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Alameda County Environmental Health

March 13, 2012

Mr. Jerry Wickham, PG Senior Hazardous Materials Specialist Alameda County Health Care Services Agency Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

Re: Two Reports:

- 1) Sub-Slab Soil Vapor Sampling Report
- 2) Soil and Groundwater Investigation Results

P&D 23rd Avenue Associates, LLC 1125 Miller Avenue, Oakland, CA Clearwater Project No. CB018H ACEH Fuel Case Leak No. RO0000294

Dear Mr. Wickham,

As the legally authorized representative of the above-referenced project location I have reviewed the attached report prepared by my consultant of record, Clearwater Group. I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document are true and correct to the best of my knowledge.

Sincerely,

John Protopappa

For P&D 23rd Avenue Associates, LLC



February 29, 2012

Mr. Jerry Wickham, PG, CEG, CHG Hazardous Materials Specialist Alameda County Health Care Services Agency Environmental Health Services Environmental Protection 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502

Re: Soil and Groundwater Investigation Results

P & D 23rd Avenue Associates, LLC 1125 Miller Avenue, Oakland, California Clearwater Project No. CB018H Fuel Case Leak No. RO0000294

Dear Mr. Wickham,

Clearwater Group (Clearwater) on behalf of P & D 23rd Avenue Associates, LLC, is pleased to present the results and findings from the November 28, 2011, Subsurface Investigation for the site (*site*) located at 1125 Miller Avenue, Oakland, Alameda County, California (**Figure 1**). A Site Plan is included as **Figure 2**, which presents the *site* features and soil boring locations S1 through S14. This work was approved by Alameda County Environmental Health (ACEH) in a letter dated February 1, 2011 (**Attachment A**). A soil boring and encroachment permit for this work was issued on November 23, 2011 (**Attachment B**). The field event was performed on November 28, 2011.

INTRODUCTION

Diesel characterized as total petroleum hydrocarbons as diesel (TPH-d) is the main contaminant of concern (COC) at the *site*. Since 1998, several evaluations have been made to determine the extent and magnitude of diesel; gasoline (TPH-g); and benzene, toluene, ethylbenzene, and xylenes (BTEX) in the *site*'s soil, groundwater, and soil vapor. On November 28, 2011, three soil borings, S12 through S14 were advanced for the collection of soil and grab groundwater samples. Soil and groundwater sample analytical results and other findings collected during the November 28, 2011, subsurface investigation are the subject of this report.

SITE DESCRIPTION

The *site* was a triangular parcel (now joined as one parcel with the street and property to the north) comprising approximately 5,500 square feet. One building, zoned for mixed-use is situated in the center of the lot. The current uses are primarily residential, commercial, and light-industrial. Several tenants currently reside in this building. A T-shirt silk-screening facility is



located in the building. Historical uses of the *site* include blacksmith/forgings, incinerator, auto garage, soda bottle works, venetian blind factory, a printing press, a US Department of Agriculture (USDA) meat inspection facility, repair of diesel truck parts, a private truck refueling station, and a work-live (silk-screen) T-shirt production facility.

PREVIOUS INVESTIGATIONS

Between 1998 and 2011, four soil boring investigations were performed (2000, 2005, 2006, and 2011) at the *site*. Grab groundwater samples were collected during three of the four investigations. Between 2006 and 2011, five soil vapor sampling events were conducted, the most recent of which took place in December 2011. Recent results and a history of the soil vapor sampling are discussed under separate cover. A complete summary of pertinent *site* environmental investigation activities to date is included in **Attachment C**.

Cumulative Soil Sample Analytical Results are included in **Table 1**. Grab groundwater sample results are provided in **Table 2**, Cumulative Groundwater Sample Analytical Results. Soil vapor results are provided in **Table 3**, Soil Vapor Sample Analytical Results.

PURPOSE OF INVESTIGATION

The purpose of the November 28, 2011, subsurface investigation and drilling of three soil borings (S12 through S14) was to evaluate the lateral and vertical extent of the petroleum hydrocarbon release beneath the *site* and off-site in the cross-groundwater (cross-gradient) flow direction and down-groundwater (down-gradient) flow direction from two former 5,000-gallon underground fuel storage tanks (USTs) and associated delivery/venting improvements. The former UST area and the former dispenser are the known points of release for diesel fuel.

In addition to the diesel at the *site*, TPH-g and BTEX were also evaluated after TPH-g and BTEX were detected in sub-slab soil vapor samples collected between June 2010 and December 2011 during separate soil vapor sampling events. Petroleum hydrocarbon concentrations for soil samples collected during the November 28, 2011 soil and groundwater investigation are shown on **Figure 3**, Soil Sample Analytical Results November 28, 2011. Petroleum hydrocarbon concentrations for grab groundwater samples that were collected during this investigation are provided in **Figure 4**, Grab Groundwater Sample Analytical Results November 28, 2011.

No groundwater monitoring wells are located on *site*. Boring S12 was located in the presumed downgradient direction from the former fuel release (to the west). Boring S13 is in the former tank pit area, and boring S14 is in the presumed upgradient direction from the fuel release as well as near the area where concentrations of petroleum hydrocarbons have been elevated in soil vapor (TPH-g). Soil and groundwater sample analytical results indicate that petroleum hydrocarbons are distributed from the fuel release at the dispenser and tank pit to the west. The groundwater flow direction reported for the Eandi Metal Works, Inc. property at 2440 East 11th Street, one block east of the *site*, is a generally southwesterly direction. At least one potentiometric groundwater elevation survey event using at least three surveyed temporary or permanent monitoring wells would provide a site-specific groundwater flow direction. Additional soil and groundwater data collected south and southwest of the known release area



would also provide information regarding the direction of the release away from the former dispenser and former USTs.

SOIL AND GROUNDWATER INVESTIGATION

Details regarding the November 28, 2011, soil and groundwater investigation are included below:

Workplan

Clearwater submitted a workplan on December 20, 2010, recommending a soil and groundwater investigation and a step out soil vapor survey. A meeting took place on January 19, 2011, with the *site* participants, including one of the owners of P & D 23rd Avenue Associates, LLC, ACEH staff, and Clearwater staff. After this meeting, ACEH staff requested an addendum (clarification) to the December 20, 2010, workplan. Clearwater submitted a January 24, 2011, Revised Workplan, which addressed the recommendations made in the January 19, 2011 letter from ACEH. In their letter dated February 1, 2011, ACEH concurred with the January 24, 2011 Revised Workplan. In general, the Revised Workplan was followed during the work on November 28, 2011. Clearwater's Standard Operating Procedures (SOPs) are provided in **Attachment D**.

Utility Locate

Underground Service Alert North (USA) was notified per USA requirements. The proposed boring locations were marked in white marking paint by Clearwater field personnel. Clearwater personnel contacted USA on November 15, 2011, to request that all subsurface utilities leading to the *site* be marked. USA issued ticket number 387626 to Clearwater on November 21, 2011.

Permits

Prior to conducting field activities, Clearwater obtained a drilling permit from the Alameda County Department of Public Works (ACDPW) on November 23, 2011 (**Attachment B**).

Soil Borings

Soil borings, S12, S13, and S14, were advanced on November 28, 2011, at on-site and off-site locations. Under the supervision of Clearwater staff, Fast-Tek Engineering Support Services of Point Richmond, California (C-57 License No. 6224461) advanced each soil boring using a Geoprobe® 5400 Rig outfitted with a Direct Push Technology Macro-Core® Soil Sampler, which is a single rod system used for soil sampling. The target depth for the three soil borings was 20 feet below ground surface (bgs). One additional 4 foot push to 24 feet bgs was performed at each boring in order to insure that the temporary polyvinyl chloride (PVC) well screen sampling casing could be set within the groundwater-bearing zone. Boring S12 was placed in Calcot Place, approximately 4 feet from the western curb of Calcot Place, and about 65 feet west of S13. Boring S13 was placed in the center of the former UST pit. Boring S14 was placed approximately 12 inches west of the western side of the building, adjacent to the property line. Soil samples were collected at each soil boring at the following depths:



Soil Boring	Sample Depth (feet bgs)
S12	18
S13	11, 14, 19, 23.5
S14	19

Soil Sample Collection

Soil cores were logged continuously for classification in accordance with the Unified Soil Classification System (USCS) and the American Society for Testing and Materials (ASTM) Method D2488. Soil cores were screened with a photo-ionization detector (PID) approximately every foot. For each boring, soil samples with elevated PID readings and/or samples that vertically defined the lithology were retained. All the soil samples identified for laboratory analysis were collected by cutting an approximately 6-inch section from the Macro-Core® Soil Sampler sleeve, sealing each end of the sleeve with Teflon® tape, and capping the sleeve using flexible plastic caps. The samples were labeled, documented on a chain-of-custody form, and preserved in a cooler at approximately 40 degrees Fahrenheit for transport to Kiff Analytical LLC, a California Department of Health Services certified laboratory located in Davis, California. The soil samples were analyzed for TPH-d by EPA method 8015 and for TPH-g and BTEX by EPA method 8260B.

Naming of Soil Samples

The soil borings have an "S" prefix; however the soil samples are named with a "B" prefix followed by the boring number, then a hyphen and the sample depth in feet bgs. The sample depth is measured from the top of the soil sample.

Photoionization Detector Readings on Soil Cores in Parts Per Million

Donth		Boring Number	
Depth	S12	S13	S14
5 feet bgs	0	0	3.0
10 feet bgs	0	0	0
15 feet bgs	0	125	0
20 feet bgs	0	25	0
25 feet bgs	0	0	0

Grab Groundwater Sample Collection

Grab groundwater samples were collected from borings S12, S13, and S14, using 5/16" OD by \(^1\)4" ID polyethylene tubing with a check valve attached to the lower end of the tubing to retrieve the water sample through a 1" PVC temporary well screen placed at the 20- to 24-foot bgs interval. At least one casing volume was purged prior to sample collection. The groundwater samples were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the laboratory. After the groundwater samples were collected from the borings, each borehole was filled with neat cement grout to the asphalt road, concrete driveway, or sidewalk surface.



Naming of Grab Groundwater Samples

The grab groundwater samples are named according to the boring number.

Lithology

The uppermost soil at the *site* consists of clayey sand to a depth of approximately 5 feet bgs (most likely fill). Below is complexly inter-bedded sandy lean clay, silty sand to sandy silt, and gravel layers to at least 24 feet bgs, the deepest depth explored. The top of the wet soil was encountered between 10 and 12 feet bgs. Soil boring logs S12, S13, and S14 are provided in **Attachment E**. Photographs from the soil and groundwater investigation are provided in **Attachment F**.

Waste Disposal

Approximately 10 gallons of soil cuttings and 5 gallons of water (investigation-derived waste [IDW]) were collected during this investigation. The waste was temporarily stored off-site in a locked steel cage at Clearwater's yard, awaiting disposal. Integrated Waste Management, Inc. collected the soil on January 27, 2012 and a Certificate of Disposal was provided. The IDW water was collected and transported to the InStrat Waste Acceptance Facility on January 18, 2012. The manifests for the transport and disposal of soil and water non-hazardous waste are provided in **Attachment G**.

Soil Sample Results

Soil samples were collected from borings S12, S13, and S14 at differing depth intervals. The depth intervals from which the soil samples were submitted to the analytical laboratory were chosen based on PID results, visual and olfactory observations, proximity to the zone of release (i.e. the bottom of the former UST), and for determining the vertical distribution of COCs.

RESULTS

Soil Sample Analytical Results

The greatest concentration of TPH-d was detected at boring S13 at a depth of 14 feet bgs (1,900 mg/kg). The location of S13 is within the center of the former UST. A minor concentration of TPH-g (65 mg/kg) was also reported in this sample. No BTEX was reported above the detection limits in soil samples from S13. Minor concentrations of TPH-d were detected from samples B12-18 (8.6 mg/kg) and B14-10 (1.0 mg/kg). TPH-g and BTEX were not detected above method detection limits in samples from either S12 or S14.

Grab Groundwater Sample Analytical Results

Grab groundwater samples were collected from borings S12, S13, and S14. The concentrations of TPH-d (36,000 $\mu g/L$) and TPH-g (200 $\mu g/L$) were greatest at S13. At S12, the TPH-d concentration diminished but was still present, at 1,300 $\mu g/L$. A lesser concentration of TPH-d was detected at S14 (290 $\mu g/L$).

TPH-g was only detected in the groundwater sample from S13 (at 200 μ g/L), but BTEX concentrations were reported below their detection limits in groundwater samples S-12, S-13, and S-14. Cumulative groundwater sample analytical results are provided in **Figure 5**, Cumulative Groundwater Sample Monitoring Data.



The analytical reports for all samples collected during this investigation are provided in **Attachment H**.

DISCUSSION

Source of COCs

Soil and grab groundwater sample data collected during the November 28, 2011, soil boring event indicate that a contaminant source (secondary source) is present in soil under the former tank pit area. The primary source of the diesel is believed to be leaks from the former 5,000-gallon diesel tanks and fuel dispenser. The secondary (soil) source is likely contributing diesel to groundwater. On the basis of soil sample analytical data and field observations (odor, PID, and color), the soil most impacted by diesel is located under the former USTs between approximately 11 and 17 feet bgs, and under the former dispenser, beginning at approximately 3 feet bgs and continuing to an unknown depth.

Gasoline impacts to soil reported as TPH-g in sample B13-14 were detected under the former UST pit between approximately 11 and 14 feet bgs. Historically, gasoline-derived impacts have not been tested for in the fuel dispenser area.

Additional soil borings will be needed to vertically and laterally define the soil mass impacted with diesel, gasoline, and benzene, and to determine the source of the gasoline and benzene impacts noted during the November 28, 2011, investigation and in previous soil vapor samples.

Soil

During the November 28, 2011, investigation, the maximum TPH-d concentration in soil (1,900 mg/kg) was detected in sample B13-14. This concentration is 23 times greater than the San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels (SFBRWQCB ESLs) of 83 mg/kg. The TPH-d concentration in soil at S13 at approximately 19 feet bgs (sample B13-19) was 4.4 mg/kg. At 23.5 feet bgs (B13-23.5) the reported concentration of TPH-d was less than the method reporting limit of <1.0 mg/kg.

The greatest TPH-g concentration (65 mg/kg) was detected in S13 at 14 feet bgs. BTEX components were not detected above the method reporting limit. It is of note that for the October 24, 2000 soil sample collected at nearby boring TW2-16.5; benzene was reported at a depth of 16.5 feet bgs at a concentration of 1.4 mg/kg. This concentration is almost 30 times greater than the ESL for benzene. Boring TW2 was located approximately 5 feet southwest of the southwestern corner of the former UST excavation area, and approximately 15 feet southwest of S13. Collection of confirmation soil samples in this area would be needed to determine the current concentration of the benzene in soil.

The vertical definition of TPH-d and TPH-g in soil is complete for the source area in the former UST pit. The deepest TPH-d detection was at 19 feet bgs (4.4 mg/kg in sample B13-19). At 23.5 feet bgs (S13 at 23.5 feet bgs [B13-23.5]), TPH-d was not detected above the method reporting limit of 1.0 mg/kg in soil. The greatest concentration of TPH-g was detected at S13 at 14 feet bgs



(B13-14) at 65 mg/kg. Below this depth TPH-g was reported to be below the method reporting limits.

Lateral definition of diesel in soil is generally incomplete in all directions (north, northwest, west, and south). In the northeast, former borings S3 and S4 were only advanced to 9 feet bgs and did not encounter the deeper impacted zone observed in S13. Generally, TPH-d concentrations appear to decrease from the east towards the west. However, more data are needed to determine the distribution of the diesel release. It is unlikely that collection of soil data will be possible further west of boring S12 because the 23rd Avenue overpass is a physical barrier to sample collection. According to the apparent distribution pattern of TPH-d, the greatest concentrations are at approximately 4 feet bgs in soil below the former location of the fuel dispenser. The area of soil impacted by diesel appears to extend to the west from the location of the former fuel dispenser, towards the former USTs and beyond. During this investigation the only location TPH-g was detected was boring S13. Additional borings would be needed to the north, east, and south for delineation of TPH-g.

A plan-view map that shows the distribution of TPH-d in soil from data collected over the last 13 years is included in **Figure 6**, Soil Sample TPH-d Iso-Concentration Contour Map. It should be noted that because this map is based on cumulative data over a 13-year period, soil concentrations may have changed and the actual distribution of diesel in soil may be different at this time.

Groundwater

The groundwater samples collected to date indicate that concentrations of TPH-d are greatest in the vicinity of the former tank pit. No grab groundwater samples in the presumed upgradient direction of the UST system have been collected. The concentration of TPH-d in groundwater appears highest, with a concentration at S13 of 36,000 µg/L, in the center of the former UST pit, and from there decreases, away from the former USTs towards the west. The lateral definition is incomplete to the northwest, west, and southwest for diesel-impacted groundwater. A map showing the cumulative grab groundwater TPH-d iso-concentration contours is included on **Figure 7**. Because the groundwater sample data shown on **Figure 7** were collected over an 11-year period, TPH-d concentrations may have changed over this time. More groundwater data are needed to complete definition of the petroleum hydrocarbon release. However, a step-out groundwater sample collection point further to the west will be located north of the 23rd Avenue railroad overpass.

TPH-g was detected in the grab groundwater sample collected at S13, at a concentration of 200 μ g/L. In October 2000, a grab groundwater sample with a benzene concentration of 65 μ g/L was collected at temporary well TW2.



CONCLUSIONS

Detected concentrations of TPH-d are reported to be present in soil and groundwater at concentrations greater than the TPH-d ESL in the former dispenser location and the former UST area. Diesel sorbed to secondary source soil is likely contributing diesel to the groundwater, although the *site* is completely capped so migration (via precipitation) is minimal. Vertical definition of diesel in soil is complete for the area of the former USTs. However, vertical definition of TPH-d in soil is not complete to the north, south, west, and east of the former USTs. Lateral definition of TPH-d is incomplete to the southwest, west, east, northwest, and north. Collection of more soil and groundwater data in these directions will be needed for vertical and lateral definition of the diesel-impacted zone.

The source of the gasoline detected in soil and groundwater samples near the tank pit is presumed to source from the tank system. The gasoline impacts detected in soil and groundwater are not defined laterally in the southern, northern and eastern directions. Sorbed phase TPH-g was vertically defined in boring S13.

RECOMMENDATIONS

- 1. Ten additional borings are recommended in the eastern, southern, southwestern, northern, and northwestern directions for lateral and vertical definition of the diesel impacts. Proposed boring locations S15 through S24 are shown on **Figure 8**, Proposed Soil Boring Locations.
- 2. In addition to analyzing the soil and groundwater samples for TPH-d, continued analysis for TPH-g and BTEX is recommended because of previous detections of these COCs in previous soil and groundwater samples.
- 3. It is recommended that at least two soil samples and one grab groundwater sample be collected from each boring, as follows:
 - One sample collected from the zone where impacts are expected (approximately 11-17 feet bgs east, west, north, and south of the former USTs, as well as 3-7 feet bgs east of the former fuel dispenser).
 - A second sample to be collected from below the expected impacted zone, for vertical delineation of the depth of contamination.
 - A grab groundwater sample is recommended to be collected from each boring from the first encountered groundwater.
- 4. Data collected from the proposed and previous borings, as well as data collected from the *site* should be incorporated to update the Site Conceptual Model (SCM).

GEOTRACKER

This report, upon its completion and certification, will be scanned into PDF format and uploaded to the GeoTracker website per the January 1, 2005, GEO_REPORT requirement. GeoTracker documentation is included in **Attachment I**, GeoTracker Upload.



REPORT LIMITATION

All work performed under this contract was directed by a licensed professional. The work was performed in accordance with generally accepted practices at the time the work was performed and completed in accordance with generally acceptable standards. It should be noted that during the course of normal business practices, Clearwater may purchase or use equipment, services, or products in which Clearwater has a professional or financial interest.

This report was prepared under the supervision of a State of California Professional Geologist, Engineer, or other licensed professional. Statements, conclusions, and recommendations made in this report are based on information provided to Clearwater, observations of existing *site* conditions, our general knowledge of the *site*, limited testing of selected soil and groundwater samples, and interpretations of a limited set of data. Clearwater cannot be held responsible for the accuracy of the analytical work performed by others.

Information and interpretation presented herein are for the use of the client. Third parties should rely upon the information and interpretation contained in this document at their own risk. No other warranties, certifications, or representations, either expressed or implied, are made about the information supplied in this report. The service performed by Clearwater has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the *site*.

If you have any questions, please call James Jacobs, at 415-381-5195.

Sincerely,

Clearwater Group

Erik Lervaag

Project Manager

Olivia Jacobs, REA I #3219, CEM #1465

Chief Executive Officer

James & Jacobs, P.G.# 4815; C.H.G Chief Hydrogeologist

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Soil and Groundwater Investigation Results P & D 23rd Avenue Associates, LLC

February 2012 Project No. CB018H



FIGURES:

Figure 1: Site Vicinity Map

Figure 2: Site Plan

Figure 3: Soil Sample Analytical Results 11/28/11

Figure 4: Grab Groundwater Sample Analytical Results 11/28/11
Figure 5: Cumulative Groundwater Sample Analytical Data
Figure 6: Soil Sample TPH-d Iso-Concentration Contour Map

Figure 7: Grab Groundwater Sample TPH-d Iso-Concentration Contour Map

Figure 8: Proposed Soil Boring Locations

TABLES:

Table 1: Cumulative Soil Sample Analytical Results

Table 2: Cumulative Groundwater Sample Analytical Results

Table 3: Soil Vapor Sample Analytical Results

ATTACHMENTS:

Attachment A: Regulatory Correspondence

Attachment B: Permits

Attachment C: Site Investigation History
Attachment D: Standard Operating Procedures

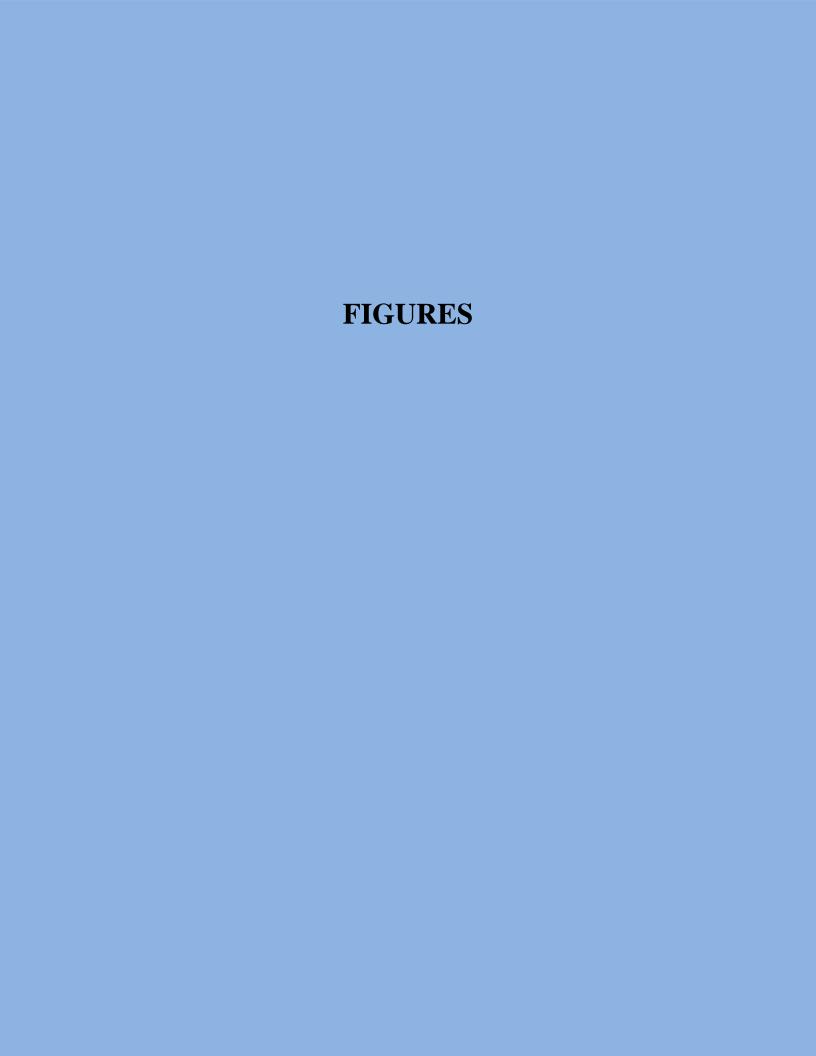
Attachment E: Soil Boring Logs Attachment F: Photographs Attachment G: Waste Disposal

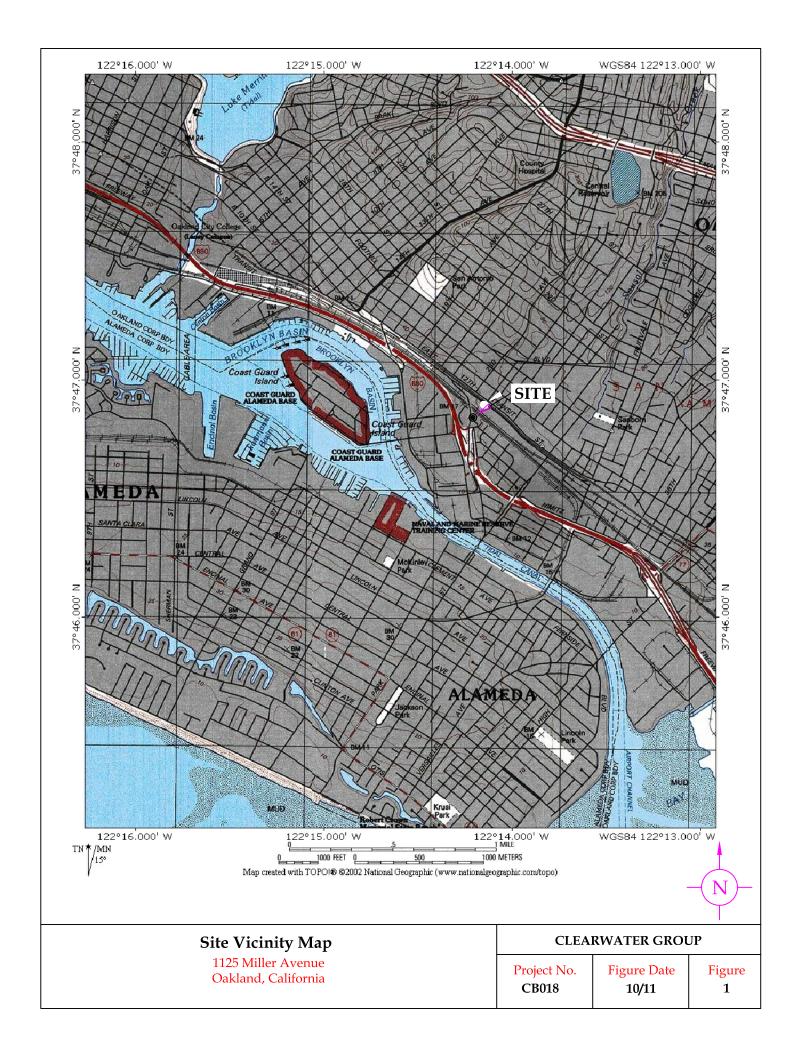
Attachment H: Laboratory Analytical Reports

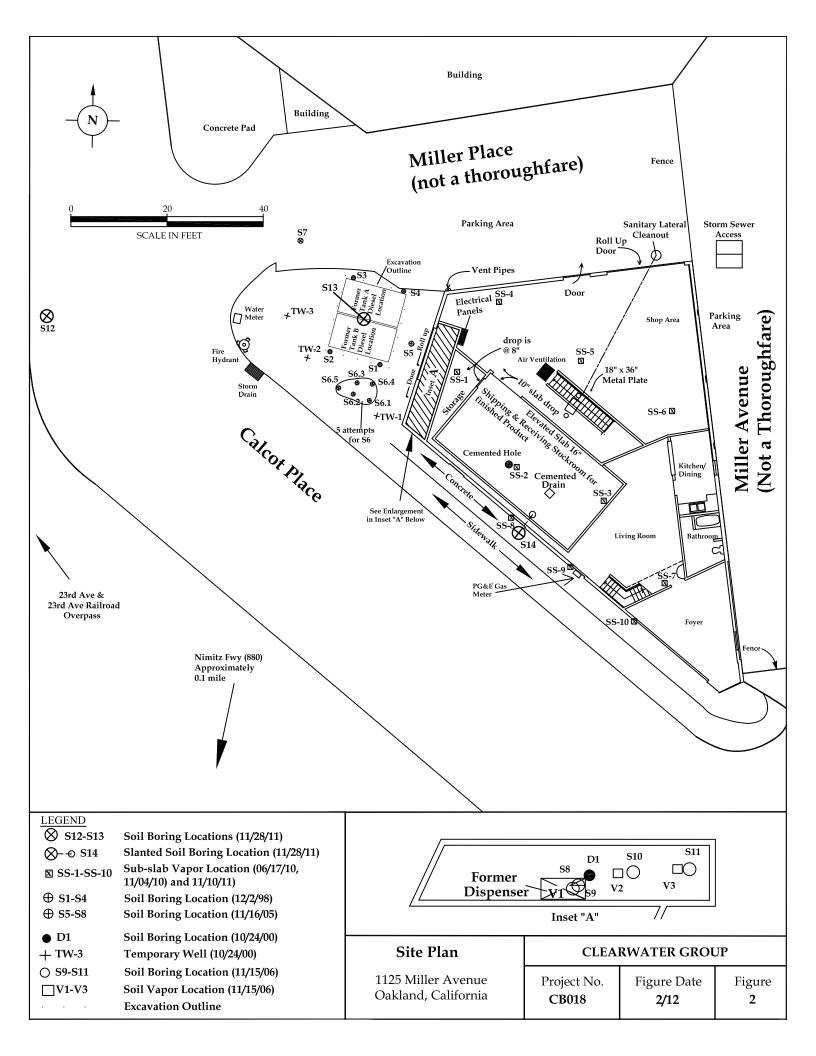
Attachment I: GeoTracker Pages

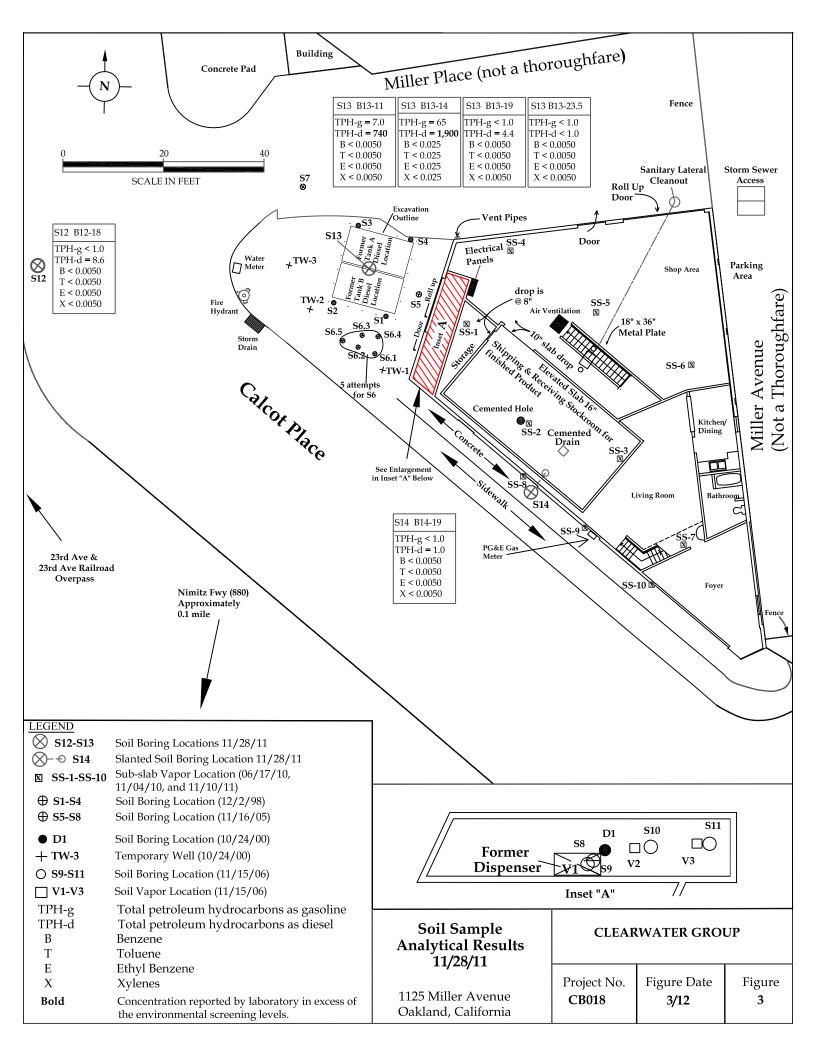
cc: Mr. John Protopappas

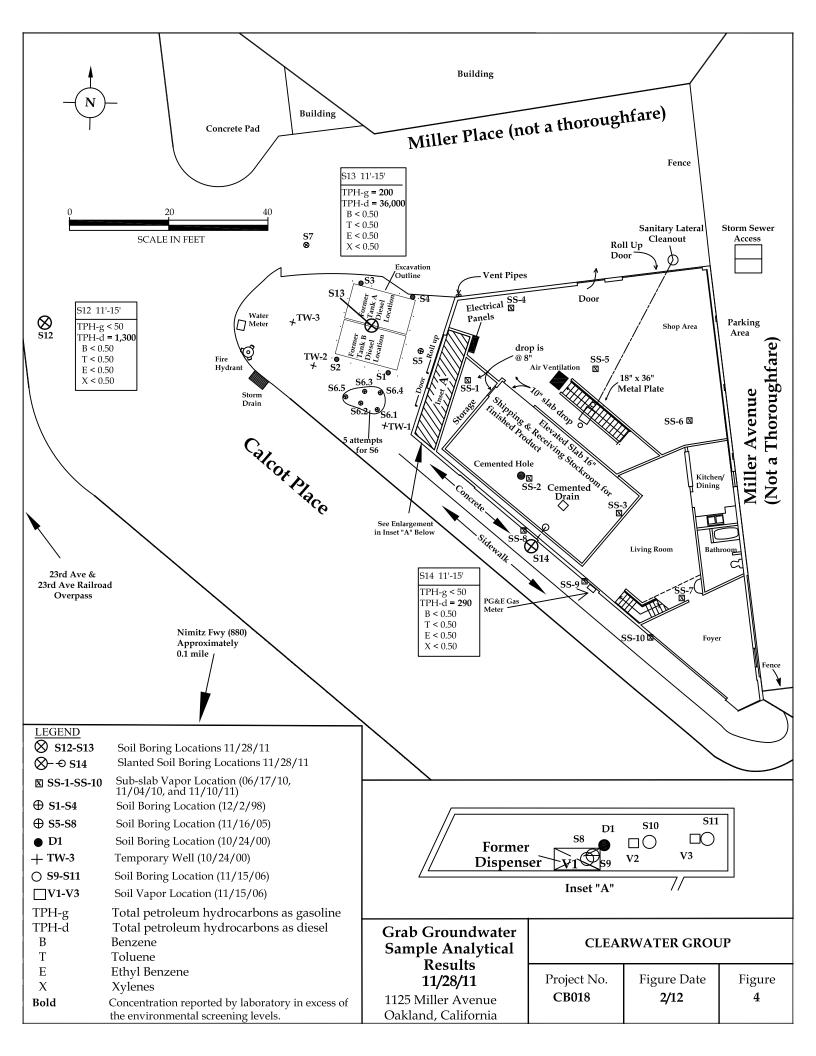
Madison Park Financial Corporation 155 Grand Avenue, Suite 1025 Oakland, California 94612

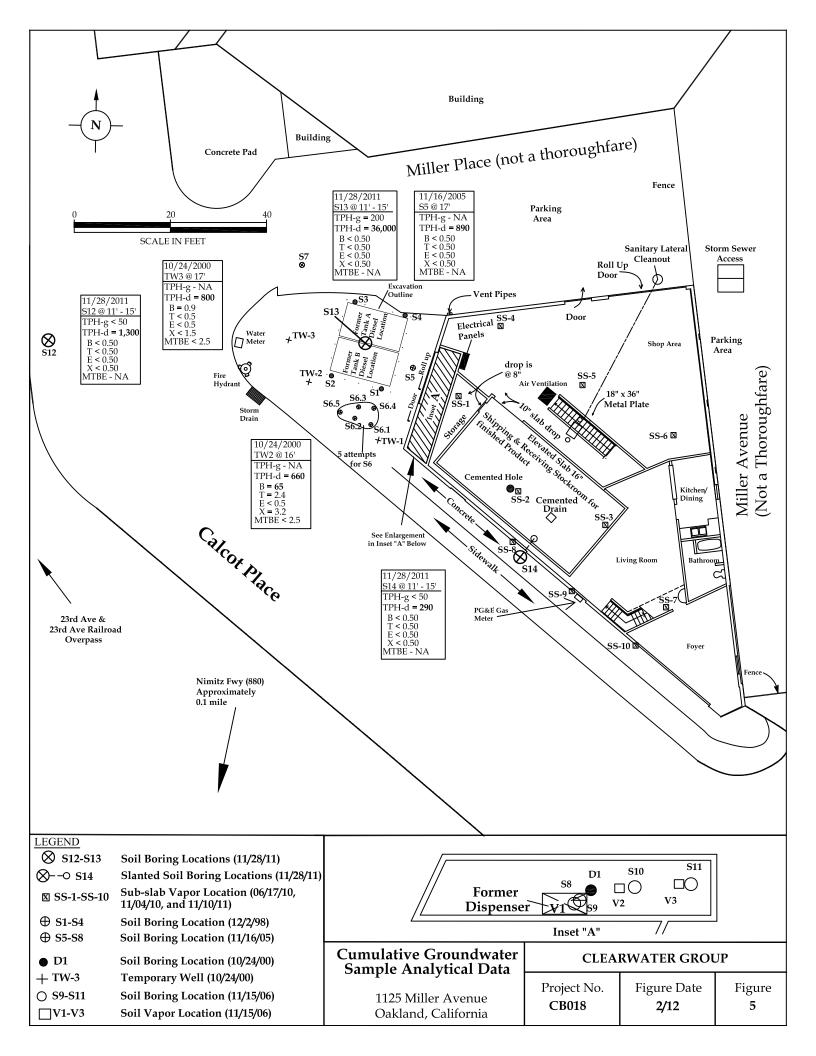


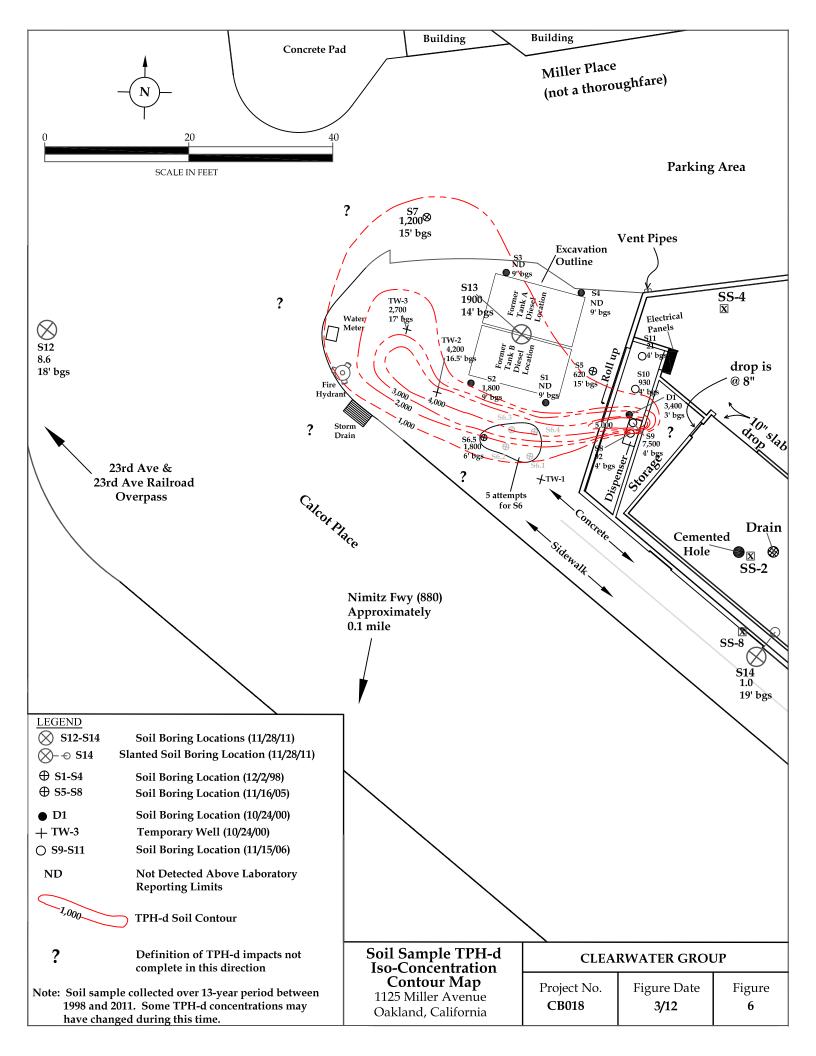


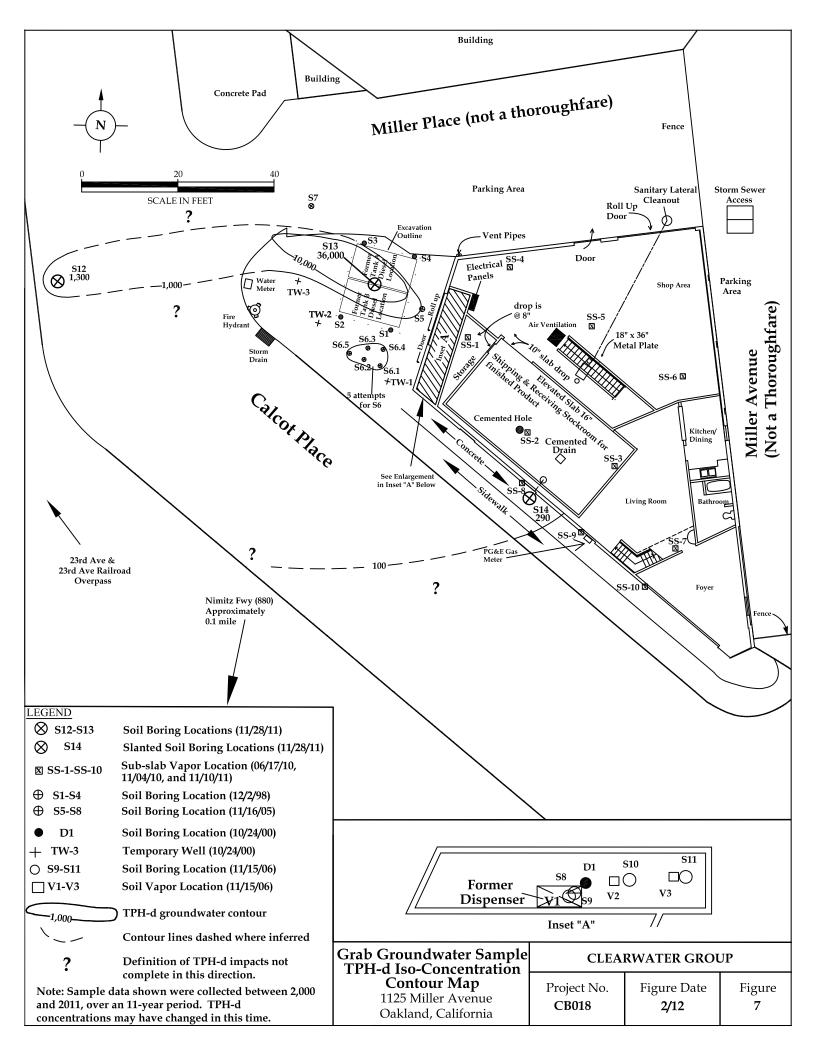


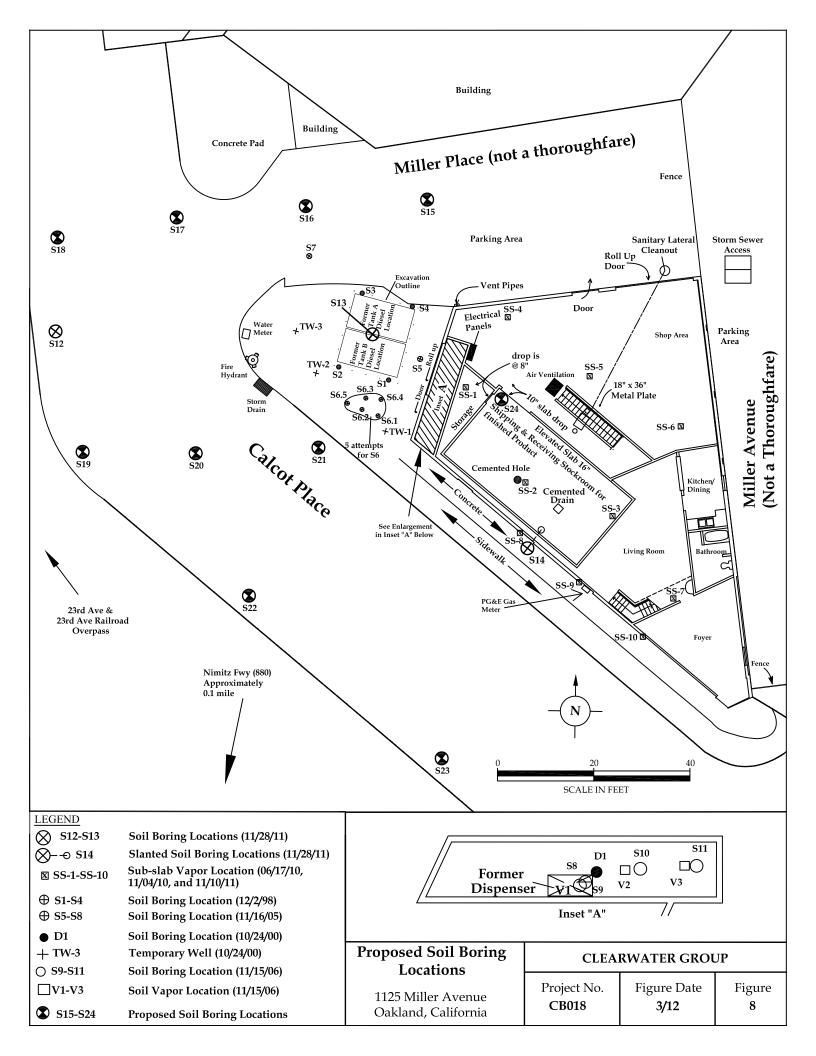












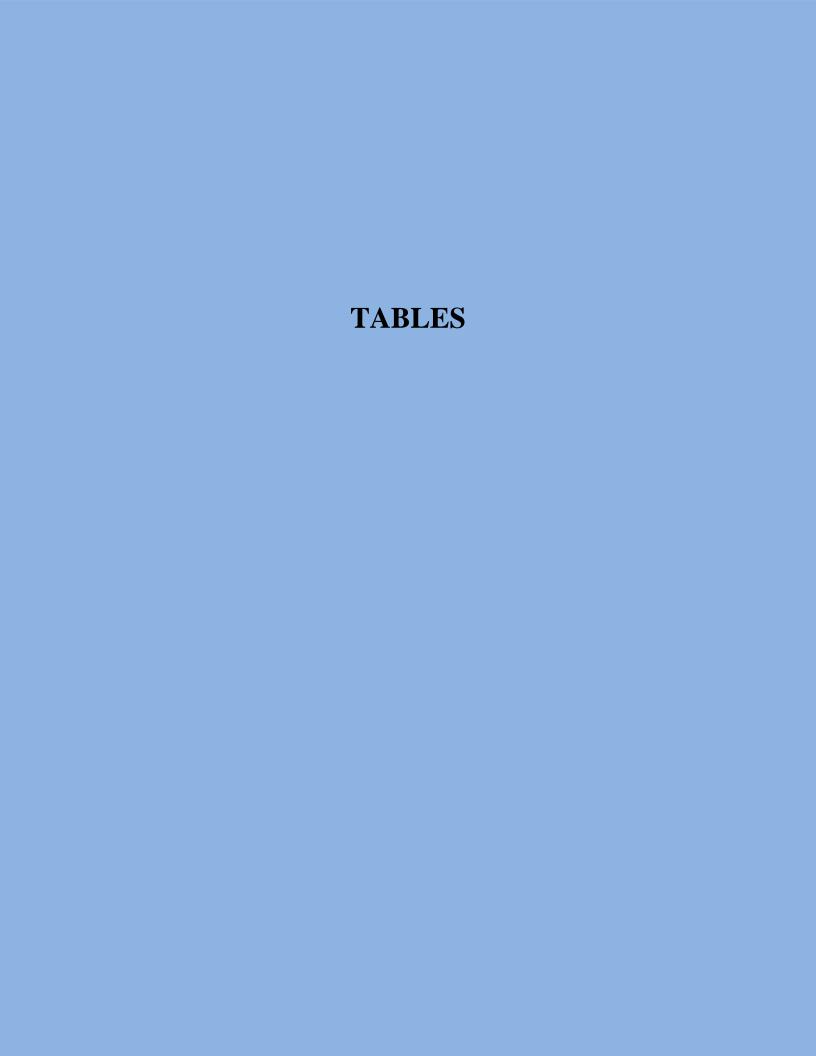


Table 1 **Cumulative Soil Sample Analytical Results**

P & D 23rd Avenue Associates, LLC 1125 Miller Avenue, Oakland, CA Clearwater Project No. CB018

Soil Boring ID	Sample ID	Collection Depth (feet)	Sampling Date	TPH-d (mg/kg)	TPH-g (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)
Shall	low Soil ESL ^A for R	esidential/ Commercial	Use	83	83	0.044	2.9	2.3/ 3.3	2.3	0.023
Dee	ep Soil ESL ^A for Res	sidential/ Commercial U	Use	83	83	0.044	2.9	3.3	2.3	0.023
S1	S1-9	9	12/01/1998	ND	NA	ND	ND	ND	ND	ND
S2	S2-9	9	12/01/1998	1,800	NA	ND	ND	ND	0.51	ND
S3	S3-9	9	12/01/1998	ND	NA	ND	ND	ND	ND	ND
S4	S4-9	9	12/01/1998	ND	NA	ND	ND	ND	ND	ND
TW2	TW2 -16.5	16.5	10/24/2000	4,200	NA	1.4	ND	ND	ND	ND
TW3	TW3-17	17	10/24/2000	2,700	NA	ND	ND	ND	ND	ND
D1	D1-3	3	10/24/2000	3,400	NA	ND	ND	ND	ND	ND
D1	D1-8	8	10/24/2000	34	NA	ND	ND	ND	ND	ND
S5	S5-5	5	11/16/2005	14 ^B	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NAD
S5	S5-10	10	11/16/2005	610	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S5	S5-15	15	11/16/2005	620	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S5	S5-20	20	11/16/2005	5.8	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S 6	S6-6	6	11/16/2005	1,800 ^B	NA	NA^{C}	NA^{C}	NA^{C}	NA^{C}	NA^{D}
S7	S7-5	5	11/16/2005	150^{B}	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S7	S7-10	10	11/16/2005	32^{B}	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S7	S7-15	15	11/16/2005	1,200	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S7	S7-20	20	11/16/2005	300	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S8	S8-4	4	11/16/2005	92	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S 9	S9.4.0	4	11/15/2006	7,500	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S10	S10.4.0	4	11/15/2006	930	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S11	S11.4.0	4	11/15/2006	21	NA	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S12	B12-18	18	11/28/2011	8.6 ^E	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S13	B13-11	11	11/28/2011	740	7.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S13	B13-14	14	11/28/2011	1,900	65	< 0.025	< 0.025	< 0.025	< 0.025	NA^{D}
S13	B13-19	19	11/28/2011	4.4 ^E	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^D
S13	B13-23.5	23.5	11/28/2011	<1.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}
S14	B14-19	19	11/28/2011	1.0 ^E	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	NA^{D}

Notes: ESL's

Environmental Screening Levels for Shallow Soils (<3 meters below ground surface) and Deep Soils (>3 meters below ground surface) where Groundwater is a Current or Potential Source of Drinking Water, Residential and Commercial/Industrial Land Use (separated by a slash respectively when different); from Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater, available from www.waterboards.ca.gov/sanfranciscobay/water_issues/available_documents/ESL_May_2008.pdf - Obtained on January

6, 2012

TPH-d Total petroleum hydrocarbons as diesel using EPA Method 8015/8020 (modified)

TPH-g Total petroleum hydrocarbons as gasoline using EPA Method 8260B

Benzene, Toluene, Ethylbenzene, Xylenes using EPA Method 8015/8020 (modified) BTEX

MTBE

Methyl tertiary-butyl ether using EPA Method 8260 Milligrams per kilogram (approximately equal to parts per million) mg/kg ND

Not detected above laboratory reporting limits

NA Not analyzed

< 0.0050 Not detected in concentrations exceeding the indicated laboratory reporting limit

bold Contamination in the sample exceeded Environmental Screening Levels.

Footnote A San Francisco Bay Regional Water Quality Control Board (June 2001) Table B. Surface Soil (\le 3m bgs) Soil and Groundwater Environmental Screening Levels

Footnote B Concentration reported is atypical for diesel, these hydrocarbons have a higher boiling point Footnote C Analysis not performed due to lack of sample volume.

Footnote D Analysis of MTBE not required by ACEH.

Footnote E Laboratory Notes: Discrete peaks in Diesel range, atypical for Diesel Fuel.

Analytical results reported in italics are from the December 31, 2001 Subsurface Exploration Report prepared by Environmental Bio-Systems.

Table 2 Cumulative Groundwater Sample Analytical Results

P & D 23rd Avenue Associates LLC 1125 Miller Avenue, Oakland, CA Clearwater Project No. CB018H

Sample Point Location	Sample ID	Sampling Date	Depth (feet bgs)	TPH-d (μg/L)	TPH-g (μg/L)	B (µg/L)	T (μg/L)	E (μg/L)	X (μg/L)	MTBE (μg/L)
	Environmental	Screening Levels in μg/L ^A		100	100	1.0	40	30	20	5.0
TW2	TW2	10/24/2000	16′	660	NA	65	2.4	< 0.5	3.2	<2.5
TW3	TW3	10/24/2000	171	800	NA	0.9	< 0.5	< 0.5	<1.5	< 2.5
S5	S5	11/16/2005	17′	890	NA	< 0.50	< 0.50	< 0.50	< 0.50	NA
S12	S-12	11/28/2011	11-15′	1,300 B	< 50	< 0.50	< 0.50	< 0.50	< 0.50	NA
S13	S-13	11/28/2011	11-15′	36,000	200	< 0.50	< 0.50	< 0.50	< 0.50	NA
S14	S-14	11/28/2011	11-15′	290 ^B	< 50	< 0.50	< 0.50	< 0.50	< 0.50	NA

TPH-d Total petroleum hydrocarbons as diesel using EPA Method 8015/8020 (modified)

TPH-g Total petroleum hydrocarbons as gasoline using EPA Method 8260B

B Benzene using EPA Method 8020/8260B T Toluene using EPA Method 8020/8260B E Ethylene using EPA Method 8020/8260B X Xylenes using EPA Method 8020/8260B

MTBE Methyl tertiary-butyl ether using EPA Method 8260B

µg/L Micrograms per liter (approximately equal to parts per billion: ppb)

NA Not analyzed

<### Not detected in concentrations exceeding the indicated laboratory reporting limit

bgs Below Ground Surface

bold Contamination in the sample exceeded environmental screening limits.

Footnote A Environmental Screening Levels (ESLs) for Deep Soils where Groundwater is a Current or Potential Source of Drinking Water from Screening for

Environmental Concerns at Sites with Contaminated Soil and Groundwater, available from

 $www.waterboards.ca.gov/sanfranciscobay/water_issues/available_documents/ESL_May_2008.pdf$

Footnote B Laboratory notes: Discrete peaks, higher boiling hydrocarbons present, atypical for Diesel Fuel.

Analytical results reported in italics are from the December 31, 2001 Subsurface Exploration Report prepared by Environmental Bio-Systems.

TABLE 1 Soil Vapor Sample Analytical Results

P & D 23rd Avenue Associates LLC 1125 Miller Avenue, Oakland, CA Clearwater Project No. CB018H

		NE NE
V2.2 Suma Duplicate 11/15/2006 TO-15 42 46 <7.9 29.8 V2.4 Suma 11/15/2006 TO-15 <21 <28 <24 <28 V2.4 Suma 11/15/2006 TO-17 >150,000 F	63,000 980 21,000 9,400 NE NE NE 1	
V2.4 Suma		
V1.4 IL 11/15/2006 TO-17 >150,000 ^F		
V1.4 4L 11/15/2006 NIOSH 1550 580,000		
V1.4 4L Duplicate 11/15/2006 NIOSH 1550 600,000		
V2.2 4L 11/15/2006 NIOSH 1550 180,000		
V2.4 1L 11/15/2006 NIOSH 1550 280,000		
V2.4 4L 11/15/2006 NIOSH 1550 700,000		
1,411.5-		
V3.4 4L 11/15/2006 NIOSH 1550 570,000		
SS-1 11/04/2010 TO-17/TO-15 ^B <5,000 <2.5 <2.5 <2.5 <240 <3.8 <4.5 <5.1 <5.1 <4.3 <14 <	<4.5 <5.1 <5.1 <4.3 <14 <20 ^D	2
	_	1
	<2.9 <3.4 <3.4 <2.8 <9.4 <13	6
SS-2 06/17/2010 8260B/ 8015M ^C <50,000 <100 <10,000 <100 <200 <100 <200 <100 <1,000 <	<200 <100 <200 <100 <1,000 <100	
	, b	2
	_	
SS-2 12/09/2011 TO-17/TO-15 ^B <5,000 <2.5 <2.5 <160 <2.5 <3.0 <3.4 <3.4 <2.8 <9.6 <	<3.0 <3.4 <3.4 <2.8 <9.6 <13 <	8
	2,600 2,000 6,050 <100 <1,000 <100	
SS-3 11/04/2010 TO-17/TO-15 ^B 5,800 8.0 24 36 13,000 <8.2 60 560 2,940 <9.2 <31 < Modified ASTM	60 560 2,940 <9.2 <31 <43 ^D	5
SS-3 11/04/2010 D-1945		<0.0051%
SS-3 04/01/2011 TO-17/TO-15 ^B 8,200 4.2 7.0 <2.5 8,600 3.8 16 110 650 <3.8 <13 <	16 110 650 <3.8 <13 <18 ^D)
SS-3 12/08/2011 TO-17/TO-15 ^B <5,000 3.7 8.0 <2.5 12,000 <2.5 3.8 19 119 <2.8 <9.6 < Modified ASTM	3.8 19 119 <2.8 <9.6 <13	8
SS-3 12/08/2011 D-1945		<0.0016%
SS-4 11/04/2010 TO-17/TO-15 ^B <5,000 <2.5 <2.5 <2.5 <240 <3.8 <4.5 <5.2 <5.2 <4.3 <14 <	<4.5 <5.2 <5.2 <4.3 <14 <20 ^D	2
SS-4 $04/01/2011$ TO-17/TO-15 ^B <5,000 <2.5 <2.5 <2.5 520 <3.7 <4.4 <5.0 <5.0 <4.2 <14 <	<4.4 <5.0 <5.0 <4.2 <14 <19 ^D	l
	<2.9 <3.4 <3.4 <2.8 <9.4 <13	6
SS-5 06/17/2010 8260B/ 8015M ^C <50,000 <100 <10,000 <100 <200 <100 <200 <100 <1,000 <	<200 <100 <200 <100 <1,000 <100	
	, b	
Modified TO-		

TABLE 1 Soil Vapor Sample Analytical Results

P & D 23rd Avenue Associates LLC 1125 Miller Avenue, Oakland, CA Clearwater Project No. CB018H

Sample (ID)	Sampling Date	Analytical Method	TPH-d (μg/m³)	Naphthalene (μg/m³)	1-Methyl naphthalene (µg/m³)	2-Methyl naphthalene (μg/m³)	TPH-g (μg/m³)	$B = (\mu g/m^3)$	Τ (μg/m ³)	E (μg/m³)	X ^E (μg/m ³)	MTBE (μg/m³)	TBA (μg/m³)	ETBE TAME DIPE (µg/m³)	2-Propanol (μg/m³)	Propane
CHHSLs, Commercial ¹			NE	32	NE	NE	NE	36	140,000	420	320,000	4	NE	NE	NE	NE
ESLs, Lowest Residential A			10,000	72	NE	NE	10,000	84	63,000	980	21,000	9,400	NE	NE	NE	NE
SS-5	04/01/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	880	< 3.7	8.2	< 5.0	< 5.0	<4.2	<14	<19 ^D	<11	
SS-5	12/08/2011	TO-15	<5,000	<2.5	<2.5	<2.5	<160	<2.5	<2.9	< 3.4	<3.4	<2.8	<9.4	<13	<7.6	
SS-6	06/17/2010	8260B/ 8015M ^C	<50,000	<100			<10,000	<100	<200	<100	<200	<100	<1,000	<100		
SS-6	11/04/2010	TO-17/TO-15 ^A	<5,000	4.6	<2.5	4.3	<250	< 3.9	<4.6	< 5.3	< 5.3	<4.4	<15	<20 D	<12	
SS-6	04/01/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	400	<3.8	<4.5	< 5.2	< 5.2	<4.3	<14	$<$ 20 $^{\mathrm{D}}$	<12	
SS-6	12/09/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	<160	<2.5	<3.0	<3.4	<3.4	<2.8	<9.6	<13	<7.8	
SS-7	04/01/2011	TO-17/TO-15 ^B	<5,000	10	9.0	10	690	<3.8	5.9	<5.2	<5.2	<4.3	<14	<20 D	85	
SS-7 (IPA)	04/01/2011	TO-15													93,000	
SS-7	12/09/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	520 ^F	< 2.5	< 2.9	<3.4	<3.4	< 2.8	<9.4	<13	<7.6	
SS-7 (IPA)	12/09/2011	TO-15													20,000 $^{\rm H}$	
SS-8	12/08/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	340	<2.6	<3.1	<3.6	<3.6	<3.0	<9.9	<14	<8.1	
SS-9	12/08/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	310	<2.6	<3.0	<3.5	<3.5	<2.9	<9.8	<13	<7.9	
SS-10	12/08/2011	TO-17/TO-15 ^B	<5,000	<2.5	<2.5	<2.5	1,900	37	160	37	208	<2.7	<9.2	<13	<7.5	

Notes: ESL Environmental Screening Limit $(\mu g/m^3)$ Micrograms per cubic meter

TO-15 Samples analyzed using modified EPA method TO-15 for soil vapor collected in specially prepared canisters and analyzed by gas chromatography/mass spectrometry (GC/MS).

TO-17 Samples analyzed using modified EPA method TO-17 for soil vapor samples collected using multi-bed sorbent tubes and analyzed by GC/MS.

NIOSH 1550 Alternative analytical method used for saturated sorbent tubes using chemical extraction (carbon disulfide) and analyzed using gas chromatography/flame ionization detector

ASTM D-1945 Sample analyzed using modified ASTM D-1945

TPH-d Total petroleum hydrocarbons detected within the diesel range of C10-C28 TPH-g Total petroleum hydrocarbons detected within the gasoline range of C6-C12

В Benzene Toluene Τ Ethylbenzene Е X Total

MTBE Methyl-t-butyl ether

ETBE Ethyl-t-

TAME Tert-amyl methyl ether DIPE Diisopropyl ether TBA tert-Butanol

2-Propanol is also known as Isopropyl alcohol (IPA) 2-Propanol

Not Analyzed

<# Contamination in the sample was below method reporting limits bold Contamination in the sample exceeded environmental screening limits

Standard Not Established NE

Identification (ID)

CHHSL California Human Health Screening Leve

TABLE 1

Soil Vapor Sample Analytical Results

P & D 23rd Avenue Associates LLC 1125 Miller Avenue, Oakland, CA Clearwater Project No. CB018H

					13601	236.4.1								ETBE		
Sample	Sampling	Analytical	TPH-d	Naphthalene	1-Methyl naphthalene	2-Methyl naphthalene	TPH-g	В	Т	E	X E	MTBE	TBA	TAME DIPE	2-Propanol	Propane
(ID)	Date	Method	$(\mu g/m^3)$	$(\mu g/m^3)$	(μg/m ³)	$(\mu g/m^3)$		$(\mu g/m^3)$								
CHHSLs, Commercial ^I			NE	32	NE	NE	NE	36	140,000	420	320,000	4	NE	NE	NE	NE
ESLs, Lowest Residential A			10,000	72	NE	NE	10,000	84	63,000	980	21,000	9,400	NE	NE	NE	NE
Footnote A						nvironmental Conc								Гable E-2 S	hallow Soil Ga	s Screening
						vaterboards.ca.gov/							.pdf			
Footnote B						-17 VI; TPH-g, B,	T, E, X, MT	BE, TBA,	ETBE, TA	ME, DIPE	by Modified	l TO-15.				
Footnote C					60B; TPH-d by El	PA method 8015n										
Footnote D		ted as isopropyl et														
Footnote E		orted as the sum of			41 41 41	h	D 4l					£TDII -	. 41 14	£ TDII -	: 4l.:l	
Footnote F	-	_				he reporting limit. I		preceding s	sample con	tained nigh	concentratio	on or TPH-g	g, the result	ior iph-g	in this sample i	nay be biase
Footnote G						nsufficient sample v carbons were distri		lighter earl	han ranga a	f diagal						
Footnote H						igh level target spec		nginei cari	bon range o	i diesei						
1 oothote 11						Table 3 Soil Gas S		mhers for	Volatile Ch	emicals Re	low Buildin	ge Construc	ted Withou	t Engineere	d Fill Below S	ıh-Slah
Footnote I	Gravel	uijornia 11uman 11	euin screenin	g Levels, Revised	september 2010.	Table 5 Boll Gas B	rerecting ive	1110013 101	voiatiic Ci	iciliicais De	iow Dunum	gs Constitue	ica wiinou	t Engineere	a i iii below bi	10-5140
	Giavei															
V2.2 Summa (200 mL/min*30 min`	Vapor sample	e collected at 2 fee	t below ground	l surface using 6-li	ter Summa caniste	er at a flow rate of 2	200 mL per i	ninute for 3	30 minutes.							
V2.4 Summa (200	Vanor cample	collected at A fee	t below ground	l curface ucina 6 li	tar Summa canista	er at a flow rate of 2	200 ml ner i	ninuta for	30 minutes							
mL/min*30 min	v apor sample	conceicu at 4 icc	t ociow ground	surface using 0-11	ici Summa camsic	at a now rate or 2	200 IIIL per i	iiiiute ioi .	50 minutes.	•						
V1.4 1L	Vanor sample	collected at 4 fee	t helow ground	l surface using TO	-17 Carbotran 300	tube at a flow rate	of 66.7 mL	ner minute	for 15 min	utes Samn	le was analy	zed usino m	nodified FP	A method	ΓΩ-17	
V1.4 4L			_	_	•	tube at a flow rate		•			ic was anary	zea asing n	iodilica Ei	i incinca	10 17.	
> ## (S)			_	rated peak for anal	•	1400 41 4 110 11 1410	01 133.3 111	per minut	101 50 1111	mates.						
1L				ninute for 15 minu												
4L	•	•	•	minute for 30 min												
· -			per													



ATTACHMENT A

Regulatory Correspondence

ALAMEDA COUNTY HEALTH CARE SERVICES





ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

January 19, 2011

Mr. John Protopappas
P&D 23rd Avenue Associates LLC
P.O. Box 687
Oakland, CA 94604
(Sent via E-mail to: John@MPFCorp.com)

Subject: Work Plan for Fuel Leak Case No. RO0000294 and GeoTracker Global ID T0600177455, 23rd Avenue Partners, 1125 Miller Avenue, Oakland, CA 94601

Dear Mr. Protopappas:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the most recently submitted document entitled, "Historic Property Uses Report," dated December 20, 2010, "Results of Additional Sub-Slab Vapor Investigation Report," dated December 10, 2010, and "Site Characterization Workplan," dated December 20, 2010 (Work Plan). The results from these reports and Work Plan were discussed during a meeting conducted on January 19, 2011 between Mr. John Protopappas of Madison Park Financial Corporation, James Jacobs of Clearwater Group, Erik Lervaag of Clearwater Group, Olivia Jacobs of Clearwater Group, and Jerry Wickham of ACEH.

Based on our review of the documents and the results of the meeting, we request that you prepare a Revised Work Plan that incorporates the revisions discussed during our January 19, 2011 meeting. These revisions are briefly summarized in the technical comments below.

TECHNICAL COMMENTS

- Soil Borings. Three soil borings are to be advanced for collection of soil and groundwater samples at the locations discussed during our January 19, 2011 meeting; one near or within the former tank pit, one west of the tank pit, and one west of SS-3.
- 2. Sub-slab Vapor Samples. One additional sub-slab vapor probe is to be installed within the first-floor living space to assess whether a source in addition to the former diesel USTs may exist in this area. Vapor samples from the additional vapor probe and existing probes are to be analyzed for volatile organic compounds and total petroleum hydrocarbons as gasoline using EPA Method TO-15.
- 3. Removal of Product Lines and Vent Lines. In the Work Plan requested below, please include plans to remove the product lines from the former dispenser and vent lines. Please propose screening criteria for removing contaminated soil observed during the line removal and collecting confirmation soil samples.

Mr. John Protopappas RO000294 January 19, 2011 Page 2

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

• March 18, 2011 - Revised Work Plan

If you have any questions, please call me at (510) 567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Digitally signed by Jerry Wickham DN: cn=Jerry Wickham, o=Alameda County Environmental Health, ou,

emall=jerry.wickham@acgov.org, c=US Date: 2011.01.19 15:56:43 -08'00'

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297 Senior Hazardous Materials Specialist

Attachment: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 2032 (Sent via E-mail to: lgriffin@oaklandnet.com)

Erik Lervaag, Clearwater Group, 229 Tewksbury Avenue, Pt. Richmond, CA 94801 (Sent via E-mail to: <u>ELervaag@clearwatergroup.com</u>)

Olivia Jacobs, Clearwater Group, 229 Tewksbury Avenue, Pt. Richmond, CA 94801 (Sent via E-mail to: OJacobs@clearwatergroup.com)

James Jacobs, Clearwater Group, 229 Tewksbury Avenue, Pt. Richmond, CA 94801 (Sent via E-mail to: augerpro@sbcglobal.net)

Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Jerry Wickham, ACEH (Sent via E-mail to: jerry.wickham@acgov.org)

GeoTracker, File

ALAMEDA COUNTY HEALTH CARE SERVICES





ALEX BRISCOE, Director

ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

February 1, 2011

Mr. John Protopappas P&D 23rd Avenue Associates LLC P.O. Box 687 Oakland, CA 94604 (Sent via E-mail to: John@MPFCorp.com)

Subject: Work Plan Approval for Fuel Leak Case No. RO0000294 and GeoTracker Global ID T0600177455, 23rd Avenue Partners, 1125 Miller Avenue, Oakland, CA 94601

Dear Mr. Protopappas:

Alameda County Environmental Health (ACEH) staff has reviewed the fuel leak case file for the above-referenced site including the most recently submitted document entitled, "Revised Workplan," dated January 24, 2011 (Work Plan). The Work Plan presents detailed plans for several tasks that were discussed during a meeting conducted on January 19, 2011 between Mr. John Protopappas of Madison Park Financial Corporation, James Jacobs of Clearwater Group, Erik Lervaag of Clearwater Group, Olivia Jacobs of Clearwater Group, and Jerry Wickham of ACEH.

The proposed scope of work is acceptable and may be implemented as proposed. We request that you perform the proposed work and send us the reports requested below.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Jerry Wickham), according to the following schedule:

July 2, 2011 – Site Investigation and Piping Removal Report

If you have any questions, please call me at 510-567-6791 or send me an electronic mail message at jerry.wickham@acgov.org.

Sincerely,

Digitally signed by Jerry Wickham
DN: cn=Jerry Wickham, o=Alameda County
Environmental Health, ou,

email=jerry.wickham@acgov.org, c=US Date: 2011.02.01 11:18:44 -08'00'

Jerry Wickham, California PG 3766, CEG 1177, and CHG 297

Senior Hazardous Materials Specialist

Mr. John Protopappas RO000294 February 1, 2011 Page 2

Attachment: Responsible Party(ies) Legal Requirements/Obligations

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032 2032 (Sent via E-mail to: lgriffin@oaklandnet.com)

Erik Lervaag, Clearwater Group, 229 Tewksbury Avenue, Pt. Richmond, CA 94801 (Sent via E-mail to: <u>ELervaag@clearwatergroup.com</u>)

Olivia Jacobs, Clearwater Group, 229 Tewksbury Avenue, Pt. Richmond, CA 94801 (Sent via E-mail to: OJacobs@clearwatergroup.com)

James Jacobs, Clearwater Group, 229 Tewksbury Avenue, Pt. Richmond, CA 94801 (Sent via E-mail to: augerpro@sbcglobal.net)

Donna Drogos, ACEH (Sent via E-mail to: donna.drogos@acgov.org)
Jerry Wickham, ACEH (Sent via E-mail to: jerry.wickham@acgov.org)

GeoTracker, File

ATTACHMENT B

Permits

Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 11/23/2011 By jamesy

Permit Numbers: W2011-0720

Permits Valid from 11/28/2011 to 11/28/2011

Application Id:

1321573296164

City of Project Site: Oakland

Site Location:

1125 Miller Avenue

Completion Date: 11/28/2011

Project Start Date: Assigned Inspector: 11/28/2011 Contact James Yoo at (510) 670-6633 or jamesy@acpwa.org

Applicant:

Clearwater Group - Erik Lervaag

Phone: 510-307-9943 x227

Property Owner:

229 Tewksbury Ävenue, Point Richmond, CA 94801 P&D 23rd Avenue Associates, LLC

Phone: 510-452-2944

PO Box 687, Oakland, CA 94604

Client: Contact:

** same as Property Owner ** Erik Lervaag

Phone: --

Cell: 510-590-1097

Total Due:

\$265.00

Receipt Number: WR2011-0346

Total Amount Paid:

\$265.00

Payer Name: Olivia Jacobs

Paid By: VISA

PAID IN FULL

Works Requesting Permits:

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 3 Boreholes

Driller: Fast-Tek Engineering Support Services - Lic #: 624461 - Method: DP

Work Total: \$265.00

Specifications

opecifications											
Permit	Issued Dt	Expire Dt	#	Hole Diam	Max Depth						
Number			Boreholes								
W2011-	11/23/2011	02/26/2012	3	2.00 in.	20.00 ft						

0720

Specific Work Permit Conditions

- 1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Applicant shall contact James Yoo for an inspection time at 510-670-6633 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 4. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.
- 5. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

Alameda County Public Works Agency - Water Resources Well Permit

- 6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.
- 7. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

CITY OF OAKLAND • Community and Economic Development Agency

250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Appl# X1101315

Job Site 1125 MILLER AV

Parcel# 019 -0099-001-01

Descr Soil boring(s) on Calcot Place

Permit Issued 11/17/11

No impact on traffic lane allowed.

Call PWA INSPECTION prior to start: 510-238-3651. 4th FLOOR.

Work Type EXCAVATION-PRIVATE P

USA #

Util Co. Job # CB018

Acctg#:

Util Fund #:

Applcnt

Phone#

Lic# --License Classes--

Owner TWENTY THIRD AVENUE PARTNERS

Contractor THE AUGER GROUP INC

X

(510)307-9943 624461 A C57 B

Arch/Engr

Agent

Applic Addr 227 A TEWKSBURY AVENUE, POINT RICHMOND, CA, 94801

		JOB SITE	\$71. \$. \$.	.00 Process \$	AT ISSUANCE 309.00 Permit 336.10 Rec Mgmt \$.00 Invstg \$19.95 Tech Enl
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Applications for which no permit is issued within 180 days shall expire by limitation. No refund more than 180 days after expiration or final.

Permit No. X1101315 Parcel #: 019 -0099-001-01 Project Address: 1125 MILLER AV

Page 2 of 2

Licensed Contractors' Declaration

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Construction Lending Agency Declaration

I hereby affirm under penalty of perjury that there is a construction-lending agency for the performance of the work for which this permit is issued, as provided by Section 3097 of the Business and Professions Code. N/A under Lender implies No Lending Agency.

Lender	Address
	k)

Workers' Compensation Declaration

- I hereby affirm under penalty of perjury one of the following declarations:
- [] I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
- [] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER:	POLICY NO.

[] I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS! COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS, IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3707 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

Hazardous Materials Declaration

- I hereby affirm that the intended occupancy [] WILL [] WILL NOT use, handle or store any hazardous, or acutely hazardous, materials. (Checking "WILL" acknowledges that Sections 25505, 25533, & 25534 of the Health & Safety Code, as well as filing instructions, were made available to you.)
- I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection. I am fully authorized by the owner and to perform the work authorized by this permit.

ADDRESS

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Application ID: 1321573296164

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Риппир Жарка Афгару

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Driller's Name:

Go

Project Site City:

Date Applied	Application ID	Applicant Name	Project Site	Driller Name	Application Status
11/17/2011	1321573296164	Clearwater Group - Erik Lervaag	Oakland 1125 Miller Avenue	Fast-Tek Engineering Support Services	Approved on 11/23/2011

Questions on Public Works Wells Permit Applications? E-mail us at: wells@acpwa.org

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ATTACHMENT C

Site Investigation History

SUMMARY OF SITE INVESTIGATION ACTIVITIES AND REFERENCES LIST

P&D 23rd Avenue Associates, LLC 1125 Miller Avenue Oakland, California ACEH Site Number RO#0000294 Clearwater Group Project Number CB018

Site Location

The P&D 23rd Avenue Associates, LLC property (*site*), an underground storage tank (UST) fuel release *site*, is located at 1125 Miller Avenue, in the City of Oakland, County of Alameda, California. The *site* is improved with a two-story structure constructed on a single slab on grade foundation, which is currently in use as a "work-live" building by a graphic artist who operates a t-shirt production workshop and lives in an apartment located adjacent to and above the work space. The United States Geological Survey Oakland East Quadrangle Map shows the *site* to be located in Section 6, Township 2 south, Range 3 west of the Mount Diablo Base and Meridian (USGS, 1980).

Miller Avenue bounds the *site* to the east, and Miller Place bounds the *site* to the north. Calcot Place defines the property to the southwest. A "work-live" apartment building is located across Miller Place to the northwest, north, and northeast, and a fenced parking and storage lot abuts the *site* to the northeast, east, and southeast. The main line of the Union Pacific Railroad is located to the north, beyond the "work-live" apartments and behind a chain-link fence. The 23rd Avenue railroad overcrossing ramp structure lies across Calcot Place to the west.

Site History

1870 to 1998 – History before the UST removal

Historical records for the *site* and neighboring properties as far back as the 1870's were obtained from local resources. Between 1870 and 1998 the *site* and neighboring properties have had many uses, including industrial, commercial, and most recently, residential. The former north and east parcel boundaries of the 1125 Miller Avenue *site* were established in 1903. In 1963, after part of the block was taken by the City of Oakland by "eminent domain," the current hypotenuse property boundary was formed and defined by Calcot Place.

- Between 1878 and 1903, the current property was part of 25th Avenue and a block defined by Park Avenue (now 23rd Avenue), East 10th Street, 26th Avenue, 25th Avenue, and the Central Pacific Railroad Company railroad bed. No information, except that about ownership, regarding specific use of the *site* is reasonably ascertainable from the locally available historical data record for this time period. Data were reported in the December 1, 2010 "Historical Property Uses" Report produced by Clearwater Group (Clearwater).
- Between 1924 and 1928 (after subdivision), the west half of the northern half of the current *site* (Parcels 1 and 2) was developed with a commercial/industrial structure.
- Between 1928 (first phone directory listing) and 1946, the *site* (Parcels 1 and 2) was used by Bay Cities Forge Company, for blacksmithing and general metal "forgings," as stated in the Polk's Telephone Directory (listing and advertisement). The interior work area of the Forge (west half of Parcels 1 and 2) aligns with five refusals at soil boring S6 as well as the refusal at TW1 shown in **Figure A**. The unimproved backyard (east half of Parcels

- 1 and 2) was improved, by 1950, with a brick incinerator (at the current location of the workshop and the kitchen and bathroom). In 1947, Parcel 3 was improved with a Residence fronting on 23rd Avenue, and in 1950 Parcel 4 was improved with a soda bottling works.
- The Sanborn map shows that, in the backyard of the Residence, a garage structure (structure labeled "auto") and a garden were present at the *site* (Parcel 3). The former location of the auto garage is approximately equivalent to the current position of part of the living room, bathroom, and kitchen.
- According to Mr. Ronald Dreisbach (a part owner of P&D 23rd Avenue Associates, LLC), the *site* (Parcel 1 and 2) was used for lumber storage, and the neighboring property to the north was used as a planing mill and a lumber yard as early as 1940; these uses are corroborated by Mr. Dreisbach's photo of his father at the property and by the Sanborn Maps. The incinerator that was at the *site* was built for the burning of sawdust and wood debris originating from the lumber planing operation. The incinerator was constructed in the current location of the kitchen/dining area and a large portion of the current printing workshop at the *site*. According to the telephone directories, the planing mill operation to the north ceased in approximately 1955 and was replaced by a box and lumber operation, which was replaced by a fruit sorting and packing operation.
- In 1952-1957, the *site* was used as a warehouse (except for the incinerator) for Parcels 1 and 2, a residence for Parcel 3, and a venetian blind factory for Parcel 4.
- In 1959, the *site* was used for the storage of firewood and old machinery as well as for a records storage warehouse; the incinerator was no longer in use on Parcels 1 and 2. Parcel 3 was razed, and Parcel 4 remained as a venetian blind factory.
- In 1960, Parcels 1 and 2 continued to be used for a records storage warehouse as well as for a woodworking shop. Parcel 3 was improved with a steel warehouse. Parcel 4 remained in use as a venetian blind factory.
- Between 1962 and 1963, the City of Oakland (City) took the *site* by eminent domain for construction of its 23rd Avenue railroad overcrossing ramp. After the City took the property, the *site* buildings were razed.
- After the block was razed, a new street, Calcot Place, was constructed across the block. The Dreisbachs, who had owned Parcels 1 and 2 of the block, became the owners of the new "triangle" property upon which they built a new building (Architect Plans are dated 1966), which is the current building.
- No records are present regarding the year that the two 5,000-gallon fuel tanks were installed. However, the architect's drawing dated 1966 for the *site* indicates the existence of plans for a canopy to be built over a concrete pad, which corresponds to the location of the tank pit. This suggests that the tanks were considered in the planning of the 1966 architectural design. Mr. Dreisbach reported the use of gas and diesel in the tanks since the 1970's.
- According to Sanborn maps, a printing company operated at the *site* between 1967 and 1969. Between 1970 and 1980, according to street directories, the *site* was used as a U.S. Department of Agriculture (USDA) meat inspection facility and warehouse. Two floor drains and a grease trap that drained to the sanitary sewer (see **Figure A**), were likely installed during this time for use with the meat inspection facility operations.
- Telephone directory records indicate that between 1980 and 1981 the USDA meat inspection facility ceased operations at the *site*.

- Between 1981 and 1990, the *site* was used as a mechanics shop for the rebuilding of Cummins diesel injectors. Hazardous materials were stored or used on *site* for this operation.
- In 1985 the fire department reported that two 5,000-gallon diesel tanks were in use. (Again, the date of tank installation is not reasonably ascertainable in the record.) Hazardous waste was reported to have been generated in the form of diesel, solvents, and sludge originating from the injectors. [Until recently (2010), two floor drains from the meat packing operation (the current t-shirt warehouse area) were open. They are now cemented closed.]
- In 1989, leakage was detected at the unions of the delivery lines on both fuel pumps, during a routine inspection.
- In March 1990, Heitz Trucking, Inc. began to use the *site*.
- In 1993, a routine inspection reported the generation of waste oil and solvents, which were being stored at the *site*.
- In 1995, the *site* was re-developed as an artist "work-live" space; however, the truck refueling facility remained in operation.
- In 1996, a routine inspection reported that fuel had spilled into the storm sewer system and that the UST vent pipes were broken.
- In 1998, a fuel spill from the fuel tank dispenser into the storm sewer was reported, and broken vent pipes were noted.
- In 1990, Mechanic Jim Brooks claimed that he had "worked with the tank system for 10 years."
- During December 1990, seepage of fuel at a vent pipe coupling located one foot above ground was reported, according to the Fire Department.

December 1998

Environmental Bio-Systems (EBS) excavated and removed two 5,000-gallon diesel USTs and the associated product piping from the tank pit at the *site*. A total of four soil samples were collected near the ends of each tank from approximately nine feet below ground surface (bgs). All four soil samples were subsequently analyzed for total petroleum hydrocarbons detected as diesel (TPH-d); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and methyl tertiary butyl ether (MTBE). Samples were collected from the pit wall northeast and southeast of Tank A (the northern tank). No detections were reported above the method detection limit in the samples collected from the northeast and southeast ends of Tank A. Samples were collected from the pit wall northwest and southwest of Tank B (the southern tank); the northwest sample was found to contain 1,800 milligrams per kilogram (mg/kg) TPH-d and 0.051 mg/kg xylenes, and no detections were reported above the method detection limit in the southwest sample.

February 2000

The February 18, 2000 "Workplan: Subsurface Exploration" was produced by EBS.

October 2000

In October 2000, EBS drilled four soil borings (designated TW1, TW2, TW3, and D1). Soil borings TW1 through TW3 were drilled in the concrete-paved area surrounding the former UST excavation. Boring D1 was drilled in the building, adjacent to the former dispenser location, which had been housed within an enclosed room at the west end of the building.

EBS collected four soil samples from the borings and installed pre-packed temporary well points in two of the borings (TW2 and TW3). Soil sample TW2 was collected at 16.5 feet bgs, and soil sample TW3 was collected at 17 feet bgs; two soil samples were collected from D1. The drilling and sampling were performed by FAST-TEK Engineering Support Services of Point Richmond, California (C-57 Lic. #624461) using a Geoprobe 5400 direct push rig. Borings TW2 and TW3 were drilled to a total depth of 22 feet bgs. Boring D1 was drilled to a total depth of 8 feet bgs, and boring TW1 was abandoned at 3 feet bgs because of subsurface obstructions; neither the soil nor groundwater was sampled at this location. Groundwater was encountered between 16.5 feet and 17.0 feet bgs. EBS submitted four soil samples and two groundwater samples to Analytical Sciences, Inc. of Petaluma, California, a California Statecertified laboratory for TPH-d, BTEX, and MtBE analyses. The results were presented in the EBS "Subsurface Exploration Report" dated December 31, 2001.

Soil sample TW2-16.5' was found to contain 4,200 mg/kg TPH-d and 1.4 mg/kg benzene. Soil sample TW3-17' was found to contain 2,700 mg/kg TPH-d. Soil samples D1-3' and D1-8' were found to contain 3,400 and 34 mg/kg TPH-d, respectively. Groundwater sample TW2-H₂O was found to contain 660 micrograms per liter (μ g/L) TPH-d, 65 μ g/L benzene, 2.4 μ g/L toluene, and 3.2 μ g/L total xylenes. Groundwater sample TW3-H₂O was found to contain 800 μ g/L TPH-d and 0.9 μ g/L benzene.

April 2002

On April 15, 2002, Alameda County Environmental Health Department (ACEH) approved the work proposed in Clearwater's "Site Closure Workplan" (dated March 21, 2002). An October 3, 2002, "Site Closure Report" reported findings of the work that had been approved in the workplan. Sensitive receptors listed in the "Site Closure Report" included the residents of the building, and Clearwater recommended that migration pathways (via concrete cracks and other permeable features) be sealed. On the basis of information on groundwater flow available in reports on other local sites, the groundwater flow direction was found to be north at a gradient of 0.01. No drinking water wells were found to be present in the direct vicinity per the EDR report. However, subsequently, several wells per block have been identified on the Sanborn Maps. The only subsurface conduits identified were the utility trenches under and around the property.

November 2005

On November 16, 2005, Clearwater supervised the advancement of four soil borings (S5 through S8) at the *site*. One grab groundwater sample was collected from soil boring S5, which was located between the dispenser and the former tank pit. Boring logs indicated that the subsurface (to 20 feet) is composed of mostly clayey gravel (most likely this reflects backfill), and the laboratory results showed no detectable concentrations of BTEX. The concentrations of TPH-d in soil ranged from 5.8 mg/kg in S5-20' to 1,200 mg/kg in S7-15'. Analytical results of the groundwater sample at S5 indicated a TPH-d concentration of 890 μ g/L, and no other constituents of concern were reported. Evidence of previous forge use was observed in the drilling of soil boring S6 (5 refusals), consisting of metal slag, debris, and general fill materials. These results were reported in the February 23, 2006, Clearwater document titled "Subsurface Investigation Results."

June 2006

On the basis of approvals by ACEH on June 13, 2006, and August 4, 2006, Clearwater performed a soil investigation and soil vapor survey at the *site*. Soil samples were collected from S9 through S11 at 4 feet bgs. Soil vapor samples were collected at borings V1 through V3. TPH-d was reported at concentrations ranging between 21 mg/kg in S11 to 7,500 mg/kg in S9. No soil sample results showed concentrations of BTEX above the laboratory reporting limit of 0.0050 mg/kg. Two soil vapor samples were collected from each vapor boring at 4 feet bgs. Concentrations of TPH-d detected in vapor samples ranged from 180,000 micrograms per cubic-meter (µg/m³) in V2.2 4L (V2 at 2 feet bgs using a 4 liter canister) to 7,300,000 µg/m³ in V3.4 1L. Results were documented in the January 11, 2007, Clearwater report titled "Results of Soil Vapor and Soil Boring Sampling Investigation – Risk Based Corrective Analysis Report."

June 2010

On October 28, 2009, ACEH concurred with Clearwater's work plan titled "Work Plan for Sub-Slab Vapor Sampling" (dated September 9, 2008), and this work phase was begun on June 10, 2010. Soil vapor samples were collected from the soil vapor points on June 17, 2010. Samples were collected at installed soil vapor points SS-1 through SS-6. The constituent of concern, TPH-d, was not detected in any of the soil vapor samples. Toluene (T) was detected in SS-3 at $2,600~\mu g/m^3$. Xylenes (X) were detected in SS-3 at $6,050~\mu g/m^3$. Ethylbenzene (E) was detected in SS-3 at $2,000~\mu g/m^3$. TPH-g was detected in SS-3 at $37,000~\mu g/m^3$. No other constituents of concern were detected. The source for TPH-g and TEX was unknown. This information is documented in the Clearwater July 23, 2010, report titled "Results of Sub-Slab Soil Vapor Investigation Report." To rule out propane as the TPH-g source (SS-3 is close to a 3-inch diameter natural gas line servicing the building structure but not currently in use), both methane and PG&E's leak detection gas were tested for. The results for both were negative.

Because of the elevated reporting levels reported in the soil vapor samples collected June 17, 2010, ACEH requested re-sampling of the 6 soil vapor sample points, in a letter dated August 16, 2010. Re-sampling was performed on November 4, 2010. The re-sampling results indicated a TPH-d concentration of 5,800 μ g/m³ at vapor sampling point SS-3. No other detections of TPH-d were reported by the laboratory. Naphthalene was detected in SS-3 (8.0 μ g/m³) and in SS-6 (4.6 μ g/m³). Analytes 1-methylnaphthalene (24 μ g/m³) and 2-methylnaphthalene (36 μ g/m³) were both detected in SS-3. Analyte 2-methylnaphthalene was also detected in SS-6 (4.3 μ g/m³). Concentrations of TPH-g and TEX were detected above detection limits in SS-3 (TPH-g at 13,000 μ g/m³, toluene at 60 μ g/m³, ethylbenzene at 560 μ g/m³, and xylenes at 2,940 μ g/m³).

The focus of the investigation shifted to identifying the source that was contributing to the TPH-g and TEX detections. The lack of benzene detections indicated that the detected fraction of TPH-g was likely a weathered fuel and thus the evidence of a relatively old release. Concurrently, Clearwater obtained data on historical uses for information on the possible source of such a release. The uses of interest include an auto garage, a truck parts repair company, an incinerator, a forgings (blacksmith), and the fueling facility. The utility infrastructure in the surrounding streets may provide a conduit. But no clear source was identified. The "Historical Uses" Report on the *site* was produced on December 1, 2010.

The November 4, 2010, soil vapor sampling results were documented in the December 10, 2010, report titled "Results of Additional Sub-Slab Vapor Investigation." This investigation included a workplan.

Clearwater staff met with ACEH staff to review the workplan. Discussion during the meeting resulted in the following changes to the projected plan of work at the *site*: 1) the installation of an additional vapor sample point (SS-7) within the first floor living area; 2) a round of sampling of all existing vapor points (SS-1 through SS-7); 3) three soil borings for the collection of soil and groundwater data near the former tank pit, west of the former tank pit, and west of SS-3; and 4) the (limited) excavation of impacted soil and removal of the vent pipes and dispenser island. Clearwater produced a workplan addendum to address these changes.

February 2011

Per the February 1, 2011, ACEH approval of Clearwater's January 24, 2011, work plan addendum titled "Revised Workplan," soil vapor points SS-5R and SS-7 were installed on February 10, 2011. SS-5R replaced SS-5 because the original SS-5 had been crushed by a t-shirt printer. SS-7 was installed within the living room as a step-out from SS-3. On April 1, 2011, soil vapor probes SS-1 through SS-7 were sampled. TPH-g was detected in all the samples collected during the April 2011 event, at concentrations ranging from <160 $\mu g/m^3$ in several samples to 12,000 $\mu g/m^3$ in sample SS-3. In addition to naphthalene (8,200 $\mu g/m^3$) and TPH-g (12,000 $\mu g/m^3$), all the BTEX components were detected in sample SS-3. Only toluene was detected in samples SS-5 (8.2 $\mu g/m^3$) and SS-7 (5.9 $\mu g/m^3$). Naphthalene was also detected in SS-7 at a concentration of 10 $\mu g/m^3$. TPH-d was detected above the detection limit in SS-3 (8,200 $\mu g/m^3$) and SS-4 (9,500 $\mu g/m^3$). Because of inconclusive source information, Clearwater requested the installation of additional step-out soil vapor sampling points, which ACEH approved.

November 2011

Per concurrence from ACEH on June 6, 2011, Clearwater installed soil vapor points SS-8 through SS-10 on November 10, 2011. A soil and groundwater investigation took place on November 28, 2011. Soil samples were collected at various depths in soil borings S12 through S14. The highest TPH-d concentration in soil [(in the tank pit) 1,900 mg/kg] was detected in S13 at 14 feet bgs. TPH-g was detected at 65 mg/kg in S13 at 14 feet bgs. A total of three grab groundwater samples were collected during the November 28, 2011, investigation, at borings S-12, S-13, and S-14. The highest TPH-d concentration was detected in S-13 at 36,000 $\mu g/L$ (collected between 11 and 15 feet bgs). The highest TPH-g concentration was detected in S-13 at 200 $\mu g/L$ (collected between 11 and 15 feet bgs).

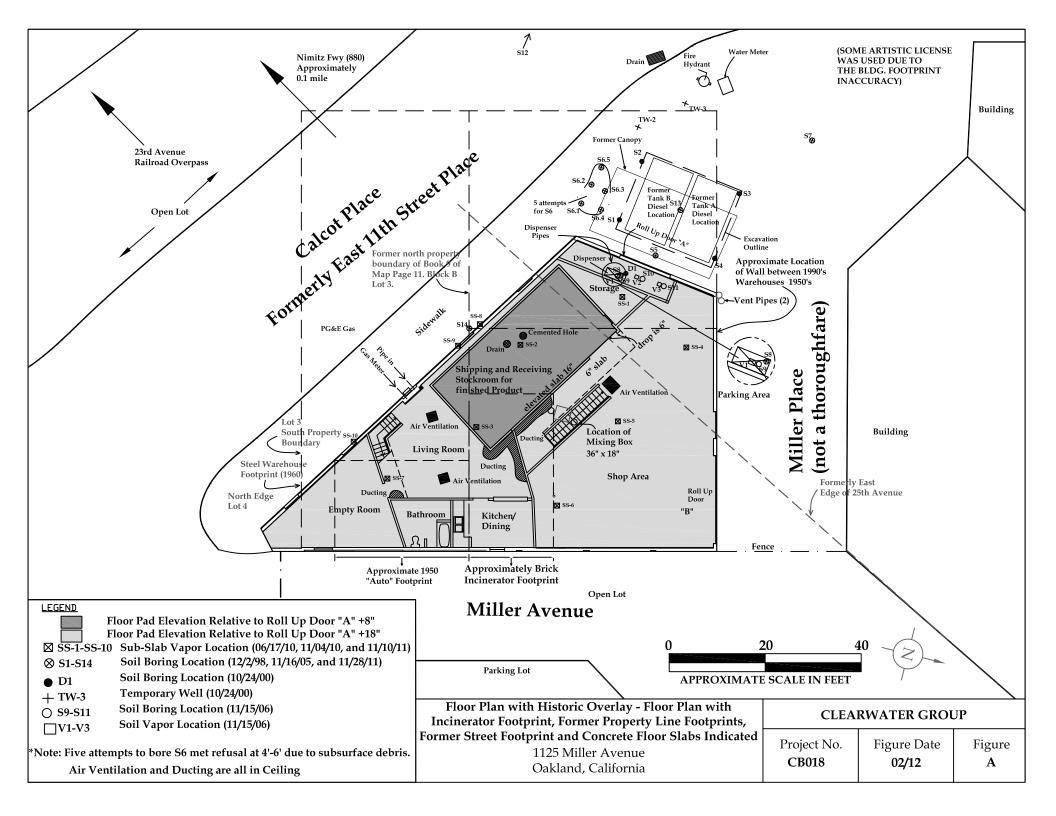
December 2011

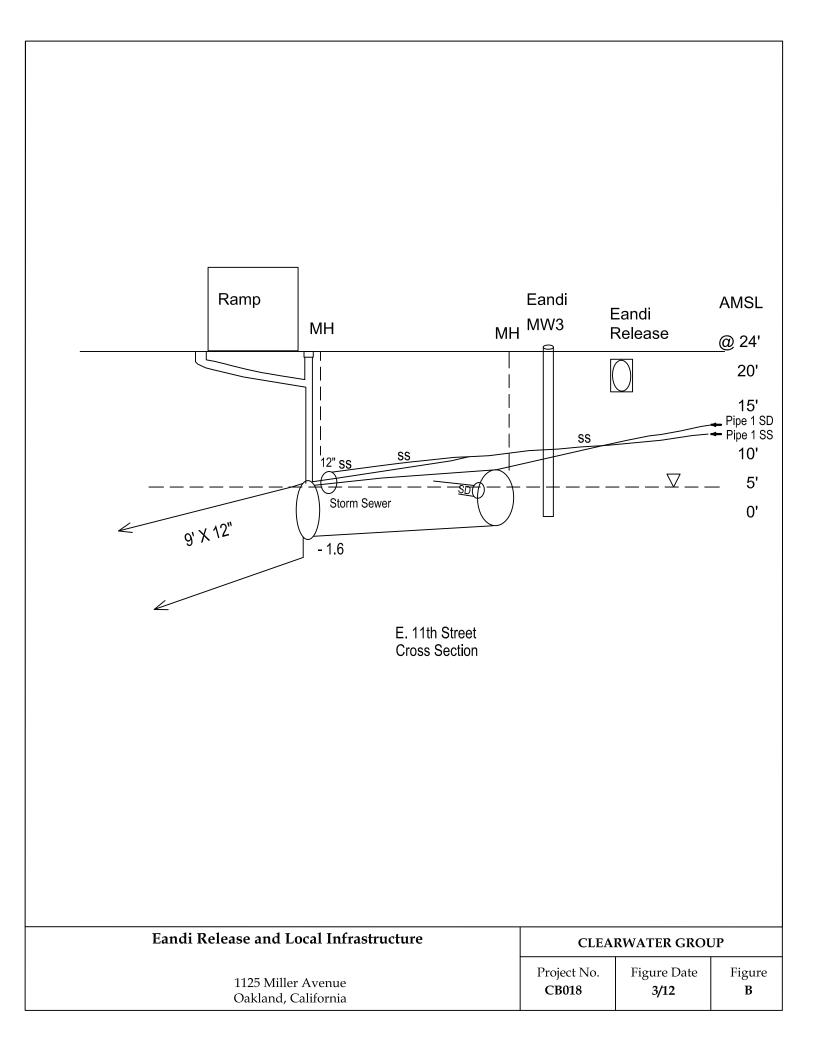
On December 8, 2011, soil vapor samples were collected at sample points SS-1 through SS-10.

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ATTACHMENT D

Standard Operating Procedures

CLEARWATER GROUP Direct-Push Drilling Investigation Procedures

The direct-push method of drilling soil borings has several advantages over hollow-stem auger drilling. The direct-push method produces no drill cuttings and is capable of 150 to 200 feet of soil boring or well installation work per day. Direct-push drilling can be used for soil gas surveys, soil sampling, groundwater sampling, and installation of small-diameter monitoring well and remediation system components such as air sparge points. The equipment required to perform direct-push work is varied, ranging from a roto-hammer and operator to a pickup truck-mounted rig capable of substantial static downward force combined with percussive force. This method allows subsurface investigation work to be performed in areas inaccessible to conventional drill rigs such as basements, beneath canopies, or below power lines. Direct-push equipment is ideal at sites with unconsolidated soil or overburden, and for sampling depths less than 30 feet. This method is not appropriate for boring through bedrock or gravelly soils.

Permitting and Site Preparation

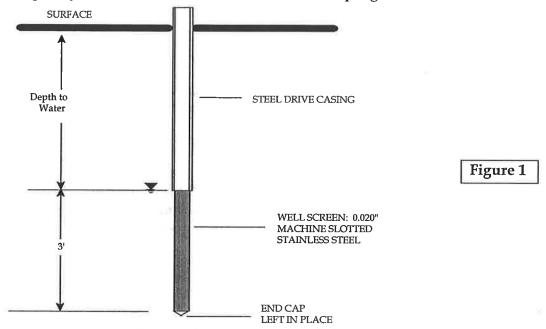
Prior to direct-push drilling, Clearwater Group will obtain all necessary permits and locate all underground and above-ground utilities through Underground Service Alert and a thorough site inspection. All drilling equipment will be inspected daily and will be maintained in safe operating condition. All down-hole drilling equipment will be cleaned prior to arriving on-site. Working components of the rig near the borehole, as well as casing and sampling equipment, will be thoroughly decontaminated between each boring location by either steam cleaning or washing with an Alconox® solution. All drilling and sampling methods will be consistent with ASTM Method D-1452-80 and county, state, and federal regulations.

Boring Installation and Soil Sampling

Direct-push drilling uses a 1.5-inch outer barrel with an inner rod held in place during pushing. Soil samples are collected by penetrating to the desired depth, retracting the inner rod, and attaching a soil sampler. The sampler is then thrust beyond the outer barrel into native soil. Soil samples are recovered in brass, stainless steel, or acetate sample tubes held inside the sampler.

Soil removed from the upper tube section is used for lithologic descriptions, according to the Unified Soil Classification System. If organic vapors will be analyzed in the field, a portion of each soil sample will be placed in a plastic zip-lock bag. The bag will be sealed and warmed for approximately 10 minutes to allow soil vapors to be released from the sample and diffused into the head space of the bag. The bag is then pierced with the probe of a calibrated organic vapor detector and the detector readings recorded with the lithologic descriptions on the soil boring log. Soil samples selected for laboratory analysis will be covered on both ends with TeflonTM tape and plastic end caps. The samples will then be labeled, recorded on a chain-of-custody document, stored on ice in a cooler, and transported to a state-certified analytical laboratory.

Temporary Well Installation and Groundwater Sampling



Grab Groundwater Sample Collection

Groundwater samples are collected by removing the inner rod and attaching a 4-foot stainless steel screen with a drive point at the end (Figure 1). The screen and rod are then inserted inside the outer barrel and driven to the desired depth, where the outer rod is retracted to expose the screen. If enough water for sampling is not produced through the stainless well screen, a 1-inch PVC screen can be installed in the boring and the outer rod retracted to leave a temporary well point for collecting groundwater samples, water level, or other parameters.

Monitoring Well Installation and Development

Permanent small-diameter monitoring wells are installed by driving a 2-inch diameter outer barrel and inner rod as described above. Upon reaching the desired depth, the system is removed, and 1-inch outside diameter (OD) (1/2-inch inside diameter [ID]) pre-packed PVC piping is installed. The well plug is created using granular bentonite. The well seal is constructed of cement and sealed at the surface with a conventional "Christy® Box" or similar vault. Monitoring wells are developed by surging the well with a small-diameter bailer and removing approximately 10 casing volumes of water, until the water is clear.

Groundwater Sample Collection and Water Level Measurement from Monitoring Wells

Before groundwater is collected from the wells, the water levels are measured in all wells using an electronic water-level gauge. Monitoring wells are prepared for sampling by purging three or more well volumes of water. Water is removed using small-diameter bailers, a peristaltic pump, or by manually pumping using tubing with a check valve at the bottom. During removal of each well volume of water, the temperature, pH, and conductivity are measured and recorded on the field sampling form. Successive well volumes are removed until the parameters have stabilized

or the well has gone dry. Prior to sampling, the well is allowed to recover to within 90% of the stabilized water levels. The groundwater samples¹ are collected using small-diameter bailers.

The samples are decanted into laboratory-supplied containers, labeled, recorded on a chain-of-custody document, stored on ice in a cooler, and transported to a certified analytical laboratory for analysis.

¹ Small-diameter wells often produce small sample quantities and are appropriate for analysis of volatile and aromatic compounds and dissolved metals analysis using VOA vials. Obtaining liter-size samples can be difficult and time consuming. Monitoring wells installed by the direct-push method are most effective at sites where the subsurface soils are more coarse than silt, gasoline components are the key contaminants of concern, and water levels are not more than 25 feet below ground surface.

CLEARWATER GROUP Direct-Push Drilling Investigation Procedures Single Rod Macro-Core® Sampler

The direct-push method produces no drill cuttings and is capable of 150 to 200 feet of soil boring per day. Direct-push drilling can be used for soil sampling, grab groundwater sample collection, soil gas surveys, and installation of remediation system components, such as air sparge points.

A pickup truck-mounted rig is used to drive the direct-push soil sampler. This method allows subsurface investigation work to be performed in areas inaccessible to conventional drill rigs such as beneath canopies, or below power lines. Direct-push equipment is ideal at sites with unconsolidated soil or overburden, and for sampling depths less than 30 feet. This method is not appropriate for boring into bedrock.

Permitting and Site Preparation

Prior to direct-push drilling, Clearwater Group will obtain all necessary permits and locate the underground utilities through Underground Service Alert and a thorough site inspection. The drilling equipment will be inspected daily and will be maintained in safe operating condition. The down-hole drilling equipment will be cleaned prior to arriving on-site. Working components of the drill rig near the borehole, as well as casing and sampling equipment, will be thoroughly decontaminated between each boring location by either steam cleaning or washing with an Alconox® solution. The drilling and sampling methods will be consistent with county, state, and federal regulations.

Soil Boring and Sampling

Single rod Macro-Core[®] direct-push drilling uses a 4-foot long by 1.5-inch diameter steel sample barrel with an inner, removable acetate liner. The sample barrel is open at the bottom. Soil samples are collected in four-foot sample intervals by driving the barrel into the soil, retracting the barrel, and removing the inner acetate liner, which has been filled with soil. The sample collection process is repeated for each four-foot depth interval. Following sample collection the boring is grouted according to regulatory agency requirements.

The four-foot long, clear, acetate liners are visually inspected and 6-inch sections of the liner, selected for laboratory analysis, are sawn from the liner and capped on both ends with tight-fitting plastic caps. The samples are labeled, recorded on a chain-of-custody document, stored on ice in a cooler, and transported to a state-certified analytical laboratory.

The remainder of the liner is split open and the soil examined in order to prepare lithologic descriptions according to the Unified Soil Classification System. A photo-ionization detector is used to scan the soil for organic vapors.

Head Space Method

To obtain a head space reading a portion of soil is placed in a plastic zip-lock bag. The bag is sealed and warmed for approximately 10 minutes to allow soil vapors to be released from the soil and diffused into the head space of the bag. The bag is then pierced with the probe of a calibrated photoionization detector and the detector reading is recorded on the soil boring log.

Grab Groundwater Sample Collection

Groundwater samples are collected by removing the sampler from the soil boring and lowering a disposable bailer into the boring. If enough water for sampling is not produced, or the boring is prone to caving, a 1-inch diameter PVC screen and casing can be installed in the boring to leave a temporary well for collecting groundwater samples, or depth to groundwater information. The groundwater samples are collected using small-diameter bailers.

The samples are decanted into laboratory-supplied containers, labeled, recorded on a chain-of-custody document, stored on ice in a cooler, and transported to a certified analytical laboratory for analysis.

CLEARWATER GROUP

Soil Sampling Procedures

Soil samples are typically collected in six-inch long, two-inch diameter brass or acetate tubes. If copper or zinc contamination is the subject of the investigation, acetate or stainless steel liners are used instead of brass. Soil sample locations are typically selected by field screening a portion of the soil for organic vapors using a calibrated organic vapor meter.

Once the sampling location has been determined, a small thickness of superficial soil is removed prior to collection, to prevent cross contamination. If the location being sampled has been exposed to the air for more than a few minutes, hand-tools will be used to dig at least 12 inches into the soil in order to collect as fresh a sample as possible. The sample is collected by pushing the tube into the soil by hand, or a rubber mallet may be used if the tube can not be driven by hand. If it is not possible to drive the tube into the soil, loose soil may be scraped from the freshly exposed surface and placed in the tube by hand.

Soil samples may also be collected using a hand auger and a slide hammer-driven sampler. The hand auger is advanced the desired depth into the soil, then withdrawn and replaced with the slide hammer sampler. The slide hammer sampler contains a 6-inch long by 2-inch diameter brass sample liner (or two 3-inch long liners) inserted inside the threaded core barrel, which is attached to the slide hammer by an extension rod. The core barrel is driven into the soil by the slide hammer, then withdrawn, unscrewed, and the sample liner removed.

Soil samples selected for laboratory analysis are immediately sealed on both ends with Teflon® lined plastic end caps, labeled, documented on a chain-of-custody form, and placed in a chilled cooler for transport to a state-certified laboratory.

To prevent cross-contamination of the samples, Clearwater personnel adhere to the following procedures in the field:

- A new, clean pair of latex or nitrile gloves are donned prior to collecting each sample.
- All hand-digging and sampling equipment is thoroughly decontaminated between each sample, by scrubbing equipment in a wash of Alconox® solution, followed by a double rinse in potable water. If required the second rinse will consist of distilled water.

ATTACHMENT E

Soil Boring Logs

FIELD LOCATI	ON OF	BORII	NG:	57 ●	COSIN	CLIEN 23RD	NT/LOCA AVENUE	TION: PARTNERS	CITY: OAKLAND	JOB NO.: CB018H	BORING/WELL NO.: S12
⊗ 512	DRILLING CONTRACTOR: FAST TECK				NTRACTOR:	DRILL RIG TYPE; GEOPROBE 5400	WELL DEPTH: NA	BORING DIAMETER: 2.0 INCHES			
512		Fire Hydrun	1	TW-2 51		DRILL RIG OPERATOR: KEVIN POPE			WELL MATERIAL: NA	BORING DEPTH: 24.0 FT	FILTER PACK: NA
		Stea Dra	m \	/	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NOTE	G = TF D = TF S = So	H - Diesel Conc	ncentration in mg/kg (Soil) or με entration in mg/kg (Soil) or μg/l er	z/L (Water) L (Water)	DRILLING DATE: 11/28/2011
SULTS		-	ERED		,				SAMPLING METHOD: MAC	ROCORE	
AL RE9 /kg µg/L	DEPTH	RIVE	ECOV.	NO				82	MONITORING INSTRUMENT	: PHOTOIONIZATION	DETECTOR
ANALYTICAL RESULTS; SOIL in mg/kg WATER in µg/L	SAMPLE DEPTH and TYPE	INCHES DRIVEN	INCHES RECOVERED	SAMPLE	ODOR	PID	DEPTH (FEET)	GRAPHIC LOG			
∢ ∅ ≻	0, %	I		8,0	0	-		707070	3" Asphalt Baserock: Dark Yellowish Brow	n (10YR 4/6) sandstone į	gravel, loose, dry
					NO	0	1 2	7	Clayey Sand (SC), Very Dark C clay, moderately plastic	Grey (10YR 3/1), soft, mo	ist, 60% very fine sand, 40%
							3				
				CL), Dark Olive Grey (5)	(4/2), stiff, moist, 50% lean clay,						
		-					 6	(CL///	25% fine sand, 25% fine gravel		
					NO	0	7				
		48	48	G			— 8 — 9		Sandy Lean Clay (CL), Dark Olive Grey (5Y4/2), medium stiff, moist, low plasticity, 65% clay, 35% fine sand, color change at 10' to Olive Grey (5Y 4/		m stiff, moist, low to moderate Olive Grey (5Y 4/2)
							10				
G = <50	w				NO	0	11		Sandy Lean Clay (CL), Olive (5Y5/3), stiff, wet, low to moderate pla fine sand		noderate plasticity, 60% clay, 40%
D = 1,300		48	40	G-F	NO	0	12				
					NO	0	13				
							— 14 — 15	655555	Sandy Clay with Gravel (GC)		2:
					NO	0	16	27,697	Silty Sand (SM), Yellowish Bro	wn (10YR 5/4), loose, we	t. 40% silt. 60% fine sand, sands
		48	45	G			17	'SM	become coarser with depth to	nedium fine at 17'	
G = <1.0 D = 8.6	S	-			NO	0	18	SW-SM	Well Graded Sand with Silt and wet, 10% silt, 65% fine to medi stained sandstone and chert, g	ım sand, 25% fine subrou	inded gravel. Gravels are iron
D - 6.0		-			NO	0	19	SW-SWI	sumed sumstone and energy g	aver content mercases wi	ar depui.
		48	48	G			20		Sandy Lean Clay (CL), Light C clay, 40% very fine to fine sand		iff, wet, moderately plastic, 60%
					NO	0	—— 21 —— 22	//cl//	cay, to a very line to the outle	,	
							23		50% clay, 20% very fine to fine	sand, 30% dark grey fine	gravel
					NO	0	24	//////			SED GE
		_					25				STERED GEOLO
							26		0 1 5		
							27		Sample Type S = Soil; Soil Sample Results W = Water; Groundwater Sar	in mg/kg	No. 2087
							—— 28 —— 29		, -	73	CERTIFIED /
30										1	GEOLOGIST
				m		31				WE OF CAUFOR	

CLEARWATER GROUP

Sheet 1 of 1

LEAKWAI	EK	טאנ	OF								Sheet 1 of 1	
FIELD LOCAT	ION OF		VG: S3	Exca Out	vation line	ı	NT/LOCA AVENUE	TION: PARTNERS	CITY: OAKLAND	JOB NO.: CB018H	BORING/WELL NO.: S13	
Water Meter		S13	N. T. S.	Location	9:54		DRILLING CONTRACTOR: FAST TECK		DRILL RIG TYPE: GEOPROBE 5400	WELL DEPTH: NA	BORING DIAMETER: 2.0 INCHES	
ire Ø	TW-3 TW-		Tank B	wom /	95 7		L RIG OPE N POPE	RATOR:	WELL MATERIAL: NA	BORING DEPTH: 24.0 FT	FILTER PACK: NA	
lydrant Storm	/	S2 S6.5	S6,3	\$6.4	a di	NOTE	G = TPI D = TPI	H - Gasoline Co H - Diesel Conce	l ncentration in mg/kg (Soil) or μg, entration in mg/kg (Soil) or μg/L	L (Water) (Water)	DRILLING DATE: 11/28/2011	
Drain Ž	\rightarrow	1	A		·/////	-1	S = Soil		er SAMPLING METHOD: MACR		11/20/2011	
ANALYTICAL RESULTS: SOIL in mg/kg WATER in µg/L	E	EN	INCHES RECOVERED					(2)	MONITORING INSTRUMENT:		DETECTOR	
ICAL I Ig/kg n µg/I	DEP	DRIV	RECC	Q				0101				
IALYT IL in m ATER i	SAMPLE DEPTH AND TYPE	INCHES DRIVEN	ICHES	SAMPLE CONDITION	ODOR	DE DE	DEPTH (FEET)	GRAPHIC LOG				
W 88 A	S, A	4	A	\%\C	0	딥			4" Concrete			
	\vdash				NO	0	1		Fill: Silty Sand (SM), Dark Yello 70% fine sand, 5% fine gravel	wish Brown (10YR 4/6),	loose, dry to moist, 25% silt,	
					NO	0	2	* SM	g-2			
							3					
					NO	0						
		36	30	F			5	7////	Sandy Lean Clay with Gravel (C	TL), Olive (5Y 4/3), stiff,	moist to wet, 60% clay, 25% fine	
							6		sand, 15% fine gravel			
							7	/d.//				
		48	48	G	NO	0	— в					
							9					
							— 10 — 11		Sandy Silt (ML), Dark Greenish Grey (10Y 4/1), stiff, moist, 10% clay, 50% silt, 40% v fine sand, trace of fine gravel, strong odor to 16'			
G = 7.0 D = 740	S W				Strong	100	12		rine sand, trace of fine gravel, so	rong odor to 16		
G = 200 D = 36,000		48	48	G	Strong	65	13	ML				
					Strong	125	14		13.5'-15' 25% silt, 75% fine sand			
G = 65 D = 1,900	S						15					
					Strong	25	16					
	_	48	45	G			17					
					Weak	10	18	PAO AO A				
G = 4.0	S			_	NO	0	19	500000	Silty Gravel with Sand (GM), Ye silt), 25% very fine to fine sand, mostly sandstone with some che	50% fine subangular to s		
D = 4.4		40	40		NO	0	20	P C GM3 6	mostry satiustofie with some che	-1L		
	-	48	48	G	NO	0	21	50000				
	-				140	Ü	22	17////	Sandy Lean Clay (CL), Light Ol:		ff, wet, moderately plastic, 60%	
G = <1.0 D = <1.0	S				NO	0	23	(cl/)	clay, 40% fine sand, light iron st	ain		
							24	//////		.0	STERED GEOLO	
	_						25			16	81	
	-						26		Sample Type S = Soil; Soil Sample Results in	n mg/Kg	POREDT I NELSON	
							27		No. 2087		No. 2087	
							28			/*	CERTIFIED /*	
							29			/	GEOLOGIST	
							30		OF CALFOR			
							31					
	1						22					

LOGGED BY: Robert L. Nelson, PG, CEG APPROVED BY: James A. Jacobs, PG, CHG

APPROVED BY: James A. Jacobs, PG, CHG

LOGGED BY: Robert L. Nelson, PG, CEG

LEARWA	ΓER C	GRO	UP									Sheet 1 of 1		
FIELD LOCAT	LOCATION OF BORING: CLIENT/LOCATION: 23RD AVENUE PARTNERS Cemented Hole Depths DRILLING CONTRACTOR:						NT/LOCAT AVENUE	TON: PARTNERS		iy: Akland	JOB NO.: CB018H	BORING/WELL NO.: S14		
tor tor	St.		Cem	ented Hole	Drain		LING CON	TRACTOR:		DRILL RIG TYPE: WELL DEPTH: GEOPROBE 5400 NA		BORING DIAMETER: 2.0 INCHES		
Calco	See Enlargeme in Inset "A"			155.0	1	1	L RIG OPEI IN POPE	RATOR:	WI Na	ELL MATERIAL: A	BORING DEPTH: 24.0 FT	FILTER PACK: NA		
Calcot Place			/	15 July 12	811	NOT		I - Diesel Conce	entration in	in mg/kg (Soil) or µg, mg/kg (Soil) or µg/L		DRILLING DATE: 11/28/2011		
ULTS			ERED	Γ,			5 501			G METHOD: MACI	ROCORE			
AL RES 'kg 'g/'L	DEPTH	RIVEN	ECOV	Z				8	MONITO	RING INSTRUMENT	PHOTOIONIZATION	DETECTOR		
ANALYTICAL RESULTS: SOIL in mg/kg WATER in µg/L	SAMPLE DEPTH AND TYPE	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	ODOR	PID	DEPTH (FEET)	GRAPHIC LOG						
₹88×	N. A.	П	П	S O	0	Д	(9)		2" Concre	te				
					YES	3.0	1		Clayey Sa 60% very		Grey (10YR 3/1), soft, mo	ist, moderately plastic, 40% clay,		
					NO	0.1	2	SC SC						
					3									
							5							
		36	36	F	NO	0	6	11///	Sandy Lean Clay (CL), Brown (7.5YR 4/2), stiff, moist, 60% clay, 35% very fine to fi sand, 5% fine deeply weathered gravel					
					NO	0	7	//ct///	1					
							8	CI	Gravelly I	Gravelly Lean Clay (CL) Dark Yellowish Brown (10YR 4/6), stiff, moist, 35% classilt, 40% fine gravel. Gravels are deeply weathered sandstone and chert				
		48	48	G	NO	0	 9		Silty Sand (SM), Yellowish Brown (10YR 5/6), soft, moist, 40% silt, 60% fine s					
£	8		_				10	SM	mica, iror	i sianieu				
G = <50	W				NO	0	11	24		Sandy Silt (ML), Dark Yellowish Brown (10YR $4/4$), soft, moist, plastic, 10% clay, 50% silt, 40% fine sand				
D = 290		48	48	G	NO NO	0	12							
		40	40	-	NO	0	13	ML	3					
					No		14		Gravelly 1	Gravelly Lean Clay with Sand (CL), Light Olive Brown (2.5Y 5/4), stiff, moist to wet,				
					NO	0	15					ndstone gravel, trace of chert		
		48	40	F-G			16	Ct						
							17							
					NO	0	18							
G = <1.0 D = <1.0	S				NO	0	19 20			nd with Gravel (SC), (Olive Brown (2.5Y 4/3), 1	loose, wet, 15% clay, 70% fine		
		48	48	G			20			Ü				
							21		Clayey Gr	ravel with Sand (GC), and, 60% fine subano	Dark Yellowish Brown ((10YR 4/4), dense, wet, 10% clay, primarily sandstone with lesser		
					NO	0	23		shale and		o	the state of the s		
					NO	0	24	2772				ERED GEO		
							25					8		
	_						26		Sample T	ype	in mg/kg	S S		
	_	-					27		S = Soi W = Wa	l; Soil Sample Results ter; Groundwater San	ın mg/kg nple Results in μg/	ROBERT L. NELSON		
	_						28				/*	CERTIFIED *		
	\vdash		_				29				/	GEOLOGIST		
	-						30					OF CALFORN		
	-		-				31					- 3		
							- 00	1	1					

ATTACHMENT F

Photographs







Site looking east Hand auger S12 showing 4" gas line



Set up on S12

ATTACHMENT G

Waste Disposal

NON-HAZARDOUS WASTE

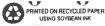
NON-HAZARDOUS WASTE MANIFEST

4 Em 20

CB018 H

Plea	se print or typ	A STATE OF THE STA				
	NON-HAZARDOUS WASTE MANIFEST 1. Generator's US EPA ID N			Manilest Document No.		2. Page 1
Tonal Control	3. Generator's Name and Mailing Address A VE A SSOCIUTUS CIVATU A Generator's Phone (S 10) 452.2941 Pt. Pro	· 0 1				
	231- Ave Association / Clearu	vater Group				
444	DEOX Land CA 94612 1 329 t	ewksbury AVE				0.
1	4. Generator's Phone (5 10) 452.2944 Pt. Pt.	OSHP As bound	Ì			
	5, Transporter 1 Company Name 6.	OS EPA ID Number		A. State Transpor	ter's ID	
line.	Clearwater Group	NIA		B. Transporter 1 I	hone	
	7. Transporter 2 Company Name 8.	US EPA ID Number		C. State Transpor	ter's ID	
	I.			D. Transporter 2 I	Phone	
FIR	Designated Facility Name and Site Address 10.	US EPA ID Number		E. State Facility's	ID	
100	Instrat					
100		A 1 1		F. Facility's Phone	3	
	RIOVISTAICO	NA				Call Jakes
-	11. WASTE DESCRIPTION		12. Cd	intainers	13. Total	14. Unit Wt./Vol.
	**		No.	Туре	Quantity	Wt./Vol.
4	8.					
10	Decon water from soil	D	1 1	Bucket	1-	00)
1	Diese mail ham 2011	porings	1	13000	5	gal
G	b					100
GEZ	5			1 1		-
E						
R	C.					
A			1	1 1		
0	22 V=1/2 V12/1/24 ==					n Staurana
R	d.					
	ec us			F 1		
	ve de la company		1			L
	G. Additional Descriptions for Materials Listed Above			H. Handling Code	s for Wastes Listed Above	
line.						
10						
1						
	As Constitution in the second Additional Information					
4	15. Special Handling Instructions and Additional Information					
300						
			F AND	T AND AND		
	16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shi in proper condition for transport. The materials described on this manifest are in	ipment are fully and accurately described	and are in	all respects	A America America A	
200	in proper condition for transport, The materials described on this manifest are	not subject to federal hazardous waste re	agulations.			10.90
1						Date
1	Printed/Typed Name	Signaturo . /			Month	Day Year
	Early Larvage for				11	138 11
T	17. Transporter 1 Acknowledgement of Recoipt of Materials	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				Date
-EAZWPOEHER	Printer/Typed Name	Signatūro - /			Month	Day Year
N S	Pork Lervoga	O C			1.1	128 11
P	18. Transporter 2 Acknowledgement of Receipt of Materials					Date
P	Printed/Typed Name	Signature	4	Cierra	Month	Day Year
E	(mercott Silvant	I was toll	().	1	1	18 11
-	19. Discrepancy Indication Space		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
FA						
Ĉ						
Ti	20. Facility Owner or Operator; Certification of receipt of the waste materials cover	red by this manlfest, except as noted in it	tem 19_			
빌	INSTRAT INC					Date
H	Printed/Typed Name	Signature	1		Month	Day Year
Ý	MICHNEZ WHITEHEAD	16	1 6	1:1	/	118115







Acceval 2/9, CB018H

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC. 1945 CONCOURSE DRIVE, SAN JOSE, CA 95131 PHONE: 408,433,1990 FAX: 408,433,9521

CERTIFICATE OF DISPOSAL

Generator Name:

John Protopappas

Address:

P.O. Box 687

Oakland, CA 94604

Contact:

John Protopappas

Phone:

510-452-2944

Facility Name:

P&D 23rd Avenue Associates

Address:

1125 Miller Avenue

Oakland, CA

Facility Contact:

Aysha Massell, Clearwater Group

Phone:

510-307-9943

IWM Job #:	99913-PS
Description of Waste:	2 Pail(s) of
	Non-Hazardous
	Soil
Removal Date:	1/27/12
Ticket #:	RSVRL270112

Transporter	Inform	ation
LIMISDOLLCE	111101111	auon

Name:

Address:

IWM, Inc. 1945 Concourse Drive

San Jose, CA 95131

Phone:

(408) 433-1990

Disposal Facility Information

Name:

Republic Services Vasco Road Landfill

Address:

4001 N. Vasco Road

Livermore, CA 94550

Phone:

(925) 447-0491

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

William T. DeLon

Willian 2. Ox For

1/27/12

Date

IWM, Inc.

INTEGRATED WASTESTREAM MANAGEMENT, INC. 1945 CONCOURSE DRIVE, SAN JOSE, CA 95131 PHONE: 408.433.1990 FAX: 408.433.9521 A-5077 H

CERTIFICATE OF DISPOSAL

Generator Name:	Mitchell Enterprise Inc	Facility Name:	State Plumbing and Heating Supplies	
Address:	1000 American Street	Address:	1000 American Street	
Address.	San Carlos, CA 94070	_	San Carlos, CA	
Contact:	Earl Mitchell	Facility Contact:	Aysha Massell, Clearwater Group	
Phone:	650-593-3183	Phone:	510-307-9943	

 IWM Job #:
 99914-PS

 Description of Waste:
 1 Pail(s) of

 Non-Hazardous
 Soil

 Removal Date:
 1/27/12

 Ticket #:
 RSVRL270112

Transporter Information		Dispos	Disposal Facility Information			
Name:	IWM, Inc. 1945 Concourse Drive San Jose, CA 95131	Name: Address:	Republic Services Vasco Road Landfill 4001 N. Vasco Road			
Address:		_	Livermore, CA 94550			
Phone:	(408) 433-1990	Phone:	(925) 447-0491			

IWM, INC. CERTIFIES THAT THE ABOVE LISTED NON-HAZARDOUS WASTE WILL BE TREATED AND DISPOSED AT THE DESIGNATED FACILITY IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.

2 Octor	1 (E)
William T. DeLon William 2.	1/27/12
Authorized Representative (Print Name and Signature)	Date
Authorized Representative (Time Plante and Diguntary)	

ATTACHMENT H

Laboratory Analytical Reports



Report Number: 79647

Date: 12/08/2011

Laboratory Results

Erik Lervaag The Auger Group 229 Tewksbury Avenue Point Richmond, CA 94801

Subject: 3 Water Samples

Project Name: 23rd Avenue Associates

Project Number: CB018H

Dear Mr. Lervaag,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Report Number: 79647

Date: 12/08/2011

Project Name: 23rd Avenue Associates

Project Number: CB018H

Sample: S-12 Matrix: Water Lab Number: 79647-01

Sample Date :11/28/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed		
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/06/11 22:44		
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/06/11 22:44		
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/06/11 22:44		
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/06/11 22:44		
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/06/11 22:44		
1,2-Dichloroethane-d4 (Surr)	99.1		% Recovery	EPA 8260B	12/06/11 22:44		
Toluene - d8 (Surr)	98.6		% Recovery	EPA 8260B	12/06/11 22:44		
TPH as Diesel (Note: Discrete peaks, higher boiling hydrocarbons present, atypical for Diesel Fuel.) 12/07/11 11:06							
Octacosane (Diesel Surrogate)	121		% Recovery	M EPA 8015	12/07/11 11:06		



Report Number: 79647

Date: 12/08/2011

Project Name: 23rd Avenue Associates

Project Number: CB018H

Sample: S-13 Matrix: Water Lab Number: 79647-02

Sample Date :11/28/2011

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/11 00:34
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/07/11 00:34
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/11 00:34
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/07/11 00:34
TPH as Gasoline	200	50	ug/L	EPA 8260B	12/07/11 00:34
1,2-Dichloroethane-d4 (Surr)	100		% Recovery	EPA 8260B	12/07/11 00:34
Toluene - d8 (Surr)	98.7		% Recovery	EPA 8260B	12/07/11 00:34
TPH as Diesel	36000	50	ug/L	M EPA 8015	12/07/11 11:35
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	12/07/11 11:35



Date: 12/08/2011

Project Name: 23rd Avenue Associates

Project Number: CB018H

Sample : **S-14** Matrix : Water Lab Number: 79647-03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/11 01:10
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/07/11 01:10
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/07/11 01:10
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/07/11 01:10
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/07/11 01:10
1,2-Dichloroethane-d4 (Surr)	98.0		% Recovery	EPA 8260B	12/07/11 01:10
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	12/07/11 01:10
TPH as Diesel (Note: Discrete peaks, higher boiling hydr	290 ocarbons prese	50 nt, atypical fo	ug/L or Diesel Fuel.)	M EPA 8015	12/07/11 12:04
Octacosane (Diesel Surrogate)	99.7		% Recovery	M EPA 8015	12/07/11 12:04

Date: 12/08/2011

QC Report : Method Blank Data

Project Name: 23rd Avenue Associates

Project Number : **CB018H**

	Measured	Method Reporting	q	Analysis	Date
Parameter	Value	Limit	Units	Method	Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	12/05/2011
Octacosane (Diesel Surrogate)	91.8		%	M EPA 8015	12/05/2011
Benzene	< 0.50	0.50	ug/L	EPA 8260B	12/06/2011
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	12/06/2011
Toluene	< 0.50	0.50	ug/L	EPA 8260B	12/06/2011
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	12/06/2011
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	12/06/2011
1,2-Dichloroethane-d4 (Surr)	99.2		%	EPA 8260B	12/06/2011
Toluene - d8 (Surr)	98.3		%	EPA 8260B	12/06/2011

		Method			
	Measured	Reportir	ng	Analysis	Date
Parameter	Value	Limit	Units	Method	Analyzed

Date: 12/08/2011

Project Name: 23rd Avenue Associates

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Number: CB018H

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value	e ed Units	Analysis Method	Date Analyzed	Percent	Duplicat Spiked Sample Percent Recov.	Relative	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene														
	79647-01	<0.50	39.9	39.9	41.3	41.2	ug/L	EPA 8260B	12/6/11	103	103	0.0963	80-120	25
Ethylbenzene P + M Xylene	79647-01	<0.50	39.9	39.9	42.8	42.9	ug/L	EPA 8260B	12/6/11	107	107	0.145	80-120	25
Toluene	79647-01	<0.50	39.9	39.9	40.8	41.3	ug/L	EPA 8260B	12/6/11	102	103	1.01	76.8-120	25
Toluche	79647-01	<0.50	39.9	39.9	40.9	40.8	ug/L	EPA 8260B	12/6/11	102	102	0.295	80-120	25
TPH as Diesel														
	BLANK	<50	1000	1000	928	952	ug/L	M EPA 8015	12/5/11	92.8	95.2	2.49	70-130	25

Date: 12/08/2011

Project Name: 23rd Avenue Associates

QC Report : Laboratory Control Sample (LCS)

Project Number: CB018H

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	12/6/11	104	80-120
Ethylbenzene	40.0	ug/L	EPA 8260B	12/6/11	108	80-120
P + M Xylene	40.0	ug/L	EPA 8260B	12/6/11	104	76.8-120
Toluene	40.0	ug/L	EPA 8260B	12/6/11	103	80-120



2795 2nd Street, Suite 300

Davis, CA 95618 Lab: 530.297.4800 Fax: 530.297.4802

SRG#/Lab No. 79647

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Project Contact (Hard	copy or PDF	To):			forn	ia ED	F Repo	ort?		1	Yes		No)					С	hai	n-of-	Cus	tody	Re	cord	d an	d A	nalys	sis I	 Rea	uest		
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SAMPLE RECEIPT CHECKLIST

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Initials

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COC Inspection Is COC present? Custody seals on shipping Is COC Signed by Relinq Is sampler name egicay i Is analysis or hold reques Is the turnaround time inclis COC free of whiteout a	uisher? ndicated of ted for all licated on	Yes n COC? samples COC?	□ No uts?	Dated?	Yes ☐ Intact X Yes X Yes X Yes X Yes X Yes X Yes X Yes	☐ No ☐ No ☐ No ☐ No	t present MN/A □ No, Cross-outs
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Date: 01/13/2012

Laboratory Results

Rob Nelson Clearwater Group, Inc. 229 Tewksbury Avenue Point Richmond, CA 94801

Subject: 6 Soil Samples

Project Name: 23rd Ave Associates

Project Number: CB018H

Dear Mr. Nelson,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed. Testing procedures comply with the 2003 NELAC standard. All soil samples are reported on a total weight (wet weight) basis unless noted otherwise in the case narrative. Laboratory results relate only to the samples tested. This report may be freely reproduced in full, but may only be reproduced in part with the express permission of Kiff Analytical, LLC. Kiff Analytical, LLC is certified by the State of California under the National Environmental Laboratory Accreditation Program (NELAP), lab # 08263CA. If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Date: 01/13/2012

Subject: 6 Soil Samples
Project Name: 23rd Ave Associates

Project Number: CB018H

Case Narrative

A version of this report was previously issued on 12/08/11. This revised version replaces that report.



Date: 01/13/2012

Project Name: 23rd Ave Associates

Project Number: CB018H

Sample: **B12-18** Matrix: Soil Lab Number: 79648-01

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 22:34
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 22:34
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 22:34
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 22:34
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/03/11 22:34
1,2-Dichloroethane-d4 (Surr)	102		% Recovery	EPA 8260B	12/03/11 22:34
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	12/03/11 22:34
TPH as Diesel (Note: Discrete peaks in Diesel range, aty	8.6 pical for Diesel I	1.0 Fuel.)	mg/Kg	M EPA 8015	12/07/11 19:34
Octacosane (Diesel Surrogate)	97.0		% Recovery	M EPA 8015	12/07/11 19:34



Date: 01/13/2012

Project Name: 23rd Ave Associates

Project Number: CB018H

Sample: **B14-19** Matrix: Soil Lab Number: 79648-02

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 21:25
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 21:25
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 21:25
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 21:25
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/03/11 21:25
1,2-Dichloroethane-d4 (Surr)	106		% Recovery	EPA 8260B	12/03/11 21:25
Toluene - d8 (Surr)	99.9		% Recovery	EPA 8260B	12/03/11 21:25
TPH as Diesel (Note: Discrete peaks in Diesel range, aty	1.0 pical for Diesel	1.0 Fuel.)	mg/Kg	M EPA 8015	12/07/11 17:36
Octacosane (Diesel Surrogate)	85.3		% Recovery	M EPA 8015	12/07/11 17:36



Date: 01/13/2012

Project Name: 23rd Ave Associates

Project Number: CB018H

Sample: **B13-11** Matrix: Soil Lab Number: 79648-03

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/08/11 04:53
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/08/11 04:53
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/08/11 04:53
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/08/11 04:53
TPH as Gasoline	7.0	1.0	mg/Kg	EPA 8260B	12/08/11 04:53
1,2-Dichloroethane-d4 (Surr)	98.3		% Recovery	EPA 8260B	12/08/11 04:53
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	12/08/11 04:53
TPH as Diesel	740	2.0	mg/Kg	M EPA 8015	12/08/11 11:53
Octacosane (Diesel Surrogate)	95.6		% Recovery	M EPA 8015	12/08/11 11:53



Date: 01/13/2012

Project Name: 23rd Ave Associates

Project Number: CB018H

Sample: **B13-14** Matrix: Soil Lab Number: 79648-04

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Lead	4.9	0.50	mg/Kg	EPA 6010B	01/13/12 15:35
Benzene	< 0.025	0.025	mg/Kg	EPA 8260B	12/06/11 12:02
Toluene	< 0.025	0.025	mg/Kg	EPA 8260B	12/06/11 12:02
Ethylbenzene	< 0.025	0.025	mg/Kg	EPA 8260B	12/06/11 12:02
Total Xylenes	< 0.025	0.025	mg/Kg	EPA 8260B	12/06/11 12:02
TPH as Gasoline	65	2.5	mg/Kg	EPA 8260B	12/06/11 12:02
1,2-Dichloroethane-d4 (Surr)	101		% Recovery	EPA 8260B	12/06/11 12:02
Toluene - d8 (Surr)	99.3		% Recovery	EPA 8260B	12/06/11 12:02
2-Bromochlorobenzene (Surr)	86.8		% Recovery	EPA 8260B	12/06/11 12:02
TPH as Diesel	1900	5.0	mg/Kg	M EPA 8015	12/08/11 12:22
Octacosane (Diesel Surrogate)	93.8		% Recovery	M EPA 8015	12/08/11 12:22



Date: 01/13/2012

Project Name: 23rd Ave Associates

Project Number: CB018H

Sample: **B13-19** Matrix: Soil Lab Number: 79648-05

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 23:08
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 23:08
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 23:08
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 23:08
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/03/11 23:08
1,2-Dichloroethane-d4 (Surr)	103		% Recovery	EPA 8260B	12/03/11 23:08
Toluene - d8 (Surr)	99.4		% Recovery	EPA 8260B	12/03/11 23:08
TPH as Diesel (Note: Discrete peaks in Diesel range, aty	4.4 pical for Diesel	1.0 Fuel.)	mg/Kg	M EPA 8015	12/07/11 16:09
Octacosane (Diesel Surrogate)	86.0		% Recovery	M EPA 8015	12/07/11 16:09



Date: 01/13/2012

Project Name: 23rd Ave Associates

Project Number: CB018H

Sample : **B13-23.5** Matrix : Soil Lab Number : 79648-06

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 22:00
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 22:00
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 22:00
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/03/11 22:00
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/03/11 22:00
1,2-Dichloroethane-d4 (Surr)	105		% Recovery	EPA 8260B	12/03/11 22:00
Toluene - d8 (Surr)	99.2		% Recovery	EPA 8260B	12/03/11 22:00
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	12/08/11 10:25
Octacosane (Diesel Surrogate)	89.3		% Recovery	M EPA 8015	12/08/11 10:25

Date: 01/13/2012

QC Report : Method Blank Data

Project Name: 23rd Ave Associates

Project Number : **CB018H**

<u>Parameter</u>	Measured Value	Method Reporting Limit	g <u>Units</u>	Analysis Method	Date Analyzed
Lead	< 0.50	0.50	mg/Kg	EPA 6010B	01/13/2012
TPH as Diesel	< 1.0	1.0	mg/Kg	M EPA 8015	12/07/2011
Octacosane (Diesel Surrogate)	78.7		%	M EPA 8015	12/07/2011
Benzene Ethylbenzene Toluene Total Xylenes TPH as Gasoline 1,2-Dichloroethane-d4 (Surr) Toluene - d8 (Surr)	< 0.0050 < 0.0050 < 0.0050 < 0.0050 < 1.0 103 98.1	0.0050 0.0050 0.0050 0.0050 1.0	mg/Kg mg/Kg mg/Kg mg/Kg mg/Kg	EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B EPA 8260B	12/03/2011 12/03/2011 12/03/2011 12/03/2011 12/03/2011 12/03/2011 12/03/2011
Benzene Ethylbenzene Toluene Total Xylenes	< 0.0050 < 0.0050 < 0.0050 < 0.0050	0.0050 0.0050 0.0050 0.0050	mg/Kg mg/Kg mg/Kg mg/Kg	EPA 8260B EPA 8260B EPA 8260B EPA 8260B	12/03/2011 12/03/2011 12/03/2011 12/03/2011
TPH as Gasoline 1,2-Dichloroethane-d4 (Surr) Toluene - d8 (Surr)	< 1.0 106 99.8	1.0	mg/Kg % %	EPA 8260B EPA 8260B EPA 8260B	12/03/2011 12/03/2011 12/03/2011

	Manager	Method		A	Data
Parameter	Measured Value	Reportii Limit	ng <u>Units</u>	Analysis Method	Date <u>Analyzed</u>
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/07/2011
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/07/2011
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/07/2011
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	12/07/2011
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	12/07/2011
1,2-Dichloroethane-d4 (Surr)	102		%	EPA 8260B	12/07/2011
Toluene - d8 (Surr)	97.6		%	EPA 8260B	12/07/2011

Date: 01/13/2012

Project Name: 23rd Ave Associates

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Number: CB018H

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spike Sample Value	e ed Units	Analysis Method	Date Analyzed	Percent	Duplicat Spiked Sample Percent Recov.	Relative	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
	Sample	value	LEVEI	LEVEI	value	value	Ullits	Metriod	Allalyzeu	Necov.	Recov.	DIII.	LIIIII	LIIIIII
TPH as Diesel	79690-21	3.4	19.5	19.5	16.8	17.5	ma/Ka	M EPA 8015	12/7/11	69.0	72.5	4.91	60-140	25
	73030-21	0.4	10.0	10.0	10.0	17.5	mg/rtg	WEINOUS	12/1/11	05.0	72.0	4.51	00-140	20
Benzene														
F.,	79636-01	<0.0050	0.0400	0.0397	0.0396	0.0395	mg/Kg	EPA 8260B	12/3/11	99.1	99.6	0.510	67.9-120	25
Ethylbenzene	79636-01	<0.0050	0.0400	0.0397	0.0404	0.0397	ma/Ka	EPA 8260B	12/3/11	101	100	0.951	65.5-127	25
P + M Xylene	79030-01	<0.0050	0.0400	0.0597	0.0404	0.0391	mg/rtg	LI A 0200B	12/3/11	101	100	0.931	03.3-127	25
	79636-01	<0.0050	0.0400	0.0397	0.0377	0.0376	mg/Kg	EPA 8260B	12/3/11	94.3	94.7	0.425	62.5-124	25
Toluene	= 0000 04	0.00=0	0.0400			0.00=0			10/0/11	0.1 =		4.00	0== 400	
	79636-01	<0.0050	0.0400	0.0397	0.0366	0.0370	mg/Kg	EPA 8260B	12/3/11	91.5	93.2	1.90	65.7-120	25
Benzene														
	79671-01	<0.0050	0.0369	0.0369	0.0364	0.0374	mg/Kg	EPA 8260B	12/3/11	98.6	101	2.85	67.9-120	25
Ethylbenzene														
P + M Xylene	79671-01	<0.0050	0.0369	0.0369	0.0362	0.0372	mg/Kg	EPA 8260B	12/3/11	98.2	101	2.78	65.5-127	25
1 · Wi Aylene	79671-01	<0.0050	0.0369	0.0369	0.0364	0.0378	ma/Ka	EPA 8260B	12/3/11	98.7	102	3.59	62.5-124	25
Toluene		31333 3							· · ·				· - ·	-
	79671-01	<0.0050	0.0369	0.0369	0.0361	0.0370	mg/Kg	EPA 8260B	12/3/11	97.8	100	2.53	65.7-120	25

Date: 01/13/2012

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name: 23rd Ave Associates

Project Number : CB018H

Dorometer	Spiked	Sample Value	Spike	Spike Dup.	Spiked Sample Value	Duplicate Spike Sample	ed	Analysis	Date	Percent	Percent	Relative	Recov.	Relative Percent Diff.
Parameter	Sample	value	Lével	Level	value	Value	Units	Method	Analyzed	Recov.	Recov.	וווט.	Limit	Limit
Benzene														
Ethylbenzene	79713-01	<0.0050	0.0386	0.0375	0.0379	0.0366	mg/Kg	EPA 8260B	12/7/11	98.1	97.4	0.653	67.9-120	25
P + M Xylene	79713-01	<0.0050	0.0386	0.0375	0.0393	0.0384	mg/Kg	EPA 8260B	12/7/11	102	102	0.424	65.5-127	25
Toluene	79713-01	0.0059	0.0386	0.0375	0.0418	0.0413	mg/Kg	EPA 8260B	12/7/11	92.9	94.3	1.50	62.5-124	25
	79713-01	<0.0050	0.0386	0.0375	0.0370	0.0362	mg/Kg	EPA 8260B	12/7/11	95.9	96.3	0.487	65.7-120	25
Lead														
	79987-02	4.8	50.0	50.0	48.3	48.0	mg/Kg	EPA 6010B	1/13/12	86.9	86.4	0.529	75-125	20

QC Report : Laboratory Control Sample (LCS)

Project Name : 23rd Ave Associates

Project Number: CB018H

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Lead	50.0	mg/Kg	EPA 6010B	1/13/12	99.6	85-115
TPH as Diesel	20.0	mg/Kg	M EPA 8015	12/7/11	87.3	70-130
Benzene	0.0395	mg/Kg	EPA 8260B	12/3/11	97.4	67.9-120
Ethylbenzene	0.0395	mg/Kg	EPA 8260B	12/3/11	103	65.5-127
P + M Xylene	0.0395	mg/Kg	EPA 8260B	12/3/11	97.5	62.5-124
Toluene	0.0395	mg/Kg	EPA 8260B	12/3/11	96.9	65.7-120
Danzana	0.0000	a. // a.	EDA 0000D	40/0/44	405	07.0.400
Benzene	0.0389	mg/Kg	EPA 8260B	12/3/11	105	67.9-120
Ethylbenzene	0.0389	mg/Kg	EPA 8260B	12/3/11	105	65.5-127
P + M Xylene	0.0389	mg/Kg	EPA 8260B	12/3/11	105	62.5-124
Toluene	0.0389	mg/Kg	EPA 8260B	12/3/11	105	65.7-120
Ponzono	0.0385	ma/Ka	EPA 8260B	12/7/11	104	67.9-120
Benzene		mg/Kg				
Ethylbenzene	0.0385	mg/Kg	EPA 8260B	12/7/11	108	65.5-127
P + M Xylene	0.0385	mg/Kg	EPA 8260B	12/7/11	103	62.5-124
Toluene	0.0385	mg/Kg	EPA 8260B	12/7/11	103	65.7-120

KIF	F	
Analytical	LLC	

2795 2nd Street, Suite 300 Davis, CA 95618

Lab: 530.297.4800

SRG # / Lab No.

79648

Page

of 1

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Project Contact (Hardcopy or PDI	F To):			Cali	iforn	ia ED	F Repo	ort?		7	Yes	□ No Chain-of-Custody Record and Analysis Reques							st																	
Company / Address: Clearwater (Group			San	nplir	ng Cor	npany	Log	Code	e:					T									Ana	lys	is R	equ	ıest							TAT	
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Project #: CBOIBH Project Name: 23 M Ave Cosocia Project Address: 23 Ave Oa Kland					Clearwater Group Sampler Signature:							┨;	$\widehat{\mathbb{G}}$			Ë, 1	EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)		Ξ	CAM 17 Metals (EPA 200.7 / 6010)	5 Waste Oil Metals (Cd,Cr,Ni,Pb,Zn) (EPA	Mercury (EPA 245.1 / 7470 / 7471)	6			İ		48hr	For Lab Use Only			
Froject Name.					Robert Nobsen							8260B)			ETBE,	필	,2 E	A 8.	<u>=</u>	24.2	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	0.7 /	,Pb,	/ 0/	Total Lead (EPA 200.7 / 6010)						o' L				
23rd Ave Closoci	at 04			<u> </u>				<u> 1</u> 2				7	14-4		4	٨		$\widehat{\mathbf{a}}$	₫	H	8	<u>m</u>	Eis	7 × 5	801	۸ 8	۱ 20	Z,	/ 74	1.7.					 72hr	ഥ
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SAMPLE RECEIPT CHECKLIST

RECEIVER
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Initials

	SKG#:	7 10	190		Date: _	17011	_
	Project ID:	23rd	Ave	ASSOC	ates		
	Method of Re	ceipt: 🔯	Courier	•	he-counter	Shipper	
COC Inspection Is COC present? Custody seals on shall sear upler name legals analysis or hold a list the turnaround tills COC free of while	Relinquisher? giely indicated or requested for all me indicated on	Yes on COC? samples COC?	□ No ts?	Dated?	Yes ☐ Intact Yes X Yes X Yes X Yes X Yes X Yes X Yes X Yes	☐ No ☐ No ☐ No ☐ No	Not present ☑N/A ut ☐ No, Cross-outs
Sample Inspection Coolant Present: Temperature °C Sample and Sample cordinary mate Are there custody sample cordinary sample cordinary sample cordinary preservatives in Are preservatives of Are samples within Are the correct sample sufficient	Therm reals on sample with COC? That airces other that airces other that airces broken, and cated? The containers to perform the containers to perform the contain product, I Contain Contain Contain	n. ID# FR containers? Yes No nan soil, water leaking or dan Yes, on sa ses requested? or analyses requested for the an m testing? have strong och er type er type er type	No, CC, air or carbo maged? ample contain quested? alyses requented.	DC lists abon? iners ested? erwise su # of con # of con # of con	☐ Intact sent sample(s) ☐ Yes ☐ Yes ☐ Yes, on CC ☐ Yes ☑ Yes ☑ Yes ☑ Yes ☑ Yes ☑ Yes ☑ Yes	No No No No No No No No No Yes d d d	⊠N/A
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ATTACHMENT I

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Facility Name: 23RD AVENUE PARTNERS

File Name: EDF_23rdAvenueAssociates_79647.ZIP

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Facility Name: 23RD AVENUE PARTNERS

File Name: EDF_23rdAveAssociates_79648.ZIP

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Report Type: Soil and Water Investigation Workplan

 Report Date:
 1/24/2011

 Facility Global ID:
 T0600177455

Facility Name: 23RD AVENUE PARTNERS

File Name: CB018H - Revised Workplan 1.24.2011.pdf

Organization Name: Clearwater Group
Username: CLEARWATERGROUP

<u>IP Address:</u> 209.76.203.27

<u>Submittal Date/Time:</u> 1/26/2011 11:16:34 AM

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