3
Methyl tert-Amyl Ether (TAME)	ND	4.2
Trichlorofluoromethane	ND	4.2
Acetone	ND	17
Freon 113	ND	4.2
1,1-Dichloroethene	ND	4.2
Methylene Chloride	ND	17
Carbon Disulfide	ND	4.2
MTBE	ND	4.2
trans-1,2-Dichloroethene	ND	4.2
Vinyl Acetate	ND	42
1,1-Dichloroethane	ND	4.2
2-Butanone	ND	8.3
cis-1,2-Dichloroethene	ND	4.2
2,2-Dichloropropane	ND	4.2
Chloroform	ND	4.2
Bromochloromethane	ND	4.2
1,1,1-Trichloroethane	ND	4.2
1,1-Dichloropropene	ND	4.2
Carbon Tetrachloride	ND	4.2
1,2-Dichloroethane	ND	4.2
Benzene	ND	4.2
Trichloroethene	ND	4.2
1,2-Dichloropropane	ND	4.2
Bromodichloromethane	ND	4.2
Dibromomethane	ND	4.2
4-Methyl-2-Pentanone	ND	8.3
cis-1,3-Dichloropropene	ND	4.2
Toluene	ND	4.2
trans-1,3-Dichloropropene	ND	4.2
1,1,2-Trichloroethane	ND	4.2
2-Hexanone	ND	8.3
1,3-Dichloropropane	ND	4.2
Tetrachloroethene	ND	4.2
Dibromochloromethane	ND	4.2
1,2-Dibromoethane	ND	4.2
Chlorobenzene	ND	4.2
1,1,1,2-Tetrachloroethane	ND	4.2
Ethylbenzene	ND	4.2
m,p-Xylenes	ND	4.2
o-Xylene	ND	4.2
Styrene	ND	4.2
Bromoform	ND	4.2
Isopropylbenzene	ND	4.2
1,1,2,2-Tetrachloroethane	ND	4.2
1,2,3-Trichloropropane	ND	4.2
Propylbenzene	ND	4.2

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-E-9	Diln Fac:	0.8306
Lab ID:	245920-005	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Bromobenzene	ND	4.2
1,3,5-Trimethylbenzene	ND	4.2
2-Chlorotoluene	ND	4.2
4-Chlorotoluene	ND	4.2
tert-Butylbenzene	ND	4.2
1,2,4-Trimethylbenzene	ND	4.2
sec-Butylbenzene	ND	4.2
para-Isopropyl Toluene	ND	4.2
1,3-Dichlorobenzene	ND	4.2
1,4-Dichlorobenzene	ND	4.2
n-Butylbenzene	ND	4.2
1,2-Dichlorobenzene	ND	4.2
1,2-Dibromo-3-Chloropropane	ND	4.2
1,2,4-Trichlorobenzene	ND	4.2
Hexachlorobutadiene	ND	4.2
Naphthalene	ND	4.2
1,2,3-Trichlorobenzene	ND	4.2

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	107	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS			
Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-A-9	Diln Fac:	0.8606
Lab ID:	245920-006	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Freon 12	ND	8.6
tert-Butyl Alcohol (TBA)	ND	86
Chloromethane	ND	8.6
Isopropyl Ether (DIPE)	ND	4.3
Vinyl Chloride	ND	8.6
Bromomethane	ND	8.6
Ethyl tert-Butyl Ether (ETBE)	ND	4.3
Chloroethane	ND	8.6
Methyl tert-Amyl Ether (TAME)	ND	4.3
Trichlorofluoromethane	ND	4.3
Acetone	ND	17
Freon 113	ND	4.3
1,1-Dichloroethene	ND	4.3
Methylene Chloride	ND	17
Carbon Disulfide	ND	4.3
MTBE	ND	4.3
trans-1,2-Dichloroethene	ND	4.3
Vinyl Acetate	ND	43
1,1-Dichloroethane	ND	4.3
2-Butanone	ND	8.6
cis-1,2-Dichloroethene	ND	4.3
2,2-Dichloropropane	ND	4.3
Chloroform	ND	4.3
Bromochloromethane	ND	4.3
1,1,1-Trichloroethane	ND	4.3
1,1-Dichloropropene	ND	4.3
Carbon Tetrachloride	ND	4.3
1,2-Dichloroethane	ND	4.3
Benzene	ND	4.3
Trichloroethene	ND	4.3
1,2-Dichloropropane	ND	4.3
Bromodichloromethane	ND	4.3
Dibromomethane	ND	4.3
4-Methyl-2-Pentanone	ND	8.6
cis-1,3-Dichloropropene	ND	4.3
Toluene	ND	4.3
trans-1,3-Dichloropropene	ND	4.3
1,1,2-Trichloroethane	ND	4.3
2-Hexanone	ND	8.6
1,3-Dichloropropane	ND	4.3
Tetrachloroethene	ND	4.3
Dibromochloromethane	ND	4.3
1,2-Dibromoethane	ND	4.3
Chlorobenzene	ND	4.3
1,1,1,2-Tetrachloroethane	ND	4.3
Ethylbenzene	ND	4.3
m,p-Xylenes	ND	4.3
o-Xylene	ND	4.3
Styrene	ND	4.3
Bromoform	ND	4.3
Isopropylbenzene	ND	4.3
1,1,2,2-Tetrachloroethane	ND	4.3
1,2,3-Trichloropropane	ND	4.3
Propylbenzene	ND	4.3

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-A-9	Diln Fac:	0.8606
Lab ID:	245920-006	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Bromobenzene	ND	4.3
1,3,5-Trimethylbenzene	ND	4.3
2-Chlorotoluene	ND	4.3
4-Chlorotoluene	ND	4.3
tert-Butylbenzene	ND	4.3
1,2,4-Trimethylbenzene	ND	4.3
sec-Butylbenzene	ND	4.3
para-Isopropyl Toluene	ND	4.3
1,3-Dichlorobenzene	ND	4.3
1,4-Dichlorobenzene	ND	4.3
n-Butylbenzene	ND	4.3
1,2-Dichlorobenzene	ND	4.3
1,2-Dibromo-3-Chloropropane	ND	4.3
1,2,4-Trichlorobenzene	ND	4.3
Hexachlorobutadiene	ND	4.3
Naphthalene	ND	4.3
1,2,3-Trichlorobenzene	ND	4.3

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-124
1,2-Dichloroethane-d4	115	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	108	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS			
Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-F-9	Diln Fac:	0.9470
Lab ID:	245920-007	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Freon 12	ND	9.5
tert-Butyl Alcohol (TBA)	ND	95
Chloromethane	ND	9.5
Isopropyl Ether (DIPE)	ND	4.7
Vinyl Chloride	ND	9.5
Bromomethane	ND	9.5
Ethyl tert-Butyl Ether (ETBE)	ND	4.7
Chloroethane	ND	9.5
Methyl tert-Amyl Ether (TAME)	ND	4.7
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.5
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.5
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.5
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-F-9	Diln Fac:	0.9470
Lab ID:	245920-007	Batch#:	199411
Matrix:	Soil	Sampled:	06/06/13
Units:	ug/Kg	Received:	06/06/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-124
1,2-Dichloroethane-d4	106	80-137
Toluene-d8	89	80-120
Bromofluorobenzene	119	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692473	Batch#:	199411
Matrix:	Soil	Analyzed:	06/06/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
tert-Butyl Alcohol (TBA)	ND	100
Chloromethane	ND	10
Isopropyl Ether (DIPE)	ND	5.0
Vinyl Chloride	ND	10
Bromomethane	ND	10
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
Chloroethane	ND	10
Methyl tert-Amyl Ether (TAME)	ND	5.0
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692473	Batch#:	199411
Matrix:	Soil	Analyzed:	06/06/13
Units:	ug/Kg		

Analyte	Result	RL
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-124
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	105	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245920	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199411
Units:	ug/Kg	Analyzed:	06/06/13
Diln Fac:	1.000		

Type: BS Lab ID: QC692474

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	127.9	128	53-141
Isopropyl Ether (DIPE)	20.00	15.17	76	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	17.10	86	62-121
Methyl tert-Amyl Ether (TAME)	20.00	18.85	94	66-120
1,1-Dichloroethene	20.00	19.35	97	67-132
Benzene	20.00	19.98	100	77-126
Trichloroethene	20.00	21.45	107	76-127
Toluene	20.00	19.09	95	76-124
Chlorobenzene	20.00	19.68	98	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-124
1,2-Dichloroethane-d4	109	80-137
Toluene-d8	92	80-120
Bromofluorobenzene	108	79-127

Type: BSD Lab ID: QC692475

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	110.9	111	53-141	14	34
Isopropyl Ether (DIPE)	20.00	14.98	75	57-122	1	26
Ethyl tert-Butyl Ether (ETBE)	20.00	15.92	80	62-121	7	28
Methyl tert-Amyl Ether (TAME)	20.00	18.32	92	66-120	3	24
1,1-Dichloroethene	20.00	18.82	94	67-132	3	27
Benzene	20.00	19.02	95	77-126	5	20
Trichloroethene	20.00	20.41	102	76-127	5	22
Toluene	20.00	18.15	91	76-124	5	26
Chlorobenzene	20.00	18.64	93	76-120	5	21

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-124
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	92	80-120
Bromofluorobenzene	109	79-127

RPD= Relative Percent Difference



Curtis & Tompkins, Ltd.

Analytical Laboratories, Since 1878



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

Laboratory Job Number 245882
ANALYTICAL REPORT

Applied Water Resources
1600 Rivera Ave Suite 310
Walnut Creek, CA 94596

Project : AWR 13-05
Location : 2250 Telegraph
Level : II

<u>Sample ID</u>	<u>Lab ID</u>
EX1-C-4	245882-001
EX1-D-4	245882-002
EX1-B-4	245882-003
EX1-E-4	245882-004
EX1-A-4	245882-005
EX1-F-4	245882-006
EX1-G-4	245882-007
EX1-H-4	245882-008
EX2-A-4	245882-009
EX2-B-4	245882-010
EX2-C-4	245882-011
EX2-D-4	245882-012
EX1-C-7	245882-013

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: _____

Tracy Babjar
Project Manager
(510) 204-2226

Date: 06/07/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 245882
Client: Applied Water Resources
Project: AWR 13-05
Location: 2250 Telegraph
Request Date: 06/05/13
Samples Received: 06/05/13

This data package contains sample and QC results for thirteen soil samples, requested for the above referenced project on 06/05/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

Matrix spikes were not performed for this analysis in batch 199372 due to insufficient sample amount. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

Matrix spikes QC692344, QC692345 (batch 199379) were not reported because the parent sample required a dilution that would have diluted out the spikes. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):

Matrix spikes were not performed for this analysis in batch 199362 due to insufficient sample amount. Matrix spikes were not performed for this analysis in batch 199361 due to insufficient sample amount. High recovery was observed for 1,2-dibromoethane in the BSD for batch 199361; the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM):

No analytical problems were encountered.

Metals (EPA 6010B):

Low recoveries were observed for lead in the MS/MSD for batch 199385; the parent sample was not a project sample, the BS/BSD were within limits, and the associated RPD was within limits. No other analytical problems were encountered.

Subject: Sample Name Changes

From: Tyson Fulmer <tfulmer@awrcorp.net>

Date: 6/6/2013 3:52 PM

To: Tracy Babjar <tracy.babjar@ctberk.com>

CC: Yola Bayram <ybayram@awrcorp.net>, Steve Michelson <smichelson@awrcorp.net>

Tracy, per our conversation we will need all of our sample prefixes changed on the COC and the report. Please change all of the WO prefixes to EX1 and Gas prefixes to EX2. Samples will be changed as follows:

Original	Change to
WO-C-4	EX1-C-4
WO-D-4	EX1-D-4
WO-B-4	EX1-B-4
WO-E-4	EX1-E-4
WO-A-4	EX1-A-4
WO-F-4	EX1-F-4
WO-G-4	EX1-G-4
WO-H-4	EX1-H-4
GAS-A-4	EX2-A-4
GAS-B-4	EX2-B-4
GAS-C-4	EX2-C-4
GAS-D-4	EX2-D-4
WO-C-7	EX1-C-7

Thanks,

Tyson Fulmer
AWR Corp

-----Original Message-----

From: Tracy Babjar [<mailto:tracy.babjar@ctberk.com>]
Sent: Thursday, June 06, 2013 12:40 PM
To: Yola Bayram; Tyson Fulmer
Subject: Re: samples today

Thank you!

Do you all have a project number for this job? I could just make it the same as the project name.

I just want to set up lists.

Please let me know when you can.

Tracy

On 6/6/2013 12:34 PM, Yola Bayram wrote:

I hope to be there before 4 like yesterday.

Yup I saw the email exchange. I'll add that to the COC

Thanks
Y

Subject: RE: 2250 Telegraph - C&T Login Summary (245882)
From: "Tyson Fulmer" <tfulmer@erscorp.us>
Date: 6/6/2013 10:43 AM
To: "'Tracy Babjar'" <tracy.babjar@ctberk.com>, <llinderman@waterk.net>, "Steve Michelson" <smichelson@awrcorp.net>, "Yola Bayram" <ybayram@awrcorp.net>

Tracy we are going to need the following changes to WO 245882:

- Silica gel cleanup by EPA3630 on all of the TPH extractable analyses.
- Fuel oxy's and lead scavengers analyzed for the following samples (GAS-A-4, GAS-B-4, GAS-C-4, and GAS-D-4).
- MTBE reported on the E8020MS analyses.

@Yola, make sure you indicate these changes on the next COC.

Thanks,

Tyson Fulmer
 ERS Corp

From: Tracy Babjar [mailto:tracy.babjar@ctberk.com]
Sent: Thursday, June 06, 2013 10:06 AM
To: Ccurtis@awrcorp.net; LLinderman@ERSCORP.US; SMichelson@awrcorp.net; Ybayram@ERSCORP.US; kdorsa@waterk.net; tfulmer@ERSCORP.US
Subject: 2250 Telegraph - C&T Login Summary (245882)

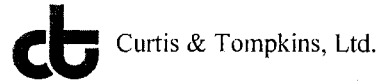
Hi Everyone, I want to make sure the TPH-D & MO do not need silica gel. Also, did you want to assign this site with a project number please so that I can make up the special list for the BTXE & Napth. by 8260 which we use a product code of 8020MS. Thank you! Tracy

C&T Login Summary for 245882

<p>Project: STANDARD Site: 2250 Telegraph Lab Login #: 245882 Report Level: II Report Due: 06/06/13 PO#: C&T Proj Mgr: Tracy Babjar</p>	<p>Report To: Applied Water Resources 1600 Rivera Ave Suite 310 Walnut Creek, CA 94596 ATTN: Steve Michelson (925) 938-1600</p>	<p>Bill To: Applied Water Resources 1600 Rivera Ave Suite 310 Walnut Creek, CA 94596 ATTN: Steve Michelson (925) 938-1600</p>
--	--	--

Client ID	Lab ID	Sampled	Received	Matrix	Analyses	COC #	Comments
WO-C-4	001	06/05	06/05	Soil	8270-SIM		
				Soil	E8260		
				Soil	ETVH		
				Soil	LUFT MET		
				Soil	TEHM		
				Soil	TERRACORE		

COOLER RECEIPT CHECKLIST



Login # 295882 Date Received 6/5/13 Number of coolers 1
Client AWR CORP Project 2250 TELEGRAPH

Date Opened 6/5/13 By (print) TR (sign) Tina Raitan
Date Logged in [initials] By (print) [initials] (sign) [signature]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO (X)
How many Name Date

2B. Were custody seals intact upon arrival? YES NO (N/A)

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, Cardboard, Styrofoam, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet, Blue/Gel, None, Temp(°C)

Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO (X) TR
If YES, what time were they transferred to freezer? 1620

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO (N/A)

16. Did you check preservatives for all bottles for each sample? YES NO (N/A)

17. Did you document your preservative check? YES NO (N/A)

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A) TR

19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A) M

20. Are bubbles > 6mm absent in VOA samples? YES NO (N/A)

21. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Gasoline by GC/FID (5035 Prep)			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	199372
Units:	mg/Kg	Sampled:	06/05/13
Basis:	as received	Received:	06/05/13
Diln Fac:	1.000		

Field ID: EX1-C-4 Lab ID: 245882-001
 Type: SAMPLE Analyzed: 06/05/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.14

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	64-139

Field ID: EX1-D-4 Lab ID: 245882-002
 Type: SAMPLE Analyzed: 06/05/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	64-139

Field ID: EX1-B-4 Lab ID: 245882-003
 Type: SAMPLE Analyzed: 06/05/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.17

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	64-139

Field ID: EX1-E-4 Lab ID: 245882-004
 Type: SAMPLE Analyzed: 06/05/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.19

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	64-139

Field ID: EX1-A-4 Lab ID: 245882-005
 Type: SAMPLE Analyzed: 06/05/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.22

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

ND= Not Detected
 RL= Reporting Limit
 Page 1 of 3

Batch QC Report

Gasoline by GC/FID (5035 Prep)			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	199372
Units:	mg/Kg	Analyzed:	06/05/13
Diln Fac:	1.000		

Type: BS Lab ID: QC692311

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9410	94	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	90	64-139

Type: BSD Lab ID: QC692312

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	0.9910	99	80-120	5	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	64-139

RPD= Relative Percent Difference

Total Extractable Hydrocarbons			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/05/13
Units:	mg/Kg	Received:	06/05/13
Basis:	as received	Prepared:	06/05/13
Diln Fac:	1.000	Analyzed:	06/06/13
Batch#:	199379		

Field ID: EX1-A-4 Lab ID: 245882-005
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	31 Y	1.0
Motor Oil C24-C36	40	5.0

Surrogate	%REC	Limits
o-Terphenyl	111	62-136

Field ID: EX1-F-4 Lab ID: 245882-006
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	8.2 Y	1.0
Motor Oil C24-C36	63	5.0

Surrogate	%REC	Limits
o-Terphenyl	100	62-136

Field ID: EX1-G-4 Lab ID: 245882-007
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	102	62-136

Field ID: EX1-H-4 Lab ID: 245882-008
 Type: SAMPLE Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	3.0 Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	90	62-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

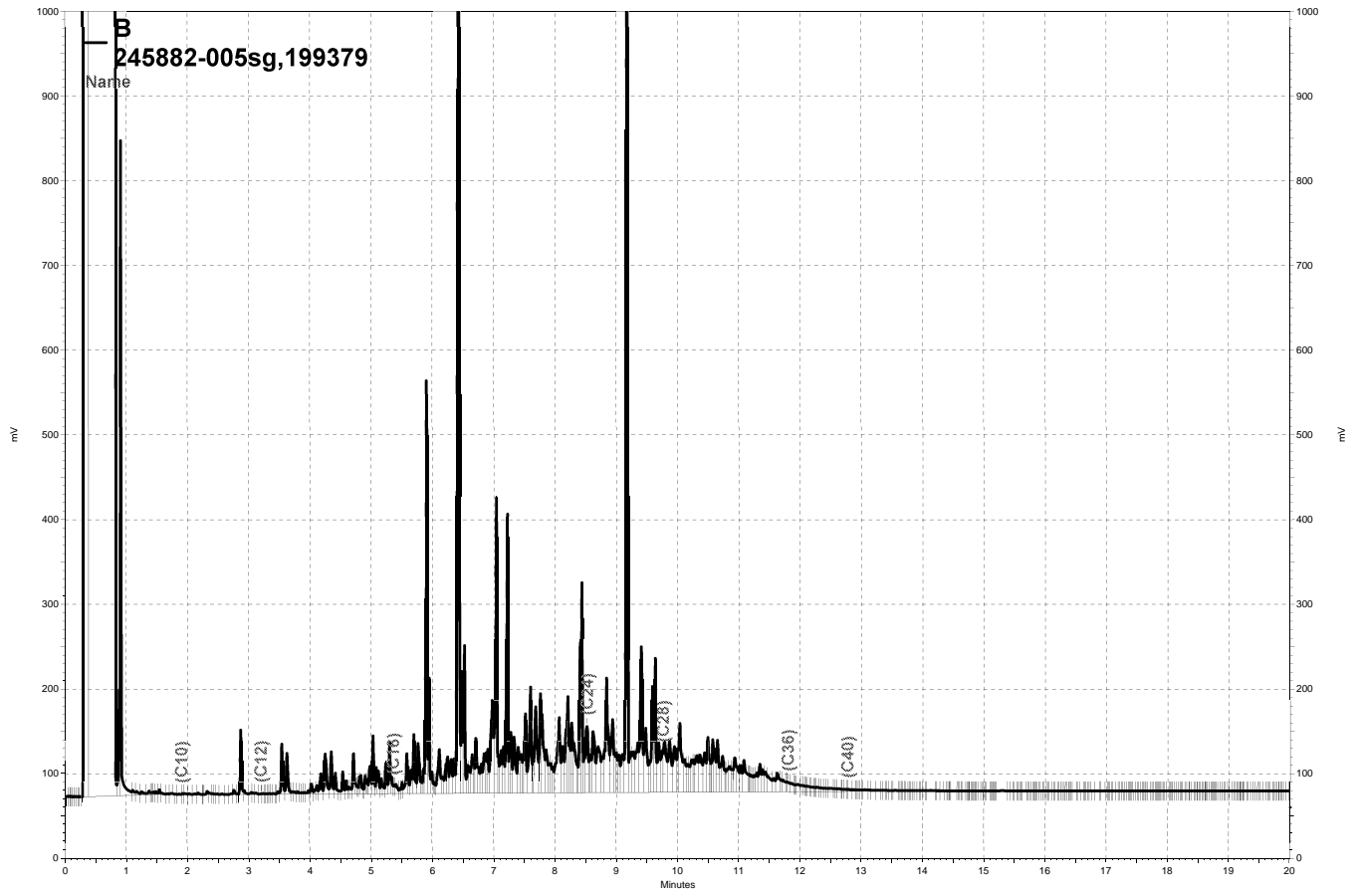
Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692343	Batch#:	199379
Matrix:	Soil	Prepared:	06/05/13
Units:	mg/Kg	Analyzed:	06/06/13

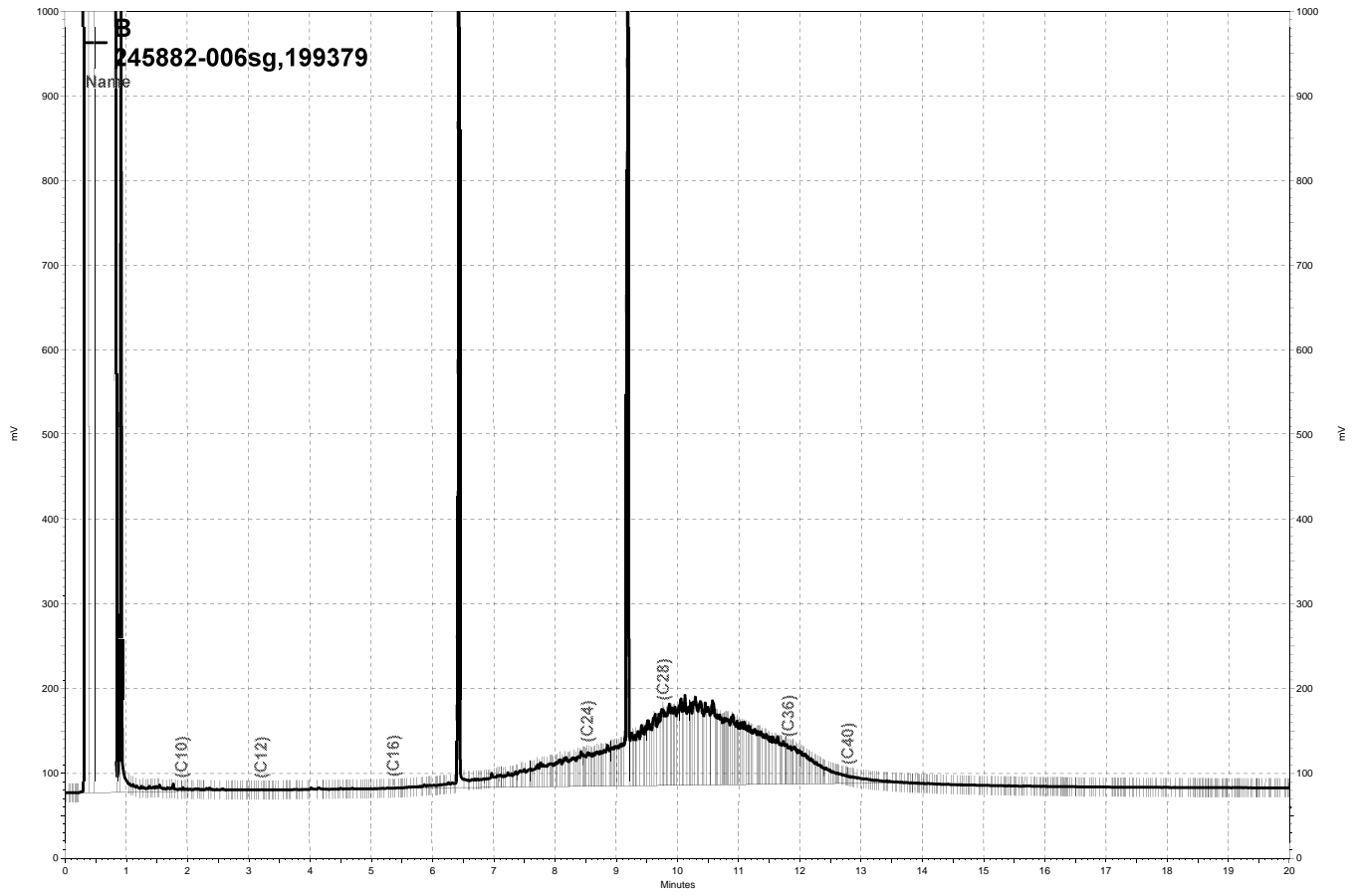
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.38	38.58	77	62-130

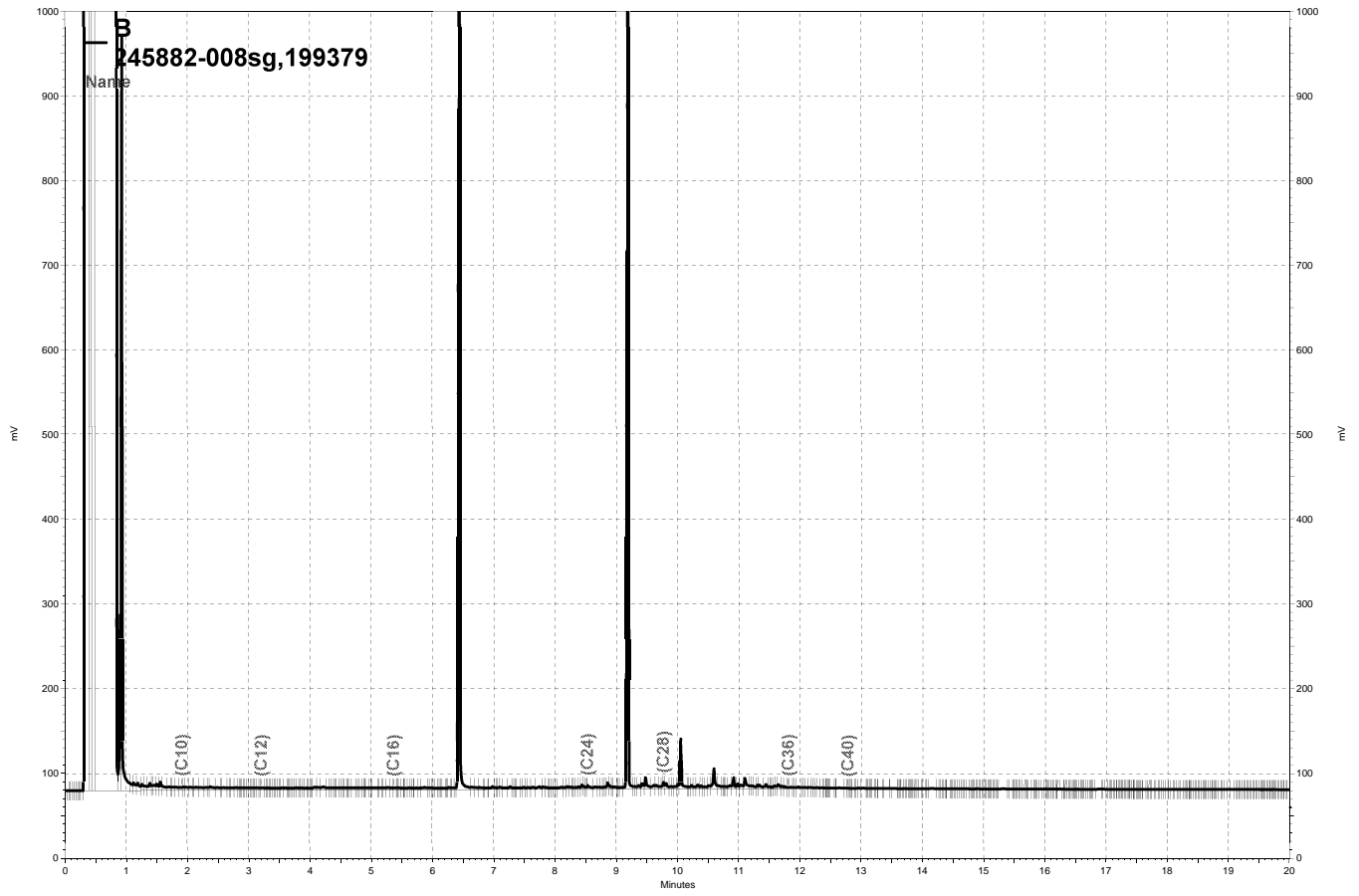
Surrogate	%REC	Limits
o-Terphenyl	82	62-136



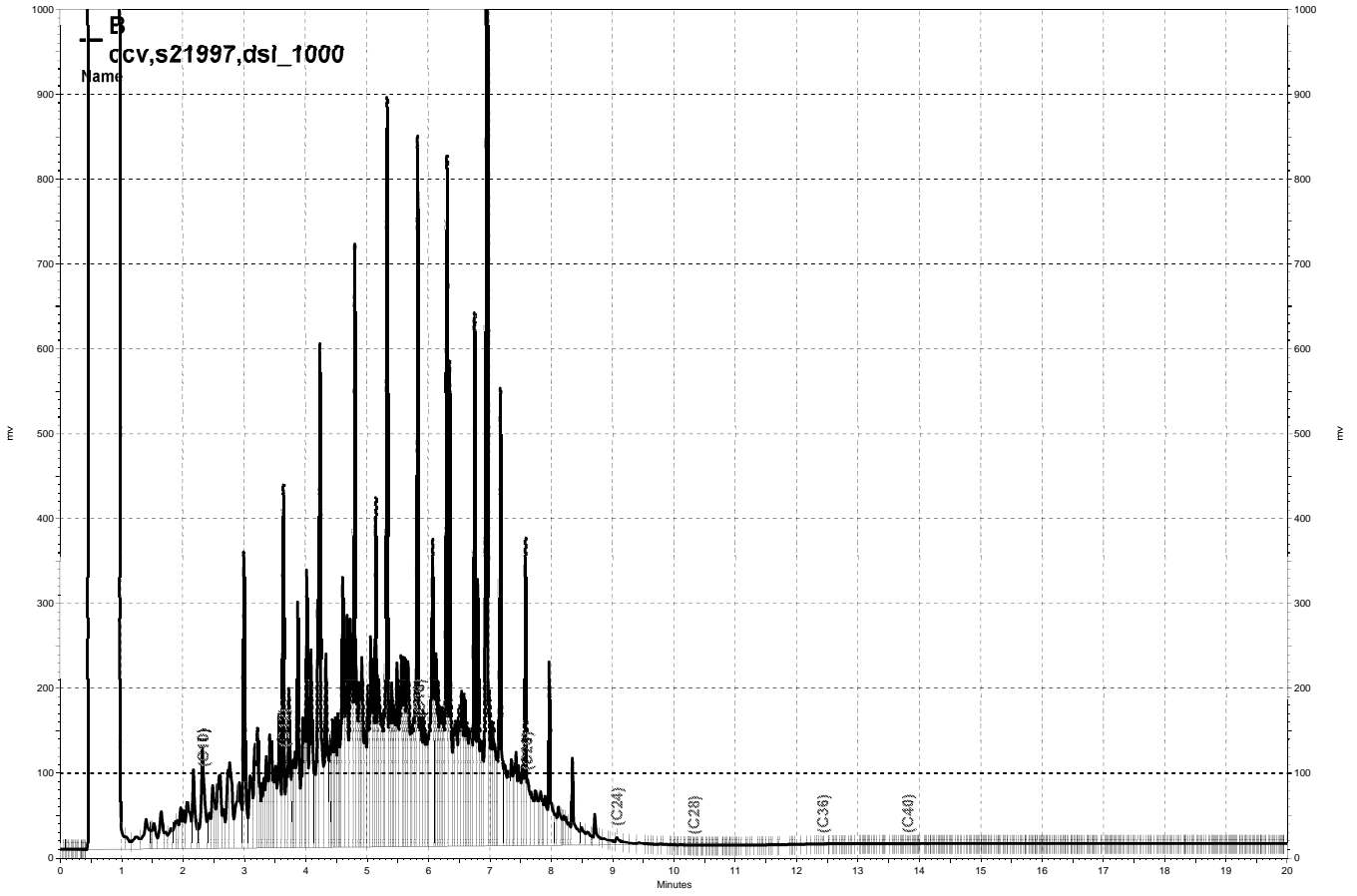
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\157b008, B



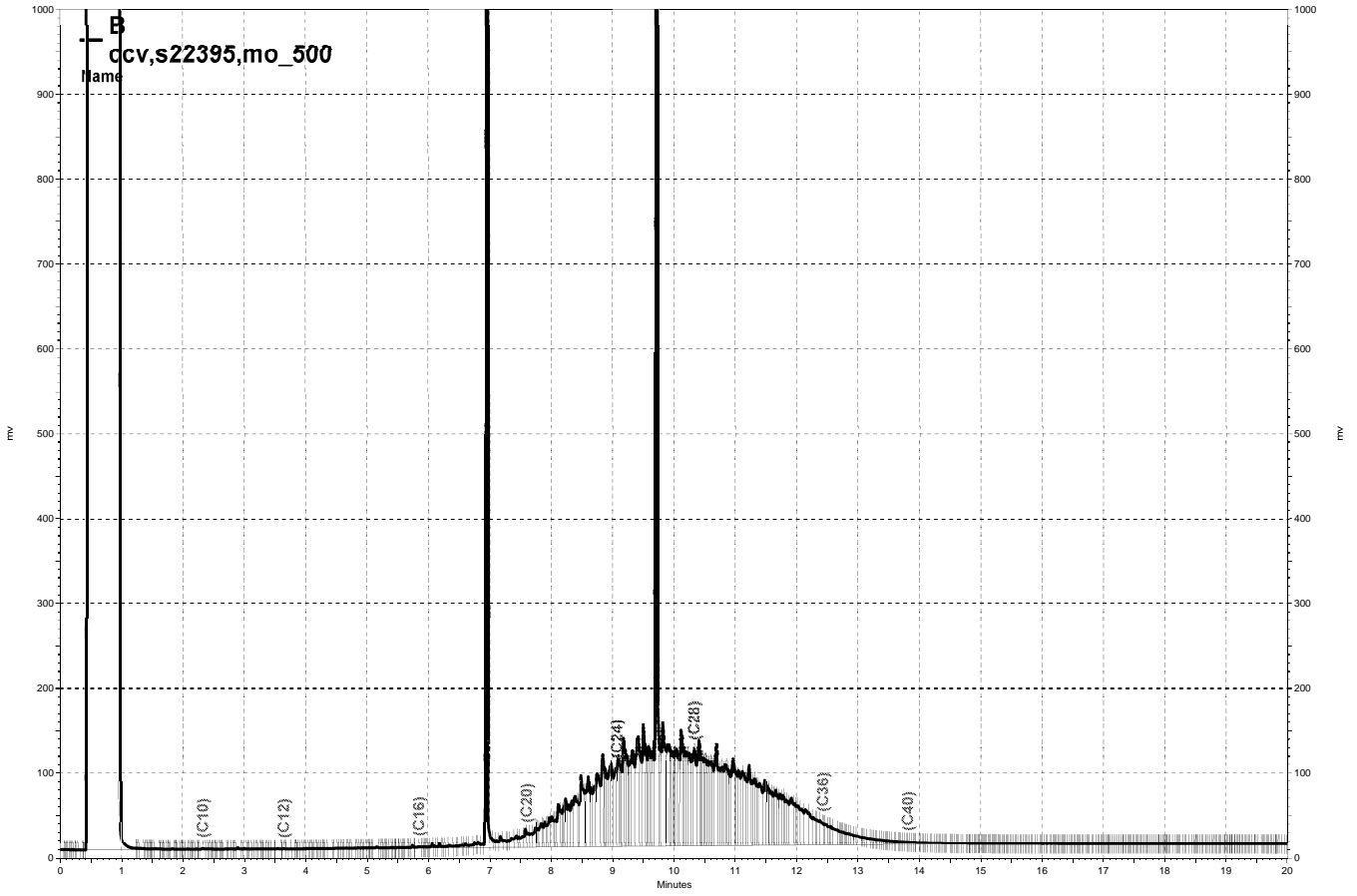
\\Lims\gdrive\ezchrom\Projects\GC14B\Data\157b009, B



\\Lims\gdrive\ezchrom\Projects\GC14B\Data\157b011, B



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\157b004, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\157b005, B

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-C-4	Diln Fac:	0.8251
Lab ID:	245882-001	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Freon 12	ND	8.3
Chloromethane	ND	8.3
Vinyl Chloride	ND	8.3
Bromomethane	ND	8.3
Chloroethane	ND	8.3
Trichlorofluoromethane	ND	4.1
Acetone	ND	17
Freon 113	ND	4.1
1,1-Dichloroethene	ND	4.1
Methylene Chloride	ND	17
Carbon Disulfide	ND	4.1
MTBE	ND	4.1
trans-1,2-Dichloroethene	ND	4.1
Vinyl Acetate	ND	41
1,1-Dichloroethane	ND	4.1
2-Butanone	ND	8.3
cis-1,2-Dichloroethene	ND	4.1
2,2-Dichloropropane	ND	4.1
Chloroform	ND	4.1
Bromochloromethane	ND	4.1
1,1,1-Trichloroethane	ND	4.1
1,1-Dichloropropene	ND	4.1
Carbon Tetrachloride	ND	4.1
1,2-Dichloroethane	ND	4.1
Benzene	ND	4.1
Trichloroethene	ND	4.1
1,2-Dichloropropane	ND	4.1
Bromodichloromethane	ND	4.1
Dibromomethane	ND	4.1
4-Methyl-2-Pentanone	ND	8.3
cis-1,3-Dichloropropene	ND	4.1
Toluene	ND	4.1
trans-1,3-Dichloropropene	ND	4.1
1,1,2-Trichloroethane	ND	4.1
2-Hexanone	ND	8.3
1,3-Dichloropropane	ND	4.1
Tetrachloroethene	ND	4.1

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-C-4	Diln Fac:	0.8251
Lab ID:	245882-001	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Dibromochloromethane	ND	4.1
1,2-Dibromoethane	ND	4.1
Chlorobenzene	ND	4.1
1,1,1,2-Tetrachloroethane	ND	4.1
Ethylbenzene	ND	4.1
m,p-Xylenes	ND	4.1
o-Xylene	ND	4.1
Styrene	ND	4.1
Bromoform	ND	4.1
Isopropylbenzene	ND	4.1
1,1,2,2-Tetrachloroethane	ND	4.1
1,2,3-Trichloropropane	ND	4.1
Propylbenzene	ND	4.1
Bromobenzene	ND	4.1
1,3,5-Trimethylbenzene	ND	4.1
2-Chlorotoluene	ND	4.1
4-Chlorotoluene	ND	4.1
tert-Butylbenzene	ND	4.1
1,2,4-Trimethylbenzene	ND	4.1
sec-Butylbenzene	ND	4.1
para-Isopropyl Toluene	ND	4.1
1,3-Dichlorobenzene	ND	4.1
1,4-Dichlorobenzene	ND	4.1
n-Butylbenzene	ND	4.1
1,2-Dichlorobenzene	ND	4.1
1,2-Dibromo-3-Chloropropane	ND	4.1
1,2,4-Trichlorobenzene	ND	4.1
Hexachlorobutadiene	ND	4.1
Naphthalene	ND	4.1
1,2,3-Trichlorobenzene	ND	4.1

Surrogate	%REC	Limits
Dibromofluoromethane	107	80-124
1,2-Dichloroethane-d4	93	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	102	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-D-4	Diln Fac:	0.9434
Lab ID:	245882-002	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-D-4	Diln Fac:	0.9434
Lab ID:	245882-002	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-124
1,2-Dichloroethane-d4	97	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	101	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-B-4	Diln Fac:	0.8726
Lab ID:	245882-003	Batch#:	199361
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Freon 12	ND	8.7
Chloromethane	ND	8.7
Vinyl Chloride	ND	8.7
Bromomethane	ND	8.7
Chloroethane	ND	8.7
Trichlorofluoromethane	ND	4.4
Acetone	ND	17
Freon 113	ND	4.4
1,1-Dichloroethene	ND	4.4
Methylene Chloride	ND	17
Carbon Disulfide	ND	4.4
MTBE	ND	4.4
trans-1,2-Dichloroethene	ND	4.4
Vinyl Acetate	ND	44
1,1-Dichloroethane	ND	4.4
2-Butanone	ND	8.7
cis-1,2-Dichloroethene	ND	4.4
2,2-Dichloropropane	ND	4.4
Chloroform	ND	4.4
Bromochloromethane	ND	4.4
1,1,1-Trichloroethane	ND	4.4
1,1-Dichloropropene	ND	4.4
Carbon Tetrachloride	ND	4.4
1,2-Dichloroethane	ND	4.4
Benzene	ND	4.4
Trichloroethene	ND	4.4
1,2-Dichloropropane	ND	4.4
Bromodichloromethane	ND	4.4
Dibromomethane	ND	4.4
4-Methyl-2-Pentanone	ND	8.7
cis-1,3-Dichloropropene	ND	4.4
Toluene	ND	4.4
trans-1,3-Dichloropropene	ND	4.4
1,1,2-Trichloroethane	ND	4.4
2-Hexanone	ND	8.7
1,3-Dichloropropane	ND	4.4
Tetrachloroethene	ND	4.4

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-B-4	Diln Fac:	0.8726
Lab ID:	245882-003	Batch#:	199361
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Dibromochloromethane	ND	4.4
1,2-Dibromoethane	ND	4.4
Chlorobenzene	ND	4.4
1,1,1,2-Tetrachloroethane	ND	4.4
Ethylbenzene	ND	4.4
m,p-Xylenes	ND	4.4
o-Xylene	ND	4.4
Styrene	ND	4.4
Bromoform	ND	4.4
Isopropylbenzene	ND	4.4
1,1,2,2-Tetrachloroethane	ND	4.4
1,2,3-Trichloropropane	ND	4.4
Propylbenzene	ND	4.4
Bromobenzene	ND	4.4
1,3,5-Trimethylbenzene	ND	4.4
2-Chlorotoluene	ND	4.4
4-Chlorotoluene	ND	4.4
tert-Butylbenzene	ND	4.4
1,2,4-Trimethylbenzene	ND	4.4
sec-Butylbenzene	ND	4.4
para-Isopropyl Toluene	ND	4.4
1,3-Dichlorobenzene	ND	4.4
1,4-Dichlorobenzene	ND	4.4
n-Butylbenzene	ND	4.4
1,2-Dichlorobenzene	ND	4.4
1,2-Dibromo-3-Chloropropane	ND	4.4
1,2,4-Trichlorobenzene	ND	4.4
Hexachlorobutadiene	ND	4.4
Naphthalene	ND	4.4
1,2,3-Trichlorobenzene	ND	4.4

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-124
1,2-Dichloroethane-d4	96	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	112	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-E-4	Diln Fac:	1.029
Lab ID:	245882-004	Batch#:	199361
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.1
Acetone	ND	21
Freon 113	ND	5.1
1,1-Dichloroethene	ND	5.1
Methylene Chloride	ND	21
Carbon Disulfide	ND	5.1
MTBE	ND	5.1
trans-1,2-Dichloroethene	ND	5.1
Vinyl Acetate	ND	51
1,1-Dichloroethane	ND	5.1
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.1
2,2-Dichloropropane	ND	5.1
Chloroform	ND	5.1
Bromochloromethane	ND	5.1
1,1,1-Trichloroethane	ND	5.1
1,1-Dichloropropene	ND	5.1
Carbon Tetrachloride	ND	5.1
1,2-Dichloroethane	ND	5.1
Benzene	ND	5.1
Trichloroethene	ND	5.1
1,2-Dichloropropane	ND	5.1
Bromodichloromethane	ND	5.1
Dibromomethane	ND	5.1
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.1
Toluene	ND	5.1
trans-1,3-Dichloropropene	ND	5.1
1,1,2-Trichloroethane	ND	5.1
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.1
Tetrachloroethene	ND	5.1

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-E-4	Diln Fac:	1.029
Lab ID:	245882-004	Batch#:	199361
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Dibromochloromethane	ND	5.1
1,2-Dibromoethane	ND	5.1
Chlorobenzene	ND	5.1
1,1,1,2-Tetrachloroethane	ND	5.1
Ethylbenzene	ND	5.1
m,p-Xylenes	ND	5.1
o-Xylene	ND	5.1
Styrene	ND	5.1
Bromoform	ND	5.1
Isopropylbenzene	ND	5.1
1,1,2,2-Tetrachloroethane	ND	5.1
1,2,3-Trichloropropane	ND	5.1
Propylbenzene	ND	5.1
Bromobenzene	ND	5.1
1,3,5-Trimethylbenzene	ND	5.1
2-Chlorotoluene	ND	5.1
4-Chlorotoluene	ND	5.1
tert-Butylbenzene	ND	5.1
1,2,4-Trimethylbenzene	ND	5.1
sec-Butylbenzene	ND	5.1
para-Isopropyl Toluene	ND	5.1
1,3-Dichlorobenzene	ND	5.1
1,4-Dichlorobenzene	ND	5.1
n-Butylbenzene	ND	5.1
1,2-Dichlorobenzene	ND	5.1
1,2-Dibromo-3-Chloropropane	ND	5.1
1,2,4-Trichlorobenzene	ND	5.1
Hexachlorobutadiene	ND	5.1
Naphthalene	ND	5.1
1,2,3-Trichlorobenzene	ND	5.1

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-124
1,2-Dichloroethane-d4	100	80-137
Toluene-d8	107	80-120
Bromofluorobenzene	115	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-A-4	Diln Fac:	0.9615
Lab ID:	245882-005	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Freon 12	ND	9.6
Chloromethane	ND	9.6
Vinyl Chloride	ND	9.6
Bromomethane	ND	9.6
Chloroethane	ND	9.6
Trichlorofluoromethane	ND	4.8
Acetone	ND	19
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.6
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.6
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.6
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-A-4	Diln Fac:	0.9615
Lab ID:	245882-005	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-124
1,2-Dichloroethane-d4	106	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	107	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-F-4	Diln Fac:	1.053
Lab ID:	245882-006	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Freon 12	ND	11
Chloromethane	ND	11
Vinyl Chloride	ND	11
Bromomethane	ND	11
Chloroethane	ND	11
Trichlorofluoromethane	ND	5.3
Acetone	ND	21
Freon 113	ND	5.3
1,1-Dichloroethene	ND	5.3
Methylene Chloride	ND	21
Carbon Disulfide	ND	5.3
MTBE	ND	5.3
trans-1,2-Dichloroethene	ND	5.3
Vinyl Acetate	ND	53
1,1-Dichloroethane	ND	5.3
2-Butanone	ND	11
cis-1,2-Dichloroethene	ND	5.3
2,2-Dichloropropane	ND	5.3
Chloroform	ND	5.3
Bromochloromethane	ND	5.3
1,1,1-Trichloroethane	ND	5.3
1,1-Dichloropropene	ND	5.3
Carbon Tetrachloride	ND	5.3
1,2-Dichloroethane	ND	5.3
Benzene	ND	5.3
Trichloroethene	ND	5.3
1,2-Dichloropropane	ND	5.3
Bromodichloromethane	ND	5.3
Dibromomethane	ND	5.3
4-Methyl-2-Pentanone	ND	11
cis-1,3-Dichloropropene	ND	5.3
Toluene	ND	5.3
trans-1,3-Dichloropropene	ND	5.3
1,1,2-Trichloroethane	ND	5.3
2-Hexanone	ND	11
1,3-Dichloropropane	ND	5.3
Tetrachloroethene	ND	5.3

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-F-4	Diln Fac:	1.053
Lab ID:	245882-006	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Dibromochloromethane	ND	5.3
1,2-Dibromoethane	ND	5.3
Chlorobenzene	ND	5.3
1,1,1,2-Tetrachloroethane	ND	5.3
Ethylbenzene	ND	5.3
m,p-Xylenes	ND	5.3
o-Xylene	ND	5.3
Styrene	ND	5.3
Bromoform	ND	5.3
Isopropylbenzene	ND	5.3
1,1,2,2-Tetrachloroethane	ND	5.3
1,2,3-Trichloropropane	ND	5.3
Propylbenzene	ND	5.3
Bromobenzene	ND	5.3
1,3,5-Trimethylbenzene	ND	5.3
2-Chlorotoluene	ND	5.3
4-Chlorotoluene	ND	5.3
tert-Butylbenzene	ND	5.3
1,2,4-Trimethylbenzene	ND	5.3
sec-Butylbenzene	ND	5.3
para-Isopropyl Toluene	ND	5.3
1,3-Dichlorobenzene	ND	5.3
1,4-Dichlorobenzene	ND	5.3
n-Butylbenzene	ND	5.3
1,2-Dichlorobenzene	ND	5.3
1,2-Dibromo-3-Chloropropane	ND	5.3
1,2,4-Trichlorobenzene	ND	5.3
Hexachlorobutadiene	ND	5.3
Naphthalene	ND	5.3
1,2,3-Trichlorobenzene	ND	5.3

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-124
1,2-Dichloroethane-d4	108	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	98	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-G-4	Diln Fac:	0.9381
Lab ID:	245882-007	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Freon 12	ND	9.4
Chloromethane	ND	9.4
Vinyl Chloride	ND	9.4
Bromomethane	ND	9.4
Chloroethane	ND	9.4
Trichlorofluoromethane	ND	4.7
Acetone	ND	19
Freon 113	ND	4.7
1,1-Dichloroethene	ND	4.7
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.7
MTBE	ND	4.7
trans-1,2-Dichloroethene	ND	4.7
Vinyl Acetate	ND	47
1,1-Dichloroethane	ND	4.7
2-Butanone	ND	9.4
cis-1,2-Dichloroethene	ND	4.7
2,2-Dichloropropane	ND	4.7
Chloroform	ND	4.7
Bromochloromethane	ND	4.7
1,1,1-Trichloroethane	ND	4.7
1,1-Dichloropropene	ND	4.7
Carbon Tetrachloride	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Trichloroethene	ND	4.7
1,2-Dichloropropane	ND	4.7
Bromodichloromethane	ND	4.7
Dibromomethane	ND	4.7
4-Methyl-2-Pentanone	ND	9.4
cis-1,3-Dichloropropene	ND	4.7
Toluene	ND	4.7
trans-1,3-Dichloropropene	ND	4.7
1,1,2-Trichloroethane	ND	4.7
2-Hexanone	ND	9.4
1,3-Dichloropropane	ND	4.7
Tetrachloroethene	ND	4.7

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-G-4	Diln Fac:	0.9381
Lab ID:	245882-007	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Dibromochloromethane	ND	4.7
1,2-Dibromoethane	ND	4.7
Chlorobenzene	ND	4.7
1,1,1,2-Tetrachloroethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Styrene	ND	4.7
Bromoform	ND	4.7
Isopropylbenzene	ND	4.7
1,1,2,2-Tetrachloroethane	ND	4.7
1,2,3-Trichloropropane	ND	4.7
Propylbenzene	ND	4.7
Bromobenzene	ND	4.7
1,3,5-Trimethylbenzene	ND	4.7
2-Chlorotoluene	ND	4.7
4-Chlorotoluene	ND	4.7
tert-Butylbenzene	ND	4.7
1,2,4-Trimethylbenzene	ND	4.7
sec-Butylbenzene	ND	4.7
para-Isopropyl Toluene	ND	4.7
1,3-Dichlorobenzene	ND	4.7
1,4-Dichlorobenzene	ND	4.7
n-Butylbenzene	ND	4.7
1,2-Dichlorobenzene	ND	4.7
1,2-Dibromo-3-Chloropropane	ND	4.7
1,2,4-Trichlorobenzene	ND	4.7
Hexachlorobutadiene	ND	4.7
Naphthalene	ND	4.7
1,2,3-Trichlorobenzene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	110	80-124
1,2-Dichloroethane-d4	111	80-137
Toluene-d8	103	80-120
Bromofluorobenzene	106	79-127

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-H-4	Diln Fac:	0.8547
Lab ID:	245882-008	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Freon 12	ND	8.5
Chloromethane	ND	8.5
Vinyl Chloride	ND	8.5
Bromomethane	ND	8.5
Chloroethane	ND	8.5
Trichlorofluoromethane	ND	4.3
Acetone	ND	17
Freon 113	ND	4.3
1,1-Dichloroethene	ND	4.3
Methylene Chloride	ND	17
Carbon Disulfide	ND	4.3
MTBE	ND	4.3
trans-1,2-Dichloroethene	ND	4.3
Vinyl Acetate	ND	43
1,1-Dichloroethane	ND	4.3
2-Butanone	ND	8.5
cis-1,2-Dichloroethene	ND	4.3
2,2-Dichloropropane	ND	4.3
Chloroform	ND	4.3
Bromochloromethane	ND	4.3
1,1,1-Trichloroethane	ND	4.3
1,1-Dichloropropene	ND	4.3
Carbon Tetrachloride	ND	4.3
1,2-Dichloroethane	ND	4.3
Benzene	ND	4.3
Trichloroethene	ND	4.3
1,2-Dichloropropane	ND	4.3
Bromodichloromethane	ND	4.3
Dibromomethane	ND	4.3
4-Methyl-2-Pentanone	ND	8.5
cis-1,3-Dichloropropene	ND	4.3
Toluene	ND	4.3
trans-1,3-Dichloropropene	ND	4.3
1,1,2-Trichloroethane	ND	4.3
2-Hexanone	ND	8.5
1,3-Dichloropropane	ND	4.3
Tetrachloroethene	ND	4.3

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX1-H-4	Diln Fac:	0.8547
Lab ID:	245882-008	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
Dibromochloromethane	ND	4.3
1,2-Dibromoethane	ND	4.3
Chlorobenzene	ND	4.3
1,1,1,2-Tetrachloroethane	ND	4.3
Ethylbenzene	ND	4.3
m,p-Xylenes	ND	4.3
o-Xylene	ND	4.3
Styrene	ND	4.3
Bromoform	ND	4.3
Isopropylbenzene	ND	4.3
1,1,2,2-Tetrachloroethane	ND	4.3
1,2,3-Trichloropropane	ND	4.3
Propylbenzene	ND	4.3
Bromobenzene	ND	4.3
1,3,5-Trimethylbenzene	ND	4.3
2-Chlorotoluene	ND	4.3
4-Chlorotoluene	ND	4.3
tert-Butylbenzene	ND	4.3
1,2,4-Trimethylbenzene	ND	4.3
sec-Butylbenzene	ND	4.3
para-Isopropyl Toluene	ND	4.3
1,3-Dichlorobenzene	ND	4.3
1,4-Dichlorobenzene	ND	4.3
n-Butylbenzene	ND	4.3
1,2-Dichlorobenzene	ND	4.3
1,2-Dibromo-3-Chloropropane	ND	4.3
1,2,4-Trichlorobenzene	ND	4.3
Hexachlorobutadiene	ND	4.3
Naphthalene	ND	4.3
1,2,3-Trichlorobenzene	ND	4.3

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-124
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	96	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-A-4	Diln Fac:	0.8361
Lab ID:	245882-009	Batch#:	199362
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	84
MTBE	ND	4.2
Isopropyl Ether (DIPE)	ND	4.2
Ethyl tert-Butyl Ether (ETBE)	ND	4.2
1,2-Dichloroethane	ND	4.2
Benzene	ND	4.2
Methyl tert-Amyl Ether (TAME)	ND	4.2
Toluene	ND	4.2
1,2-Dibromoethane	ND	4.2
Ethylbenzene	ND	4.2
m,p-Xylenes	ND	4.2
o-Xylene	ND	4.2
Naphthalene	ND	4.2

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-124
1,2-Dichloroethane-d4	111	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	108	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-B-4	Diln Fac:	0.9542
Lab ID:	245882-010	Batch#:	199361
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	95
MTBE	ND	4.8
Isopropyl Ether (DIPE)	ND	4.8
Ethyl tert-Butyl Ether (ETBE)	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Methyl tert-Amyl Ether (TAME)	ND	4.8
Toluene	ND	4.8
1,2-Dibromoethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Naphthalene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-124
1,2-Dichloroethane-d4	121	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	124	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-C-4	Diln Fac:	0.8591
Lab ID:	245882-011	Batch#:	199361
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	86
MTBE	ND	4.3
Isopropyl Ether (DIPE)	ND	4.3
Ethyl tert-Butyl Ether (ETBE)	ND	4.3
1,2-Dichloroethane	ND	4.3
Benzene	ND	4.3
Methyl tert-Amyl Ether (TAME)	ND	4.3
Toluene	ND	4.3
1,2-Dibromoethane	ND	4.3
Ethylbenzene	ND	4.3
m,p-Xylenes	ND	4.3
o-Xylene	ND	4.3
Naphthalene	ND	4.3

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	96	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	125	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Field ID:	EX2-D-4	Diln Fac:	0.6313
Lab ID:	245882-012	Batch#:	199361
Matrix:	Soil	Sampled:	06/05/13
Units:	ug/Kg	Received:	06/05/13
Basis:	as received	Analyzed:	06/05/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	63
MTBE	ND	3.2
Isopropyl Ether (DIPE)	ND	3.2
Ethyl tert-Butyl Ether (ETBE)	ND	3.2
1,2-Dichloroethane	ND	3.2
Benzene	ND	3.2
Methyl tert-Amyl Ether (TAME)	ND	3.2
Toluene	ND	3.2
1,2-Dibromoethane	ND	3.2
Ethylbenzene	ND	3.2
m,p-Xylenes	ND	3.2
o-Xylene	ND	3.2
Naphthalene	ND	3.2

Surrogate	%REC	Limits
Dibromofluoromethane	112	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	108	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692259	Batch#:	199361
Matrix:	Soil	Analyzed:	06/05/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692259	Batch#:	199361
Matrix:	Soil	Analyzed:	06/05/13
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	104	79-127

ND= Not Detected

RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692259	Batch#:	199361
Matrix:	Soil	Analyzed:	06/05/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	104	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199361
Units:	ug/Kg	Analyzed:	06/05/13
Diln Fac:	1.000		

Type: BS Lab ID: QC692260

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	20.80	104	67-132
Benzene	20.00	20.36	102	77-126
Trichloroethene	20.00	20.31	102	76-127
Toluene	20.00	19.94	100	76-124
Chlorobenzene	20.00	19.78	99	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	109	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	113	79-127

Type: BSD Lab ID: QC692261

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	20.00	23.36	117	67-132	12	27
Benzene	20.00	23.04	115	77-126	12	20
Trichloroethene	20.00	25.41	127	76-127	22	22
Toluene	20.00	22.34	112	76-124	11	26
Chlorobenzene	20.00	21.67	108	76-120	9	21

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	110	80-137
Toluene-d8	94	80-120
Bromofluorobenzene	111	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199361
Units:	ug/Kg	Analyzed:	06/05/13
Diln Fac:	1.000		

Type: BS Lab ID: QC692260

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	133.1	133	53-141
MTBE	20.00	20.66	103	65-121
Isopropyl Ether (DIPE)	20.00	17.49	87	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	18.79	94	62-121
1,2-Dichloroethane	20.00	23.61	118	74-133
Benzene	20.00	20.36	102	77-126
Methyl tert-Amyl Ether (TAME)	20.00	21.58	108	66-120
Toluene	20.00	19.94	100	76-124
1,2-Dibromoethane	20.00	23.88	119	78-120
Ethylbenzene	20.00	19.04	95	76-127
m,p-Xylenes	40.00	39.66	99	74-126
o-Xylene	20.00	20.83	104	70-120

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	109	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	113	79-127

Type: BSD Lab ID: QC692261

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	136.0	136	53-141	2	34
MTBE	20.00	21.56	108	65-121	4	22
Isopropyl Ether (DIPE)	20.00	19.42	97	57-122	10	26
Ethyl tert-Butyl Ether (ETBE)	20.00	19.29	96	62-121	3	28
1,2-Dichloroethane	20.00	25.10	125	74-133	6	23
Benzene	20.00	23.04	115	77-126	12	20
Methyl tert-Amyl Ether (TAME)	20.00	21.60	108	66-120	0	24
Toluene	20.00	22.34	112	76-124	11	26
1,2-Dibromoethane	20.00	24.88	124 *	78-120	4	20
Ethylbenzene	20.00	21.10	105	76-127	10	24
m,p-Xylenes	40.00	44.07	110	74-126	11	24
o-Xylene	20.00	21.97	110	70-120	5	22

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	110	80-137
Toluene-d8	94	80-120
Bromofluorobenzene	111	79-127

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692262	Batch#:	199362
Matrix:	Soil	Analyzed:	06/05/13
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692262	Batch#:	199362
Matrix:	Soil	Analyzed:	06/05/13
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-124
1,2-Dichloroethane-d4	94	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	96	79-127

ND= Not Detected

RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692262	Batch#:	199362
Matrix:	Soil	Analyzed:	06/05/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-124
1,2-Dichloroethane-d4	94	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	96	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199362
Units:	ug/Kg	Analyzed:	06/05/13
Diln Fac:	1.000		

Type: BS Lab ID: QC692263

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	23.47	117	67-132
Benzene	20.00	22.67	113	77-126
Trichloroethene	20.00	21.12	106	76-127
Toluene	20.00	20.48	102	76-124
Chlorobenzene	20.00	21.14	106	76-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-124
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	97	79-127

Type: BSD Lab ID: QC692264

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	20.00	23.74	119	67-132	1	27
Benzene	20.00	23.26	116	77-126	3	20
Trichloroethene	20.00	21.21	106	76-127	0	22
Toluene	20.00	22.29	111	76-124	8	26
Chlorobenzene	20.00	21.82	109	76-120	3	21

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-124
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	105	80-120
Bromofluorobenzene	96	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 5035
Project#:	AWR 13-05	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	199362
Units:	ug/Kg	Analyzed:	06/05/13
Diln Fac:	1.000		

Type: BS Lab ID: QC692263

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	99.89	100	53-141
MTBE	20.00	19.45	97	65-121
Isopropyl Ether (DIPE)	20.00	20.59	103	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	20.08	100	62-121
1,2-Dichloroethane	20.00	22.12	111	74-133
Benzene	20.00	22.67	113	77-126
Methyl tert-Amyl Ether (TAME)	20.00	19.92	100	66-120
Toluene	20.00	20.48	102	76-124
1,2-Dibromoethane	20.00	20.69	103	78-120
Ethylbenzene	20.00	20.65	103	76-127
m,p-Xylenes	40.00	44.05	110	74-126
o-Xylene	20.00	21.66	108	70-120

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-124
1,2-Dichloroethane-d4	103	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	97	79-127

Type: BSD Lab ID: QC692264

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	94.70	95	53-141	5	34
MTBE	20.00	18.04	90	65-121	8	22
Isopropyl Ether (DIPE)	20.00	19.52	98	57-122	5	26
Ethyl tert-Butyl Ether (ETBE)	20.00	19.35	97	62-121	4	28
1,2-Dichloroethane	20.00	21.87	109	74-133	1	23
Benzene	20.00	23.26	116	77-126	3	20
Methyl tert-Amyl Ether (TAME)	20.00	19.77	99	66-120	1	24
Toluene	20.00	22.29	111	76-124	8	26
1,2-Dibromoethane	20.00	22.15	111	78-120	7	20
Ethylbenzene	20.00	21.59	108	76-127	4	24
m,p-Xylenes	40.00	44.99	112	74-126	2	24
o-Xylene	20.00	21.61	108	70-120	0	22

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-124
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	105	80-120
Bromofluorobenzene	96	79-127

RPD= Relative Percent Difference

Semivolatile Organics by GC/MS SIM

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	EX1-C-4	Batch#:	199376
Lab ID:	245882-001	Sampled:	06/05/13
Matrix:	Soil	Received:	06/05/13
Units:	ug/Kg	Prepared:	06/05/13
Basis:	as received	Analyzed:	06/06/13
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo(a)anthracene	ND	5.0
Chrysene	ND	5.0
Benzo(b)fluoranthene	ND	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	79	46-120
2-Fluorobiphenyl	74	53-120
Terphenyl-d14	80	53-127

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	EX1-D-4	Batch#:	199376
Lab ID:	245882-002	Sampled:	06/05/13
Matrix:	Soil	Received:	06/05/13
Units:	ug/Kg	Prepared:	06/05/13
Basis:	as received	Analyzed:	06/06/13
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	5.2	5.0
Benzo(a)anthracene	7.1	5.0
Chrysene	6.2	5.0
Benzo(b)fluoranthene	8.2	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	6.6	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	78	46-120
2-Fluorobiphenyl	69	53-120
Terphenyl-d14	75	53-127

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	EX1-B-4	Batch#:	199376
Lab ID:	245882-003	Sampled:	06/05/13
Matrix:	Soil	Received:	06/05/13
Units:	ug/Kg	Prepared:	06/05/13
Basis:	as received	Analyzed:	06/06/13
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo(a)anthracene	ND	5.0
Chrysene	ND	5.0
Benzo(b)fluoranthene	ND	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	77	46-120
2-Fluorobiphenyl	70	53-120
Terphenyl-d14	80	53-127

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	EX1-E-4	Batch#:	199376
Lab ID:	245882-004	Sampled:	06/05/13
Matrix:	Soil	Received:	06/05/13
Units:	ug/Kg	Prepared:	06/05/13
Basis:	as received	Analyzed:	06/06/13
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo(a)anthracene	ND	5.0
Chrysene	ND	5.0
Benzo(b)fluoranthene	ND	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	80	46-120
2-Fluorobiphenyl	71	53-120
Terphenyl-d14	79	53-127

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	EX1-A-4	Batch#:	199376
Lab ID:	245882-005	Sampled:	06/05/13
Matrix:	Soil	Received:	06/05/13
Units:	ug/Kg	Prepared:	06/05/13
Basis:	as received	Analyzed:	06/06/13

Analyte	Result	RL	Diln Fac
Naphthalene	100	5.0	1.000
Acenaphthylene	49	5.0	1.000
Acenaphthene	25	5.0	1.000
Fluorene	89	5.0	1.000
Phenanthrene	720	25	5.000
Anthracene	210	5.0	1.000
Fluoranthene	550	25	5.000
Pyrene	530	25	5.000
Benzo(a)anthracene	370	25	5.000
Chrysene	300	5.0	1.000
Benzo(b)fluoranthene	270	5.0	1.000
Benzo(k)fluoranthene	87	5.0	1.000
Benzo(a)pyrene	280	5.0	1.000
Indeno(1,2,3-cd)pyrene	120	25	5.000
Dibenz(a,h)anthracene	57	5.0	1.000
Benzo(g,h,i)perylene	110	5.0	1.000

Surrogate	%REC	Limits	Diln Fac
Nitrobenzene-d5	84	46-120	1.000
2-Fluorobiphenyl	69	53-120	1.000
Terphenyl-d14	71	53-127	1.000

RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	EX1-F-4	Batch#:	199376
Lab ID:	245882-006	Sampled:	06/05/13
Matrix:	Soil	Received:	06/05/13
Units:	ug/Kg	Prepared:	06/05/13
Basis:	as received	Analyzed:	06/06/13
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	ND	4.9
Acenaphthylene	ND	4.9
Acenaphthene	ND	4.9
Fluorene	ND	4.9
Phenanthrene	6.6	4.9
Anthracene	ND	4.9
Fluoranthene	9.9	4.9
Pyrene	12	4.9
Benzo(a)anthracene	13	4.9
Chrysene	15	4.9
Benzo(b)fluoranthene	29	4.9
Benzo(k)fluoranthene	6.7	4.9
Benzo(a)pyrene	19	4.9
Indeno(1,2,3-cd)pyrene	16	4.9
Dibenz(a,h)anthracene	7.6	4.9
Benzo(g,h,i)perylene	23	4.9

Surrogate	%REC	Limits
Nitrobenzene-d5	88	46-120
2-Fluorobiphenyl	73	53-120
Terphenyl-d14	80	53-127

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	EX1-G-4	Batch#:	199376
Lab ID:	245882-007	Sampled:	06/05/13
Matrix:	Soil	Received:	06/05/13
Units:	ug/Kg	Prepared:	06/05/13
Basis:	as received	Analyzed:	06/06/13
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	ND	4.9
Acenaphthylene	ND	4.9
Acenaphthene	ND	4.9
Fluorene	ND	4.9
Phenanthrene	ND	4.9
Anthracene	ND	4.9
Fluoranthene	ND	4.9
Pyrene	ND	4.9
Benzo(a)anthracene	ND	4.9
Chrysene	ND	4.9
Benzo(b)fluoranthene	ND	4.9
Benzo(k)fluoranthene	ND	4.9
Benzo(a)pyrene	ND	4.9
Indeno(1,2,3-cd)pyrene	ND	4.9
Dibenz(a,h)anthracene	ND	4.9
Benzo(g,h,i)perylene	ND	4.9

Surrogate	%REC	Limits
Nitrobenzene-d5	80	46-120
2-Fluorobiphenyl	66	53-120
Terphenyl-d14	71	53-127

ND= Not Detected
 RL= Reporting Limit

Semivolatile Organics by GC/MS SIM

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	EX1-H-4	Batch#:	199376
Lab ID:	245882-008	Sampled:	06/05/13
Matrix:	Soil	Received:	06/05/13
Units:	ug/Kg	Prepared:	06/05/13
Basis:	as received	Analyzed:	06/06/13
Diln Fac:	1.000		

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	14	5.0
Pyrene	13	5.0
Benzo(a)anthracene	16	5.0
Chrysene	13	5.0
Benzo(b)fluoranthene	19	5.0
Benzo(k)fluoranthene	6.0	5.0
Benzo(a)pyrene	15	5.0
Indeno(1,2,3-cd)pyrene	11	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	11	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	83	46-120
2-Fluorobiphenyl	70	53-120
Terphenyl-d14	75	53-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report
Semivolatile Organics by GC/MS SIM

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC692327	Batch#:	199376
Matrix:	Soil	Prepared:	06/05/13
Units:	ug/Kg	Analyzed:	06/06/13

Analyte	Result	RL
Naphthalene	ND	5.0
Acenaphthylene	ND	5.0
Acenaphthene	ND	5.0
Fluorene	ND	5.0
Phenanthrene	ND	5.0
Anthracene	ND	5.0
Fluoranthene	ND	5.0
Pyrene	ND	5.0
Benzo(a)anthracene	ND	5.0
Chrysene	ND	5.0
Benzo(b)fluoranthene	ND	5.0
Benzo(k)fluoranthene	ND	5.0
Benzo(a)pyrene	ND	5.0
Indeno(1,2,3-cd)pyrene	ND	5.0
Dibenz(a,h)anthracene	ND	5.0
Benzo(g,h,i)perylene	ND	5.0

Surrogate	%REC	Limits
Nitrobenzene-d5	100	46-120
2-Fluorobiphenyl	89	53-120
Terphenyl-d14	102	53-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report
Semivolatile Organics by GC/MS SIM

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Field ID:	EX1-C-4	Batch#:	199376
MSS Lab ID:	245882-001	Sampled:	06/05/13
Matrix:	Soil	Received:	06/05/13
Units:	ug/Kg	Prepared:	06/05/13
Basis:	as received	Analyzed:	06/06/13
Diln Fac:	1.000		

Type: MS Lab ID: QC692329

Analyte	MSS Result	Spiked	Result	%REC	Limits
Acenaphthene	<0.9997	32.93	30.49	93	43-120
Pyrene	<0.9997	32.93	30.73	93	10-153

Surrogate	%REC	Limits
Nitrobenzene-d5	100	46-120
2-Fluorobiphenyl	93	53-120
Terphenyl-d14	103	53-127

Type: MSD Lab ID: QC692330

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Acenaphthene	33.30	29.16	88	43-120	6	51
Pyrene	33.30	32.50	98	10-153	4	71

Surrogate	%REC	Limits
Nitrobenzene-d5	95	46-120
2-Fluorobiphenyl	86	53-120
Terphenyl-d14	107	53-127

RPD= Relative Percent Difference

Batch QC Report

Semivolatile Organics by GC/MS SIM

Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3550B
Project#:	AWR 13-05	Analysis:	EPA 8270C-SIM
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC692498	Batch#:	199376
Matrix:	Soil	Prepared:	06/06/13
Units:	ug/Kg	Analyzed:	06/06/13

Analyte	Spiked	Result	%REC	Limits
Acenaphthene	33.27	31.14	94	47-120
Pyrene	33.27	32.43	97	44-120

Surrogate	%REC	Limits
Nitrobenzene-d5	95	46-120
2-Fluorobiphenyl	91	53-120
Terphenyl-d14	106	53-127

Batch QC Report

California LUFT Metals			
Lab #:	245882	Location:	2250 Telegraph
Client:	Applied Water Resources	Prep:	EPA 3050B
Project#:	AWR 13-05	Analysis:	EPA 6010B
Field ID:	ZZZZZZZZZZ	Batch#:	199385
MSS Lab ID:	245847-001	Sampled:	06/04/13
Matrix:	Soil	Received:	06/04/13
Units:	mg/Kg	Prepared:	06/05/13
Basis:	as received	Analyzed:	06/06/13
Diln Fac:	1.000		

Type: MS Lab ID: QC692375

Analyte	MSS Result	Spiked	Result	%REC	Limits
Cadmium	0.2559	48.08	37.91	78	69-120
Chromium	6.965	48.08	43.98	77	60-122
Lead	146.6	48.08	169.0	46 *	52-120
Nickel	16.35	48.08	51.24	73	45-134
Zinc	241.4	48.08	290.2	101 NM	38-146

Type: MSD Lab ID: QC692376

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Cadmium	46.73	37.04	79	69-120	0	23
Chromium	46.73	41.74	74	60-122	3	34
Lead	46.73	123.9	-49 *	52-120	30	51
Nickel	46.73	47.68	67	45-134	5	38
Zinc	46.73	236.3	-11 NM	38-146	20	36

*= Value outside of QC limits; see narrative

NM= Not Meaningful: Sample concentration > 4X spike concentration

RPD= Relative Percent Difference

APPENDIX D

WASTE MANIFESTS



InStrat, Inc.

A liquid-waste disposal company

P.O. Box 2279 (530) 753-1829
Davis, CA 95617

№ 17485

CUSTOMER P.O. **AWY 1305**

DATE **6/28/13**

DAY OF WEEK **Fri.**

CHARGE TO **Applied Water Resources**
ADDRESS **1600 Rivera Ave. # 310**
Walnut Creek CA 94596

ORIGIN **Daves Station**
2250 Telegraph Ave
DESTINATION **Oakland CA**

DESCRIPTION		QTY / HRS	RATE	CHARGES	
Monitoring well dewatering / pump test					
Auger rinse	Underground storage tank (UST)				
Spill/ release (not UST related)	<input checked="" type="checkbox"/> Surface Impoundment EXCAVATION	4000	34	1360	-
Drums	Above ground storage tank				
<input checked="" type="checkbox"/> Solids		2	75	150	-
<input checked="" type="checkbox"/> Washout		1	40	40	-
Color Blue	Sani-chlor Clear flux	2	22	44	-
Odor Ø	Filters TRANSPORTATION	5.25	113	593	25
Solids Mud / Fine	Powersorb Sheet				
Other	Powersorb Boom Bridge toll	1	25	25	-
Transporter W.F. Games.	THIS TOTAL WILL STAND AS CORRECT UNLESS NOTIFIED OF CORRECTION WITHIN FIVE DAYS	15%	354.00	SALES TAX	89
	TERMS NET 30 DAYS. THE CUSTOMER AGREES TO PAY A FINANCE CHARGE OF 2% PER MONTH, WHICH IS AN ANNUAL RATE OF 24% ON PAST DUE ACCOUNTS.			TOTAL TO COLLECT	2301.25
	SIGNED BY X [Signature]				25

NON-HAZARDOUS Waste Hauler Document Daily Field Ticket No. 85529 82809

GENERATOR

Name: Buttner Properties

EPA # _____

Address: 2250 Telegraph
Oakland, CA

Order Placed: _____ Order Date: _____

DESIGNATED TSD FACILITY

Name: Instal Inc.

EPA # _____

Address: 1105C Airport Rd
Rio Vista CA
94571

ALTERNATE TDS FACILITY

Name: _____

EPA # _____

Address: _____

WASTE

- DRILLING MUD

- GASWELL WATER

- OTHER Purge Water

Weight/Volume 4000

Units Gallons

Container: - Dump Truck

- Tank Truck

This material is nonhazardous because:

- 1) it is a drilling mud containing only the additives listed by the Department in its exemption letter and contains no significant concentrations of toxic materials from natural sources, or
- 2) is a sulfur-dioxide scrubber solution from a sodium hydroxide or sodium carbonate oil field boiler scrubber system, and possesses no characteristics that would require its handling as a hazardous waste:

Loge J C AWR 6/28/13
SIGNATURE OF AUTHORIZED AGENT DATE

TRANSPORTER

Warren E. Gomes Exc., Inc.
P. O. Box 369
Rio Vista, CA 94571
(707) 374-2881
EPA # CAD076557370

AWR 1503

Job No. Daves station Oakland CA
2250 Telegraph Ave

Unit No. 21 114

Pick-Up Date 6/28/13
Albert C...
SIGNATURE OF BUYER

TSD FACILITY

Name: FSI

EPA # _____

QTY Measured 4000 gal

- BBL - TONS - OTHER

Method of Disposal:

- Injection Well
- Landfill
- Land Treatment
- Surface Impoundment
- Other SIAC

Patrick M. Hugh...
SIGNATURE OF AUTHORIZED AGENT

6/28/13
DATE

TSD TO GENERATOR



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055563

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, Owner's Name, and Waste Profile table.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Form I continuation: Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent Name, Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, Friable/Non-Friable status, and Operator's Name, Signature, and Date.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055564

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number NA		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Autlow Properties 7200 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Autlow Properties, Inc 7200 Telegraph Ave Oakland CA 94612		
f. Phone: 510 872 3400			g. Phone: 510 872 3400		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No.	n. Total Quantity
				Type	Unit Wt/Vol
Q1213540	2/1/2012	Asbestos		1	18
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Loren Linderman			q. Signature <i>[Signature]</i>		r. Date 6/19/12

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Acher Canyon Landfill 101 Bailey Rd Oakland CA 94612		b. US EPA Number	c. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
h. Signature			
Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055565

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, Owner's Name, and Waste Profile table.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos handling information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, Friable/Non-Friable checkboxes, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055566

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone, Owner's Name, Waste Profile #, Exp. Date, Waste Shipping Name and Description, Containers No., Total Quantity, Unit, Generator Authorized Agent Name, Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Transporter's Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, Authorized Agent Name, Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Phone, Special Handling Instructions, Friable/Non-Friable status, Operator's Certification, Operator's Name and Title, Signature, and Date.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055567

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number VA		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Rutner Properties 260 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Rutner Properties Inc 300 West Grand Ave Oakland CA 94612			
f. Phone: 510-837-1500			g. Phone: 510-837-1500			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity	o. Unit Wt/Vol
			No.	Type		
0212130640	4/19/2011	Soil	1		18	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print) Loren L. ...			q. Signature <i>[Signature]</i>		r. Date 6/19/11	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 201 Kelly Rd Oakland CA 94612		b.	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print)		f. Signature		g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055568

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Bulmer Properties 250 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Bulmer Properties Inc 500 West Grand Ave Oakland CA 94612		
f. Phone: 510 432 3450		g. Phone: 510 432 3450		h. Owner's Name:	
If owner of the generating facility differs from the generator, provide:			i. Owner's Phone No.:		
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers
					n. Total Quantity
					o. Unit Wt/Vol
4212139649		4/1/2011	AS		1
					18
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Loren Lindenberg			q. Signature <i>[Signature]</i>		r. Date 6/19/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: TRUCK CO, DODGE TRUCK		
b. Phone: 708 472 1122		
c. Driver Name (Print) [Name]		d. Signature <i>[Signature]</i>
		e. Date 6/19/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 301 Bailey Rd Ottawa CA 94598		b. US EPA Number	c. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
<input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055569

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number NA		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Sultrac Properties 2260 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Sultrac Properties, Inc 800 West Grand Ave Oakland CA 94612		
f. Phone: 510 832 3399			g. Phone: 510 402 3399		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
Q12138649	7/19/2014	SW	1	13	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Loren Linderman, AWR			q. Signature <i>[Signature]</i>		r. Date 6/19/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:		
b. Phone: (415) 444-5432		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 201 Bailey Rd Hickory CA 95958	b. US EPA Number 726 6840001	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055570

If waste is asbestos waste, complete Sections I, II, III and IV
 If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number WA		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Auther Properties 4201 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Auther Properties Inc 400 West Grand Ave Oakland CA 94612			
f. Phone: 415-837-1000			g. Phone: 415-837-1000			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
4212139640	6/19/13	Asst	1		18	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print) Loren Linderman		q. Signature <i>[Signature]</i>		r. Date 6/19/13		

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: RODY TRUCKING 2030 2 ROAD WAY VALLEJO, CA		
b. Phone: 707-333-1302		
c. Driver Name (Print) Paul Bach	d. Signature <i>[Signature]</i>	e. Date 6/19/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Fallon Canyon Landfill 411 Ridge Rd Walbridge CA 95691		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
h. Signature			
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055571

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone, and Waste Profile table.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055572

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number NA		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Autlar Properties 260 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Autlar Properties, Inc 300 West Grand Ave Oakland CA 94612		
f. Phone: 510-832-7091			g. Phone: 510-832-9000		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No.	n. Total Quantity
42173849	9/30/13	SW		1	18
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Logan Linderman, AWR			q. Signature <i>[Signature]</i>		r. Date 6/19/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: AMAL TRUCKING 11111 11111 11111		
b. Phone: 111-111-1111		
c. Driver Name (Print) ADRIAN L. GILLES	d. Signature <i>[Signature]</i>	e. Date 6/19/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Faller Canyon Landfill 331 Heston Rd Prestonburg, KY 40379		c. US EPA Number 705 054 1801*	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

105573

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number WA		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Rudner Properties 2260 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Rudner Properties Inc 220 West Grand Ave Mermaid CA 94012		
f. Phone: 510 832 7454		g. Phone: 510 832 7454			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
4212139640	5/1/2011	SW	1	18	
6					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Loren Linterman, Pres			q. Signature Loren Linterman		r. Date 6/19/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Loren Linterman, Pres		
b. Phone: 510 832 7454		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 371 Bailey Ave Petaluma CA 94954	b. Phone: 706 486 0077	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:
e. Special Handling Instructions and Additional Information:	
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable	
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.	
g. Operator's Name and Title (Print)	i. Date
h. Signature	

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055574

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, and Waste Profile table.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Form I continued: Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent Name, Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Phone numbers, Special Handling Instructions, Friable/Non-Friable status, OPERATOR'S CERTIFICATION, and Operator Name, Signature, and Date.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055575

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, Owner's Name, Waste Profile #, Exp. Date, Waste Shipping Name and Description, Containers, Total Quantity, Unit, Generator's Certification, and Authorized Agent Name and Signature.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, Name of Authorized Agent (Print), Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Phone numbers, Special Handling Instructions, Friable/Non-Friable status, Operator's Certification, Operator's Name and Title (Print), Signature, and Date.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055576

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone, and Owner's Name and Phone Number.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent Name, Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Phone, Special Handling Instructions, Friable/Non-Friable status, OPERATOR'S CERTIFICATION, and Operator's Name and Title, Signature, and Date.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1057577

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number NA		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Ruhlin Properties 2260 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Ruhlin Properties, Inc 400 West Grand Ave Oakland, CA 94612		
f. Phone: 415-832-3434			g. Phone: 415-832-3434		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers
					n. Total Quantity
					o. Unit Wt/Vol
4212130640		9/13/2013	Asst		
B					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Loren J. Underman, M.D.			q. Signature Loren J. Underman		r. Date 6/17/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: D.A. ...		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 301 Bailey Rd Pittsburg, CA 95755		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both		% Friable	% Non-Friable
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055578

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, and Waste Profile table.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1:55579

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number NA		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Rutner Properties 2500 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Rutner Properties Inc 300 West Grand Ave Oakland CA 94612		
f. Phone: 510 812 7400		g. Phone: 510 812 7400			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
4212139649	01/01/11	...	1	18	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address:		c. US EPA Number	d. Discrepancy Indication Space:
b. Phone:			
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
i. Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both		i. Date	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055580

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number <i>NA</i>		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: <i>Fuller Properties 250 Telegraph Ave Oakland CA 94612</i>			e. Generator's Mailing Address: <i>Fuller Properties, Inc 40 West Grand Ave Oakland CA 94612</i>			
f. Phone: <i>510 832 3450</i>			g. Phone: <i>510 832 3450</i>			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
<i>4212130649</i>	<i>9/15/2011</i>	<i>Soil</i>				
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print) <i>Lige Linderman</i>			q. Signature <i>[Signature]</i>		r. Date <i>4/17/15</i>	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:		
b. Phone: <i>408 692 6111</i>		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d g)

a. Disposal Facility and Site Address: <i>Keller Canyon Landfill 301 Nancy Rd Oakland CA 94665</i>		b. US EPA Number <i>725 424 0001</i>	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print)		f. Signature		g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055781

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number WA		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Kullner Properties 250 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Kullner Properties, Inc 300 West Grand Ave Oakland CA 94612		
f. Phone: 510-812-3456			g. Phone: 510-812-3456		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
4217139649	9/30/11	Soil			
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Logan Tinderman, AIA			q. Signature <i>Logan Tinderman</i>		r. Date 6/19/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: AMAR LOGISTICS 10000 ...		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 301 Bailey Rd Pittsburg, CA 95666	b. US EPA Number	c. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:
e. Special Handling Instructions and Additional Information:	
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both	% Friable % Non-Friable
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.	
g. Operator's Name and Title (Print)	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055582

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number NA		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Autler Properties 2501 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Autler Properties, Inc 500 West Grand Ave Oakland CA 94612		
f. Phone: 415 832-1400			g. Phone: 415 832-1400		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
4212/39649	8/17/2014	SW			

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) <i>Leann Linderman, AWR</i>	q. Signature <i>[Signature]</i>	r. Date <i>8/19/13</i>
---	------------------------------------	---------------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:	
b. Phone:	
c. Driver Name (Print)	d. Signature
e. Date	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Feller Canyon Landfill 301 Bailey Rd Fresno CA 93720	b. Phone:	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both		% Friable % Non-Friable	
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)	h. Signature	i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

155583

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator's Name and Location, Mailing Address, Phone numbers, and Waste Profile table.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Form I continuation: Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, Friable/Non-Friable status, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055584

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including EPA ID Number, Manifest Document Number, Generator's Name and Location, Mailing Address, Phone numbers, Owner's Name, and Waste Profile table.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Form I continuation: Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

Form III: Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Disposal Date.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Form III continuation: Name of Authorized Agent (Print), Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Operator's Name and Address, Responsible Agency Name and Address, Phone numbers, and Special Handling Instructions.

Friable Non-Friable Both % Friable % Non-Friable

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

Form IV continuation: Operator's Name and Title (Print), Signature, and Date.

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055585

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number WA		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Sulfiner Properties 1760 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Sulfiner Properties, Inc. 940 West Grand Ave Oakland CA 94612		
f. Phone: 510 850 1444		g. Phone: 510 850 1444		i. Owner's Phone No.:	
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:					
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers
					No. Type
Q12139649		3/1/2014	SW		1 18
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Tommy Lindgren			q. Signature <i>[Signature]</i>		r. Date 6/17/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Feller Canyon Landfill 411 Valley Rd Oakland CA 94612		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable	<input type="checkbox"/> Non-Friable	<input type="checkbox"/> Both	% Friable % Non-Friable
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055586

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator's Name and Location, Mailing Address, Phone, and Owner's Name. Includes a table for Waste Profile #, Exp. Date, Shipping Name, Containers, Total Quantity, and Unit.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos handling information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055587

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, Owner's Name, Waste Profile #, Exp. Date, Shipping Name and Description, Containers, Total Quantity, and Unit. Includes a certification statement and signature of the authorized agent.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, Name of Authorized Agent, Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, Friable/Non-Friable status, Operator's Certification, Operator's Name and Title, Signature, and Date.

1055588

If waste is asbestos waste, complete Sections I, II, III and IV
 If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Bullfinch Properties 2800 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Bullfinch Properties Inc 521 West Grand Ave Oakland CA 94612		
f. Phone: 415-832-1254			g. Phone: 415-832-5454		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
Q12133640	6/1/2011	so	1	19	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Lagan Linderman, Inc			q. Signature		r. Date 6/1/11

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Lagan Linderman, Inc		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date 6/1/11

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Kaiser Canyon Landfill 301 Bailey Rd Oakland CA 94645		b. US EPA Number	c. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
<input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both		h. Signature	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055589

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number 45A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Ruffner Properties 7250 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Ruffner Properties Inc 570 West Grand Ave Oakland CA 94612		
f. Phone: 510-872-3400		g. Phone: 510-872-3400			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
4212139549	9/13/05/12	SW	1	17	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Logan Linderman, AUC		q. Signature <i>[Signature]</i>		r. Date 11/19/05	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: VINDEF		
b. Phone:		
c. Driver Name (Print) VINDEF	d. Signature <i>[Signature]</i>	e. Date 11/19/05

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Yolker Canyon Landfill 301 Dasky Rd Pittsburg CA 94565		b. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055590

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Butler Properties 720 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Butler Properties, Inc 98 West Grand Ave Oakland CA 94612		
f. Phone: 510-800-3456		g. Phone: 510-800-3456			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
0212130640	8/19/13	Soil			
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions, I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Loren Linderman, MR			q. Signature <i>[Signature]</i>		r. Date 8/19/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 201 Bailey Rd Huntingburg CA 95024	b. US EPA Number	c. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.		
e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055591

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number NA		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Kullner Properties 220 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Kullner Properties, Inc 300 West Grand Ave Oakland, CA 94612		
f. Phone: 510-832-3444		g. Phone: 510-832-3454			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
4212139640	9/19/2014	Sol	1	18	

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) Logan Linderman, AWE
q. Signature [Signature]
r. Date 6/19/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 501 Bailey Rd Pittsburg, CA 94565	b. US EPA Number	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both		% Friable % Non-Friable	
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both		i. Date	



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055592

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number NA		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Ruthra Properties 2201 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Ruthra Properties, Inc. 900 West Grand Ave Oakland, CA 94612			
f. Phone: (415) 432-3400			g. Phone: (415) 432-3400			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
4212139649	4/19/2012	Asst	1		17	
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print) Iman Informant			q. Signature <i>[Signature]</i>		r. Date 6/19/12	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: TODAY'S BUSINESS 1300 Broadway New York, NY		
b. Phone: 212 200 1000		
c. Driver Name (Print) S. S. S.	d. Signature <i>[Signature]</i>	e. Date 6/19/12

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 401 Bailey St Pittsburg, CA 95961		b. US EPA Number	c. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055593

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number NA		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Bullner Properties 2250 Telegraph Ave Oakland CA 94612			e. Generator's Mailing Address: Bullner Properties, Inc 400 West Grand Ave Oakland CA 94612		
f. Phone: 510-833-3448			g. Phone: 510-833-3448		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No. Type
4212139840		9/17/13	400		1 B
5					
C					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law. has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Logan Linkerman, AWC			q. Signature <i>[Signature]</i>		r. Date 6/19/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: <i>[Handwritten]</i>		
b. Phone:		
c. Driver Name (Print) <i>[Handwritten]</i>		d. Signature <i>[Signature]</i>
		e. Date <i>[Handwritten]</i>

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 301 Bailey Rd Pittsburg, CA 95995		b. US EPA Number	c. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055594

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number: NA
b. Manifest Document Number
c. Page 1 of
d. Generator's Name and Location: Gulliver Properties, 2250 Telegraph Ave, Oakland, CA 94612
e. Generator's Mailing Address: Gulliver Properties, Inc, 490 West Grand Ave, Oakland, CA 94612
f. Phone: 510 842 1458
g. Phone: 510 842 1458
h. Owner's Name:
i. Owner's Phone No.:

Table with 6 columns: j. Waste Profile #, k. Exp. Date, l. Waste Shipping Name and Description, m. Containers No., n. Total Quantity, o. Unit Wt/Vol. Row 1: 4212139049, 4/19/14, 45, 1, 11, 1.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print): Logan Linderman
q. Signature: [Signature]
r. Date: 6/19/14

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:
b. Phone:
c. Driver Name (Print):
d. Signature:
e. Date:

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill, 501 Bailey Rd, Pittsburg, CA 94571
b.
c. US EPA Number
d. Discrepancy Indication Space:

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)
f. Signature
g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:
b. Phone:
c. Responsible Agency Name and Address:
d. Phone:
e. Special Handling Instructions and Additional Information:

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

g. Operator's Name and Title (Print)
h. Signature
i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055595

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, and Waste Profile table.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos handling information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055999

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone, and Waste Profile details.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Form I continuation: Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, Name of Authorized Agent (Print), Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Phone, Special Handling Instructions, Friable/Non-Friable status, and Operator's Name and Title (Print), Signature, and Date.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055997

If waste is asbestos waste, complete Sections I, II, III and IV
 If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Bullner Properties 2250 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Bullner Properties, Inc. 600 West Grand Ave Oakland, CA 94612		
f. Phone: 510-832-3456		g. Phone: 510-832-3456			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
4212139649	6/13/2014	Soil	1	18	cy
B.					
C.					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Logan Linderman, AUC			q. Signature <i>[Signature]</i>		r. Date 6/20/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: LEO VILLALUBOS TRUCKING		
b. Phone: 415 552 1818		
c. Driver Name (Print) LEO Villalubos	d. Signature <i>[Signature]</i>	e. Date 6/20/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565		c. US EPA Number 925-458-9800	d. Discrepancy Indication Space:
b. I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
h. Signature			
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055996

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone, and Waste Profile #.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055998

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Butner Properties 2250 Telegraph Ave Oakland, CA 94612 610-832-3456			e. Generator's Mailing Address: Butner Properties, Inc. 600 West Grand Ave Oakland, CA 94612 510-832-3456			
f. Phone:			g. Phone:			
If owner of the generating facility differs from the generator, provide:			i. Owner's Phone No.:			
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity	o. Unit Wt/Vol
			No.	Type		
4212139649	6/13/2014	Soil	1		18	CY
B.						
C.						

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) <i>Logan Linderman, AWR</i>		q. Signature <i>[Signature]</i>	r. Date 6/20/13
---	--	------------------------------------	--------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: DEW TRUCKING 1304 HENDERSON LN HAYWARD CA 94544 510-895-4328			Truck # 105 LC # 9E65000		
b. Phone:					
c. Driver Name (Print) JASPAL S DEUL		d. Signature <i>[Signature]</i>	e. Date 6/20/13		

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565 925-458-9800		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055995

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Butner Properties 2250 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Butner Properties, Inc. 600 West Grand Ave Oakland, CA 94612		
f. Phone: 510-832-3456		g. Phone: 510-832-3456			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
4212139649	6/13/2014	Soil	1		18 cr
B.					
C.					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Loan Linderman, Inc		q. Signature <i>[Signature]</i>		r. Date 6/20/13	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: MST TRUCK #113			PP-# 9B80766		
b. Phone: MALKITSKY			m		6-20-13
c. Driver Name (Print)		d. Signature		e. Date	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565		b. 925-456-9800	c. US EPA Number	d. Discrepancy Indication Space:	
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.					
e. Name of Authorized Agent (Print)		f. Signature		g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:			
b. Phone:		d. Phone:			
e. Special Handling Instructions and Additional Information:					
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable					
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.					
g. Operator's Name and Title (Print)		h. Signature		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both					



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055994

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Butner Properties 2250 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Butner Properties, Inc. 600 West Grand Ave Oakland, CA 94612		
f. Phone: 510-832-3456		g. Phone: 510-832-3456			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity	o. Unit Wt/Vol
			No.	Type		
4212139649	6/13/2014	Soil	1		18	cy
B						
C						

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) Logan Linderman, AWA		q. Signature <i>Logan Linderman</i>		r. Date 6/20/13	
--	--	--	--	--------------------	--

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: Bach Trucking 3250 Devonshire St Union City CA 94587					
b. Phone: (510) 432-3294 925-458-115					
c. Driver Name (Print) Saham Singh		d. Signature <i>Saham Singh</i>		e. Date 6/20/13	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94566		c. US EPA Number		d. Discrepancy Indication Space:	
b. 925-458-9800					

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)		f. Signature		g. Date	
-------------------------------------	--	--------------	--	---------	--

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:			
b. Phone:		d. Phone:			

e. Special Handling Instructions and Additional Information:

f. Friable Non-Friable Both % Friable % Non-Friable

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

g. Operator's Name and Title (Print)		h. Signature		i. Date	
--------------------------------------	--	--------------	--	---------	--

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055993

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Butner Properties 2260 Telegraph Ave Oakland, CA 94812			e. Generator's Mailing Address: Butner Properties, Inc. 600 West Grand Ave Oakland, CA 94812			
f. Phone: 510-832-3456		g. Phone: 510-832-3456				
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity	o. U. Wt/V
			No.	Type		
4212139649	6/13/2014	Soil	1		18 CY	
B						
C						

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if the waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) Logan Linderman, AWR		q. Signature <i>Logan Linderman</i>	r. Date 6/20/13
--	--	--	--------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: MGI Trucking 32428 Almodon Blvd Apt # 35 Union City CA 94587		
b. Phone: 510-209-4931		
c. Driver Name (Print) Malkial Singh	d. Signature <i>Malkial Singh</i>	e. Date 6-20-13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565		b. 825-458-9800	c. US EPA Number	d. Discrepancy Indication Space:
--	--	-----------------	------------------	----------------------------------

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
-------------------------------------	--------------	---------

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

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

g. Operator's Name and Title (Print)	h. Signature	i. Date
--------------------------------------	--------------	---------

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055992

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Butner Properties 2250 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Butner Properties, Inc. 600 West Grand Ave Oakland, CA 94612		
f. Phone: 510-832-3458			g. Phone: 510-832-3458		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
4212139649	6/13/2014	Soil	1		18 CY
B					
C					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Logan Linderman, AWR			q. Signature <i>Logan Linderman</i>		r. Date 6/20/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: JIMENEZ TRUCKING # 55		
b. Phone: 436 Grove Way Hayward CA		
c. Driver Name (Print) JUAN JIMENEZ	d. Signature <i>Juan Jimenez</i>	e. Date 6-20-13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565		b. US EPA Number 925-458-9800	c. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)	f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
h. Signature		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055991

If waste is asbestos waste, complete Sections I, II, III and IV
 If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number <i>NA</i>		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: <i>Bultner Properties 2250 Telegraph Ave Oakland, CA 94612</i>			e. Generator's Mailing Address: <i>Bultner Properties, Inc. 600 West Grand Ave Oakland, CA 94612</i>		
f. Phone: <i>510-832-3456</i>		g. Phone: <i>510-832-3456</i>			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity
			No.	Type	
<i>4212139649</i>	<i>6/13/2014</i>	<i>Soil</i>	<i>1</i>		<i>18</i> <i>cy</i>
<i>B</i>					
<i>C</i>					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
<i>Logan Linderman, AWR</i>			<i>Logan JL</i>		<i>6/20/13</i>
p. Generator Authorized Agent Name (Print)			q. Signature		r. Date

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: <i>DEAL TRUCKING 1378 HENDERSON LN. HOYMAN CA 94544</i>			Travel # <i>105</i>		
b. Phone: <i>510-695-4328</i>			LC # <i>9E05000</i>		
c. Driver Name (Print) <i>JOSPA S DEVL</i>		d. Signature <i>Jospa S Devl</i>		e. Date <i>6/20/13</i>	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: <i>Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565</i>		c. US EPA Number <i>925-458-9800</i>	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	
		g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
h. Signature			
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055990

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

Form I: Generator information including EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, and Waste Profile #.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Driver Name, and Signature.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055989

If waste is asbestos waste, complete Sections I, II, III and IV
 If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number <i>NA</i>		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Butner Properties 2250 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Butner Properties, Inc 800 West Grand Ave Oakland, CA 94612			
f. Phone: 510-832-3456		g. Phone: 510-832-3456				
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity	o. Unit Wt/Vol
			No.	Type		
4212139649	8/13/2014	Soil	1		18	CR
B.						
C.						
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print) <i>Logan Linderman, Auk</i>			q. Signature <i>Logan Linderman</i>		r. Date <i>6/20/13</i>	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: <i>Logan Linderman, Auk</i>		
b. Phone: <i>415-850-9543</i>		
c. Driver Name (Print) <i>Humberto Lopez</i>	d. Signature <i>Humberto Lopez</i>	e. Date <i>06-20-13</i>

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565		b. Phone: 925-458-9800	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print)		f. Signature		g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055988

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator's Name and Location, Mailing Address, Phone numbers, and Owner information.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Form I continued: Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent information.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, Friable/Non-Friable status, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055987

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number <i>N/A</i>		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: <i>Butner Properties 2250 Telegraph Ave Oakland, CA 94612</i>			e. Generator's Mailing Address: <i>Butner Properties, Inc. 600 West Grand Ave Oakland, CA 94612</i>		
f. Phone: <i>610-832-3456</i>		g. Phone: <i>610-832-3456</i>			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
<i>4212139649</i>	<i>8/13/2014</i>	<i>Soil</i>	<i>1</i>		<i>18</i>
<i>B.</i>					<i>cf</i>
<i>C.</i>					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) <i>Logan Linderman, AWR</i>		q. Signature <i>[Signature]</i>		r. Date <i>6/20/13</i>	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: <i>[Faded]</i>		
b. Phone: <i>510-433-2941</i>		
c. Driver Name (Print) <i>[Faded]</i>	d. Signature <i>[Signature]</i>	e. Date <i>6/20/13</i>

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: <i>Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565</i>		b. US EPA Number <i>925-458-3800</i>	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055986

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Buttner Properties 2250 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Buttner Properties, Inc 800 West Grand Ave Oakland, CA 94612		
f. Phone: 510-832-3456		g. Phone: 510-832-3458			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers		n. Total Quantity
			No.	Type	
4212139649	6/13/2014	Soil	1		18 cr
B					
C					

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) Logan Linderman, AUR	q. Signature <i>Logan Linderman</i>	r. Date 6/20/13
--	--	--------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: MG Trucking 32428 Almaden Blvd Apt #85 Union City CA 94587		
b. Phone: 510-209-4831		
c. Driver Name (Print) Naikial Singh	d. Signature <i>Naikial Singh</i>	e. Date 6-20-2013

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565		b. US EPA Number 925-458-9800	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055985

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

Form I: Generator information including EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, and Waste Profile #.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Form I continued: Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Driver Name (Print), Signature, and Date.

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Form III continued: Name of Authorized Agent (Print), Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Operator's Name and Address, Responsible Agency Name and Address, Phone numbers, and Special Handling Instructions and Additional Information.

f. Friable Non-Friable Both % Friable % Non-Friable

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

Form IV continued: Operator's Name and Title (Print), Signature, and Date.

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055598

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Buttner Properties 2250 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Buttner Properties, Inc. 800 West Grand Ave Oakland, CA 94612			
f. Phone: 510-832-3456			g. Phone: 510-832-3456			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
4212139649	8/13/2014	Soil	1		18	cr
B.						
C.						
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print) Logan Linderman, AWR			q. Signature <i>Logan Linderman</i>		r. Date 6/20/13	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: LEON VILLALOBOS TROK 18 9D64369		
b. Phone: 415 532 1818 2771		
c. Driver Name (Print) LEON VILLALOBOS		d. Signature <i>LEON VILLALOBOS</i>
		e. Date 6/20/13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565		b. Phone: 925-458-9800	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print)		f. Signature		g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:		
b. Phone:		d. Phone:		
e. Special Handling Instructions and Additional Information:				
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable				
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
g. Operator's Name and Title (Print)		h. Signature		i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both.				

GENERATOR RETAIN



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055597

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, and Waste Profile table.

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

Form I continued: Generator Authorized Agent Name (Print), Signature, and Date.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, Name of Authorized Agent (Print), Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, Friable/Non-Friable checkboxes, OPERATOR'S CERTIFICATION, and Operator's Name and Title (Print), Signature, and Date.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055984

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number <i>N/A</i>		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: <i>Buttner Properties 2250 Telegraph Ave Oakland, CA 94612</i>			e. Generator's Mailing Address: <i>Buttner Properties, Inc. 600 West Grand Ave Oakland, CA 94612</i>			
f. Phone: <i>510-832-3456</i>		g. Phone: <i>510-832-3456</i>				
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
<i>4212139649</i>	<i>8/13/2014</i>	<i>Soil</i>	<i>1</i>		<i>18</i>	<i>cy</i>
<i>B</i>						

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) <i>Logan Linderman, ACSR</i>	q. Signature <i>[Signature]</i>	r. Date <i>6/20/13</i>
--	------------------------------------	---------------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: <i>DEAL TRUCKING 1398 HENDERSON LN HAYWARD CA 94544</i>		
b. Phone: <i>510-695-4328</i>		
c. Driver Name (Print) <i>Josiah S Deal</i>	d. Signature <i>[Signature]</i>	e. Date <i>6/20/13</i>

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: <i>Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565</i>	b. Phone: <i>925-458-9800</i>	c. US EPA Number	d. Discrepancy Indication Space:
---	-------------------------------	------------------	----------------------------------

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
-------------------------------------	--------------	---------

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	b. Phone:	c. Responsible Agency Name and Address:	d. Phone:
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

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

g. Operator's Name and Title (Print)	h. Signature	i. Date
--------------------------------------	--------------	---------

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1055596

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Buttner Properties 2250 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Buttner Properties, Inc. 600 West Grand Ave Oakland, CA 94612		
f. Phone: 510-832-3456		g. Phone: 510-832-3456			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No. Type		n. Total Quantity
4212139649	6/13/2014	Soil	1		18 or
B					
C					

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) <i>John Linderman A/R</i>	q. Signature <i>[Signature]</i>	r. Date 6/20/13
---	------------------------------------	--------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: GTC UNION CITY 32413 ELIZABETH		
b. Phone: 510-470-2267		
c. Driver Name (Print) MALKIT SINGH	d. Signature <i>[Signature]</i>	e. Date 6-20-13

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565	b. 925-458-9800	c. US EPA Number	d. Discrepancy Indication Space:
--	-----------------	------------------	----------------------------------

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
-------------------------------------	--------------	---------

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	b. Phone:	c. Responsible Agency Name and Address:	d. Phone:
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

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

g. Operator's Name and Title (Print)	h. Signature	i. Date
--------------------------------------	--------------	---------

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1056000

If waste is asbestos waste, complete Sections I, II, III and IV
 If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Bulthner Properties 2250 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Bulthner Properties, Inc. 800 West Grand Ave Oakland, CA 94612		
f. Phone: 510-832-3456		g. Phone: 510-832-3456			
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description		m. Containers
					n. Total Quantity
					o. Unit Wt/Vol
4212138649		6/13/2014	Soil		1
					18 cu
B					
C					
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.					
p. Generator Authorized Agent Name (Print) Logan Linderman AWR			q. Signature <i>Logan Linderman</i>		r. Date 6/20/13

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: MB Trucking 32 V28 Almaden Blvd APT # 85 Union City CA 94587		
b. Phone: 510-209-4931		
c. Driver Name (Print) Malkiat Singh		e. Date 6-20-13
d. Signature <i>Malkiat Singh</i>		

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565		b. 925-458-9600	c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print)		f. Signature		g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:		
b. Phone:		d. Phone:		
e. Special Handling Instructions and Additional Information:				
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable				
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
g. Operator's Name and Title (Print)		h. Signature		i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both				



815465

NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

Form I: Generator information including EPA ID Number, Manifest Document Number, Generator Name (Buttner Properties), Mailing Address (600 W. Grand Ave. Oakland, CA 94612), and Waste Profile # (4212139649) for Soil.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address (Baird Trucking, 32250 Devonshire St Union City CA 94587), Driver Name (Satnam Singh), and Date (6/20/13).

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address (Feller Canyon Landfill, 901 Bailey Rd. Pittsburg, CA 94565) and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, and Operator's Name and Title.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

815466

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number <i>N/A</i>		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: <i>Buttner Properties 2250 Telegraph Ave. Oakland, CA 94612</i>			e. Generator's Mailing Address: <i>Buttner Properties Inc 600 W. Grand Ave. Oakland, CA 94612</i>		
f. Phone: <i>(510) 832-3456</i>			g. Phone: <i>(510) 832-3456</i>		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No.	n. Total Quantity
				Type	o. Unit Wt/Vol
<i>4212139649</i>	<i>6/13/2014</i>	<i>Soil</i>		<i>1</i>	<i>18</i>

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) <i>Loann Linderman, AWR</i>	q. Signature <i>[Signature]</i>	r. Date <i>6/20/13</i>
---	------------------------------------	---------------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: <i>MST TRUCK # 113</i>			<i>9B80766</i>		
b. Phone:					
c. Driver Name (Print) <i>MALLET SILVA</i>	d. Signature <i>[Signature]</i>	e. Date <i>6-20-13</i>			

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: <i>Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94565</i>		b. US EPA Number	d. Discrepancy Indication Space:	
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.				
e. Name of Authorized Agent (Print)		f. Signature	g. Date	

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:		
b. Phone:		d. Phone:		
e. Special Handling Instructions and Additional Information:				
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable				
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.				
g. Operator's Name and Title (Print)		h. Signature		i. Date
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both				



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

815468

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Buttner Properties 2250 Telegraph Ave. Oakland, CA 94612		e. Generator's Mailing Address: Buttner Properties, Inc. 600 W Grand Ave. Oakland, CA 94612				
f. Phone:		g. Phone:				
h. Owner's Name:		i. Owner's Phone No.:				
j. Waste Profile #		k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	n. Total Quantity	o. Unit Wt/Vol
4212139649		6/13/14	Soil	1	18	cy

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) Logan Linderman, AWR		q. Signature <i>[Signature]</i>	r. Date 6/20/13
--	--	------------------------------------	--------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: LEO Villalobos Trucking 9060 369		b. Phone: 415 552 1818	
c. Driver Name (Print) LEO Villalobos	d. Signature <i>[Signature]</i>	e. Date 6/20/13	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd. Pittsburg, CA 94565		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print)		f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

815470

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number <i>N/A</i>		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: <i>Buttner Properties 2250 Telegraph Av. Oakland, CA 94612</i>			e. Generator's Mailing Address: <i>Buttner Properties Inc. 600 W. Grand Ave Oakland, CA 94612</i>			
f. Phone:			g. Phone:			
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
<i>4212139649</i>	<i>6/13/14</i>	<i>Soil</i>	<i>1</i>		<i>18</i>	<i>cy</i>

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) <i>Logan Linderman, AWR</i>		q. Signature <i>[Signature]</i>	r. Date <i>6/20/13</i>
---	--	------------------------------------	---------------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address:		
b. Phone:		
c. Driver Name (Print)	d. Signature	e. Date

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: <i>Keller Canyon Landfill 901 Bailey Rd. Pittsburg, CA 94565</i>	b. US EPA Number	c. Discrepancy Indication Space:
--	------------------	----------------------------------

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date
-------------------------------------	--------------	---------

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

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

g. Operator's Name and Title (Print)	h. Signature	i. Date
--------------------------------------	--------------	---------

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

815469

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number <i>N/A</i>		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: <i>Buttner Properties 2250 Telegraph Ave Oakland, CA 94612</i>		e. Generator's Mailing Address: <i>Buttner Properties Inc (510) 832-3456 600 W. Grand Ave Oakland, CA 94612</i>				
f. Phone:		g. Phone:				
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	Type	n. Total Quantity	o. Unit Wt/Vol
<i>4212139649</i>	<i>6/13/14</i>	<i>Soil</i>	<i>1</i>		<i>18 cy</i>	

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) <i>Logan Linderman, AWR</i>		q. Signature <i>[Signature]</i>	r. Date <i>06/20/13</i>
---	--	------------------------------------	----------------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: <i>DEE TRUCKING 1398 HENDERSON LN HAYWARD CA 94544</i>			Truck # <i>105</i>		
b. Phone: <i>510-695-4328</i>			LC # <i>9E05000</i>		
c. Driver Name (Print) <i>JOSPH S DEOL</i>		d. Signature <i>[Signature]</i>	e. Date <i>06/20/13</i>		

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: <i>Keller Canyon Landfill 901 Bailey Rd. Pittsburg, CA 94565</i>		b. US EPA Number	c. Discrepancy Indication Space:
--	--	------------------	----------------------------------

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)		f. Signature	g. Date
-------------------------------------	--	--------------	---------

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			

f. Friable Non-Friable Both % Friable % Non-Friable

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

g. Operator's Name and Title (Print)		h. Signature	i. Date
--------------------------------------	--	--------------	---------

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

9E24024 #203

1063029

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, Owner Name, and Waste Profile table.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos handling information including Operator Name and Address, Responsible Agency Name and Address, Special Handling Instructions, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1063030

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

Form I: Generator information including EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, and Owner's Name and Phone Number.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent Name and Signature.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos handling information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, Friable/Non-Friable status, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1763031

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator's Name and Location, Mailing Address, Phone, Owner's Name, and Waste Profile table.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1063032

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of	
d. Generator's Name and Location: Business Properties 2250 Telegraph Ave Oakland, CA 94612 310-832-3456			e. Generator's Mailing Address: Business Properties, Inc 800 West Grand Ave Oakland CA 94612 510-832-3456		
f. Phone:			g. Phone:		
If owner of the generating facility differs from the generator, provide:					
h. Owner's Name:			i. Owner's Phone No.:		
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description		m. Containers No. Type	n. Total Quantity
4212139649	6/13/2014	Soil		1	20
B					
C					

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print) Logan Linderman, AWR	q. Signature <i>[Signature]</i>	r. Date 6/24/13
--	------------------------------------	--------------------

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 18 Trucking Inc 411-512-1818			b. Phone: 411-512-1818		
c. Driver Name (Print) Logan Linderman		d. Signature <i>[Signature]</i>		e. Date 6/24/13	

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Keller Canyon Landfill 901 Bailey Rd Pittsburg, CA 94566 525-458-9800		c. US EPA Number	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print) Fisher Company		f. Signature <i>[Signature]</i>	g. Date 6-24-13

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		h. Signature	
		i. Date	
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1063733

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including EPA ID, manifest number, name, address, phone, and waste profile table.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including name, address, phone, driver name, and signature.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including disposal facility, US EPA number, discrepancy space, and agent signature.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including operator name, responsible agency, friability, and operator's certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1063034

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, Owner information, Waste Profile #, Exp. Date, Waste Shipping Name and Description, Containers No. and Type, Total Quantity, Unit Wt/Vol, and Generator's Certification.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent information.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Phone numbers, Special Handling Instructions, Friable/Non-Friable status, Operator's Certification, and Operator's Name and Title.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1063035

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number N/A		b. Manifest Document Number		c. Page 1 of		
d. Generator's Name and Location: Butner Properties 2250 Telegraph Ave Oakland, CA 94612			e. Generator's Mailing Address: Butner Properties, Inc 400 West Grand Ave Oakland CA 94612			
f. Phone: 510-832-3456		g. Phone: 510-832-3456				
If owner of the generating facility differs from the generator, provide:						
h. Owner's Name:			i. Owner's Phone No.:			
j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
4212139649	6/13/2014	Soil	1		18	lb
GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.						
p. Generator Authorized Agent Name (Print) Logan Linderman, AWR			q. Signature <i>Logan Linderman</i>		r. Date 6/24/13	

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: 18 Trucking Pier 26 S. Francisco		7E24024		#203
b. Phone: (415) 552 1818				
c. Driver Name (Print) Alberto Vaneegas	d. Signature <i>Alberto Vaneegas</i>	e. Date 6-24-13		

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

a. Disposal Facility and Site Address: Kaiser Canyon Landfill 601 Bailey Rd Pittsburg, CA 94565		c. US EPA Number 925-458-0817	d. Discrepancy Indication Space:
I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.			
e. Name of Authorized Agent (Print) Erick Compt		f. Signature <i>Erick Compt</i>	g. Date 6-24-13

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:		c. Responsible Agency Name and Address:	
b. Phone:		d. Phone:	
e. Special Handling Instructions and Additional Information:			
f. <input type="checkbox"/> Friable <input type="checkbox"/> Non-Friable <input type="checkbox"/> Both % Friable % Non-Friable			
OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.			
g. Operator's Name and Title (Print)		i. Date	
h. Signature			
*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both			



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1063036

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes la-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone, and Owner's Name and Phone No.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent Name and Signature.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, Friable/Non-Friable status, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1163037

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator's Name and Location, Mailing Address, Phone, Owner's Name, and Waste Profile table.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent details.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos handling information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1063038

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone, and Owner information.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent information.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Special Handling Instructions, and Operator's Certification.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

163039

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including US EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, Owner's Name, Waste Profile #, Exp. Date, Shipping Name and Description, Containers No. and Type, Total Quantity, Unit Wt/Vol, Generator's Certification, and Authorized Agent Name and Signature.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Transporter's Name and Address, Phone, Driver Name (Print), Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes III d-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, Name of Authorized Agent (Print), Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Phone numbers, Special Handling Instructions, Friable/Non-Friable status, Operator's Certification, and Operator's Name and Title (Print), Signature, and Date.



NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

1063040

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is NOT asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

Form I: Generator information including EPA ID Number, Manifest Document Number, Generator Name and Location, Mailing Address, Phone numbers, Owner's Name, Waste Profile #, Exp. Date, Shipping Name and Description, Containers, Total Quantity, and Unit. Includes a certification statement and signature fields.

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

Form II: Transporter information including Name and Address, Phone, Driver Name, Signature, and Date.

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

Form III: Destination information including Disposal Facility and Site Address, US EPA Number, Discrepancy Indication Space, and Authorized Agent Name, Signature, and Date.

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

Form IV: Asbestos information including Operator's Name and Address, Responsible Agency Name and Address, Phone numbers, Special Handling Instructions, Friable/Non-Friable/Both checkboxes, Operator's Certification, and Operator Name, Signature, and Date.