MADISON PARK
FINANCIAL CORPORATION

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August 1, 2013

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: Second Quarter 2013 – Groundwater Monitoring Report
P&D 23rd Avenue Associates
1125 Miller Avenue, Oakland, CA
Clearwater Project No. CB018R
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, Inc. 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 Protopappas
President/CEO

CLEARWATER
GROUP
Environmental Services

July 31, 2013

Mr. Jerry Wickham, P.G.
Senior Hazardous Materials Specialist
Alameda County
Health Care Services Agency
Environmental Health Services
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Re: Second Quarter 2013 – Groundwater Monitoring Report
P&D 23rd Avenue Associates LLC
(Formerly 23rd Avenue Partners)
1125 Miller Avenue
Oakland, California
Geotracker Global ID # T0600177455
Clearwater Group Project Number CB018R

Dear Mr. Wickham,

This report, prepared by Clearwater Group (Clearwater) on behalf of P&D 23rd Avenue Associates LLC, summarizes the results of quarterly groundwater-monitoring activities conducted during the second quarter 2013, at 1125 Miller Avenue in Oakland, Alameda County, California (*site*) [**Figures 1** and **2**]. This report responds to items #2 and #4 from the last directive from your office (dated March 26, 2013), which is included in **Attachment A**.

A summary (which is periodically updated) of historic investigation work, remediation completed at the *site*, and details regarding groundwater-monitoring activities is included as **Attachment A**; a reference list is included at the end of the summary text. Well construction details for groundwater-monitoring wells MW-1 through MW-3 are included in **Table 1**. Field activities were performed in general accordance with Clearwater's field protocols, included as **Attachment B**. Groundwater level and well purging information, recorded on the *Well Inspection and Water Level Gauging Form* and *Groundwater Sampling Forms: Low-Flow, Low-Stress Method*, is included as **Attachment C**.

GROUNDWATER MONITORING

Groundwater Monitoring Activities

On June 26, 2013, three groundwater-monitoring wells (MW-1 through MW-3) were gauged, and groundwater samples were collected for analysis from all three wells.

Laboratory Analyses

Groundwater samples were analyzed by Kiff Analytical, LLC (Kiff), a State of California Department of Health Services-certified analytical laboratory, located in Davis, California. The samples were analyzed for concentrations of benzene, toluene, ethylbenzene, and xylenes (collectively known as BTEX); methyl tertiary butyl ether (MTBE); total petroleum hydrocarbons as gasoline (TPH-g); and volatile organic compounds including tetrachloroethene and its breakdown products by United States Environmental Protection Agency (EPA) Method 8260B. The samples were also analyzed for total petroleum hydrocarbons as diesel (TPH-d) by EPA Method 8015M. The analytical report for the second quarter 2013 groundwater-monitoring event including chain-of-custody documentation (Kiff Report number 85265) is included in **Attachment D**.

GROUNDWATER MONITORING RESULTS

Groundwater Elevation and Flow

The static depth-to-water measurements recorded in the groundwater-monitoring wells on June 26, 2013, ranged from approximately 9.64 feet below ground surface (MW-1) to 11.71 feet below ground surface (MW-3) [**Table 2**]. Depth-to-water measurements and well elevation data were used to generate a groundwater elevation map (**Figure 3**). During the second quarter 2013 groundwater-monitoring event, the inferred direction of groundwater flow was to the southeast at a gradient of 0.0025. The groundwater flow direction has been plotted in **Figure 4**, Groundwater Flow Rose Diagram. This is the first event.

Groundwater Quality Parameters

During the June 26, 2013, event, the samples were described as clear with no sheen.

Groundwater Sample Analytical Results

The laboratory reported various concentrations of the following contaminants of concern above the laboratory detection limits: benzene, TPH-g, TPH-d, trichloroethene (TCE), and chloroform. Analytical results and data on depth to water and groundwater elevation are presented in **Table 3**. These data span the history of environmental work at the *site*; all grab groundwater data are included in this table as well. **Figure 5** presents the site plan showing reported concentrations of dissolved-phase compounds in the groundwater samples collected on June 26, 2013.

RESULTS

Of the *site* monitoring wells, MW-2 is the only well impacted with contaminants of concern from the fuel tank release. Groundwater samples collected from all of the wells contained low concentrations of trichloroethene.

GEOTRACKER

Clearwater uploaded depth-to-water data spreadsheets known as GEO_WELL and electronic laboratory reports (EDFs) to the State of California GeoTracker website (www.geotracker.swrcb.ca.gov) on July 24, 2013. Confirmations of the submittal of these data

electronically to the website are included (**Attachment E**). This report, upon its completion and certification, will be converted into a PDF file and uploaded to the GeoTracker website per the January 1, 2005, GEO_REPORT requirement.

PROJECT STATUS SUMMARY

Significant activities performed for this *site* during 2013 included:

- Close up of the dispenser island excavation;
- Installation of MW-1, MW-2, and MW-3 during the week of June 10-14, 2013;
- Survey of the three wells on June 20, 2013; and
- The second quarter 2013 groundwater monitoring event on June 26, 2013.

Please note that the well installation, development and survey report will be submitted under separate cover.

RECOMMENDATIONS

USTCF year-end funding in the first week of May, 2013, was not accompanied by sufficient time to permit approved wells in the City of Oakland right-of-way. One outcome of this sequence of events is that the groundwater direction at this site (from one event) has been mapped. Clearwater proposes collecting data from a couple more quarterly events before siting and installing remaining wells MW-4 and MW-5, whose purpose is to establish the downgradient extent of the plume. Clearwater also recommends completing one full hydrologic cycle of quarterly sampling events. The next sampling events are planned for the following months:

- September, 2013
- December, 2013
- March, 2014

CLEARWATER
GROUP
Environmental Services

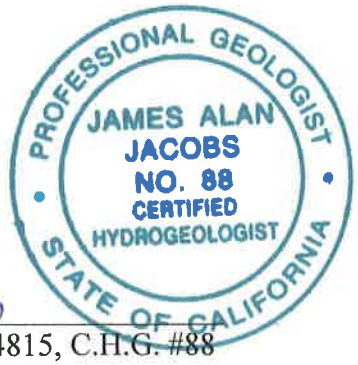
REPORT LIMITATION

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. In the course of normal business, recommendations by the in-house professional may include the use of equipment, services, or products in which the Company has an interest. Therefore, the Company is making full disclosure of potential or perceived conflicts of interest to all parties.

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.

Sincerely,
CLEARWATER GROUP



Gavin P. Fisco
Geologist

James A. Jacobs, P.G. #4815, C.H.G. #88
Chief Hydrogeologist

Olivia Jacobs, C.E.M #1465
Chief Executive Officer

FIGURES

TABLES

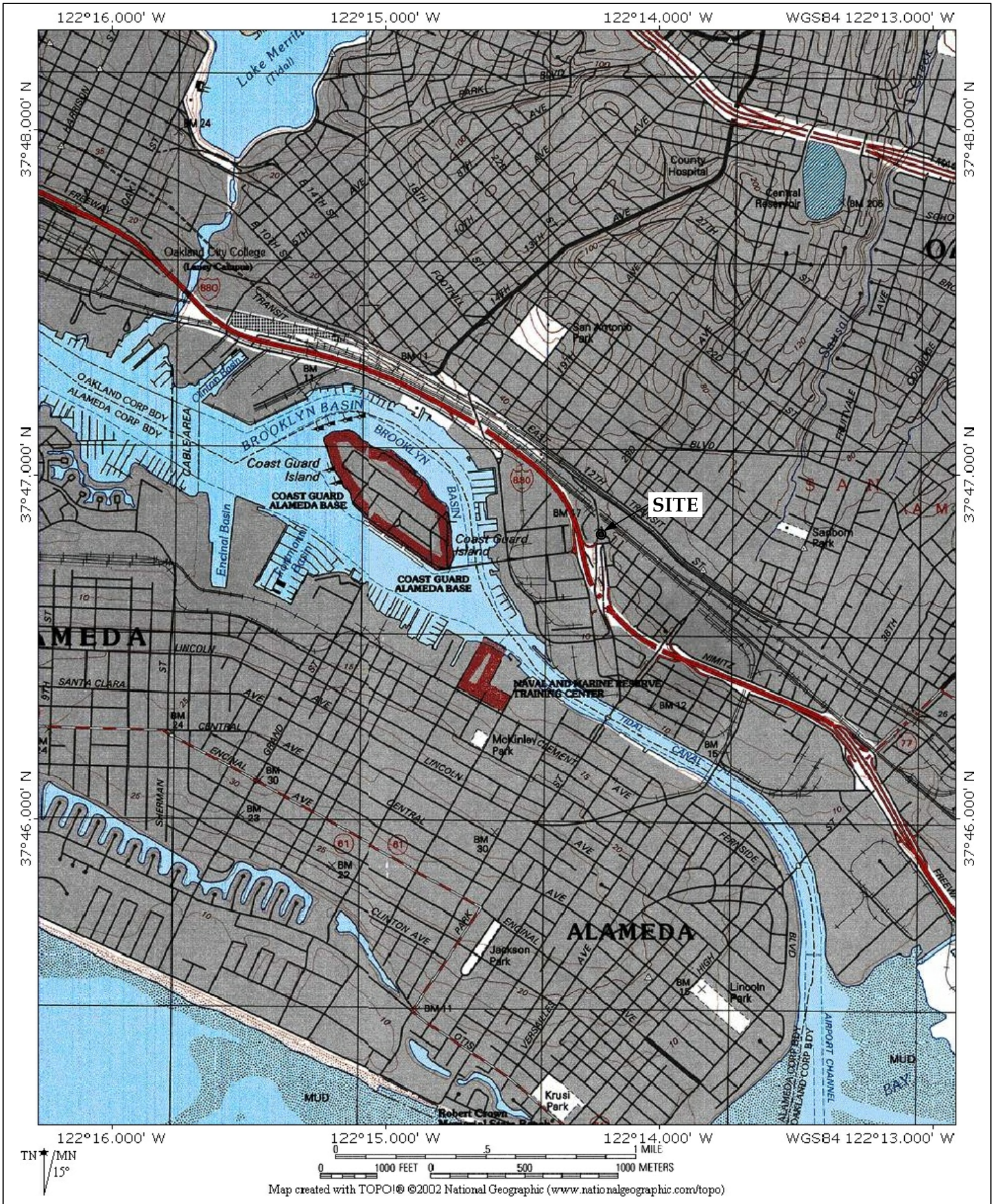
ATTACHMENTS

cc: Mr. John Protopappas
Madison Park Financial
155 Grand Avenue, Suite 1025
Oakland, California 94612

Mr. Leroy Griffin
City of Oakland
Fire Department
250 Frank H. Ogawa Plaza, Suite 3341
Oakland, CA 94612-2032

Alameda County Environmental Health Services
(Sent via electronic upload to the Geotracker website)

FIGURES

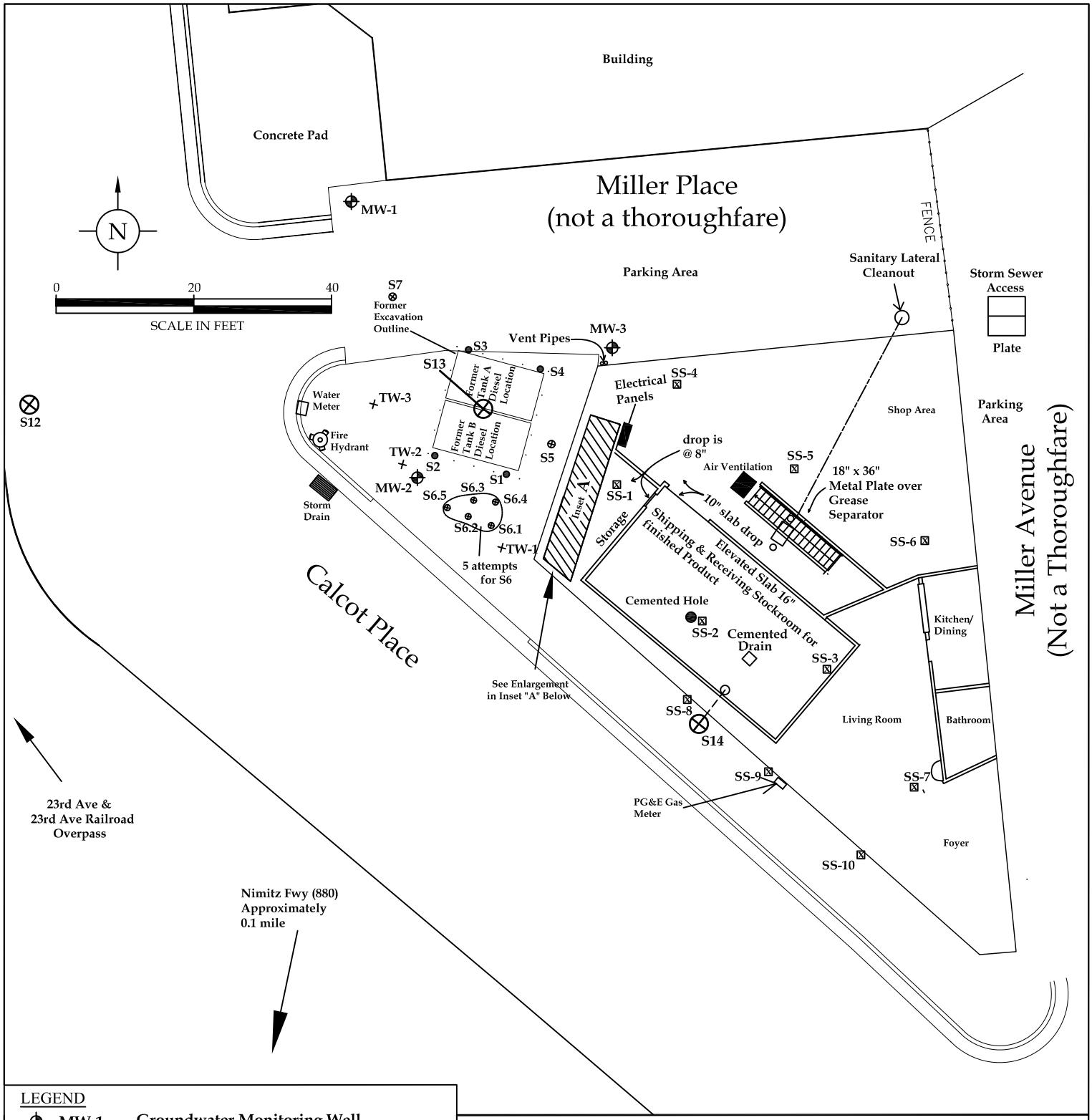


Site Vicinity Map

1125 Miller Avenue
Oakland, California

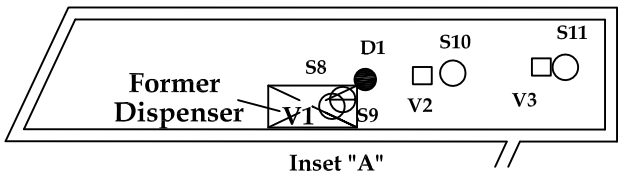
CLEARWATER GROUP

Project No.	Figure Date	Figure
CB018	**05/13**	**1**



LEGEND

MW-1	Groundwater Monitoring Well
S12-S13	Soil Boring Locations (11/28/11)
S14	Slanted Soil Boring Location (11/28/11)
SS-1-SS-10	Sub-slab Vapor Location (06/17/10, 11/04/10) and 11/10/11)
S1-S4	Soil Boring Location (12/2/98)
S5-S8	Soil Boring Location (11/16/05)
D1	Soil Boring Location (10/24/00)
TW-3	Temporary Well (10/24/00)
S9-S11	Soil Boring Location (11/15/06)
V1-V3	Soil Vapor Location (11/15/06)
. . .	Excavation Outline



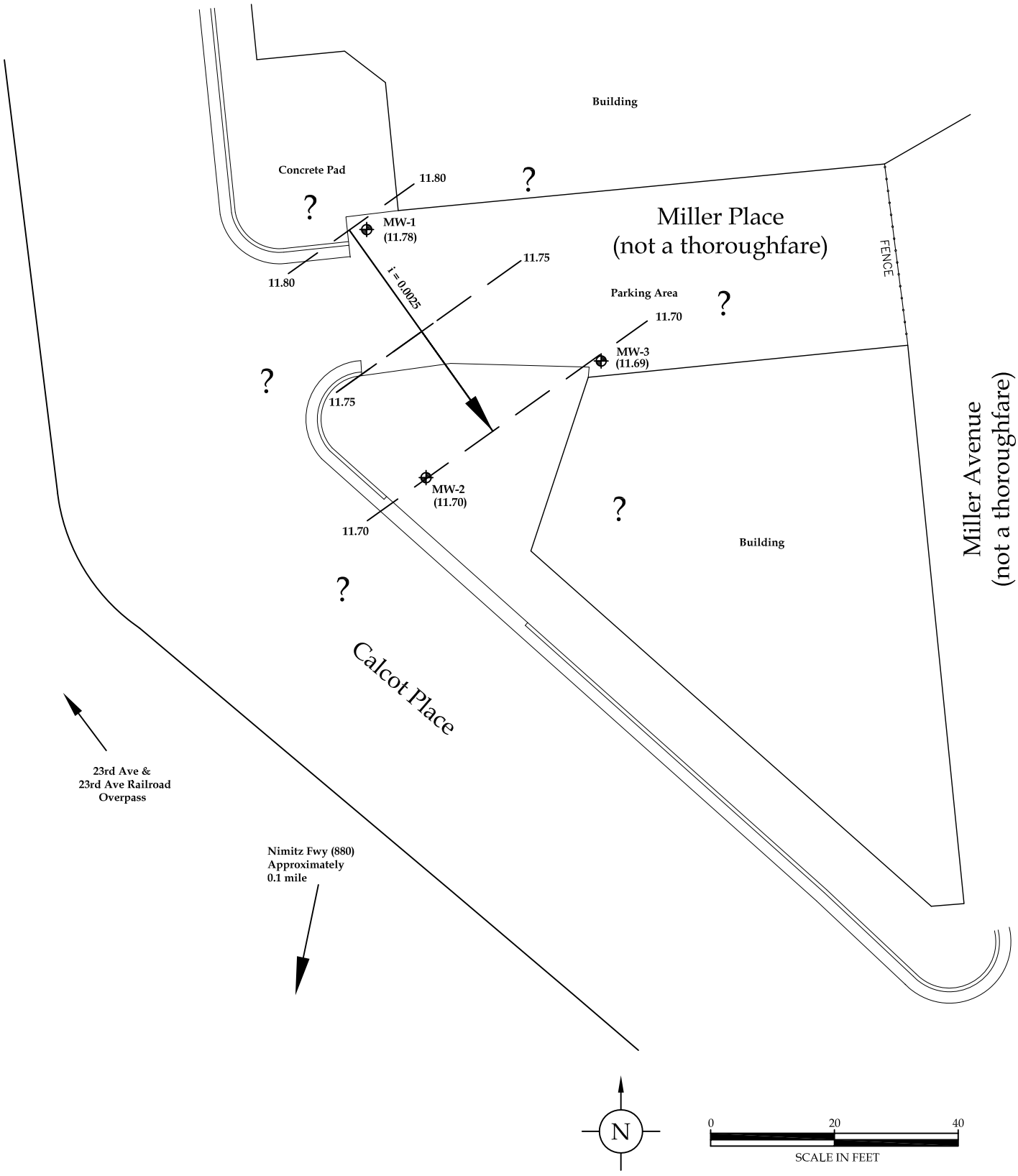
Inset "A"

Site Plan

1125 Miller Avenue
Oakland, California

CLEARWATER GROUP

Project No.	Figure Date	Figure
CB018	07/13	2



LEGEND

MW-1	Groundwater Monitoring Well
(11.78)	Groundwater Elevation in feet above mean sea level
0.003	Approximate Groundwater Flow Direction and Gradient
11.70	Groundwater Elevation Contour in feet above mean sea level

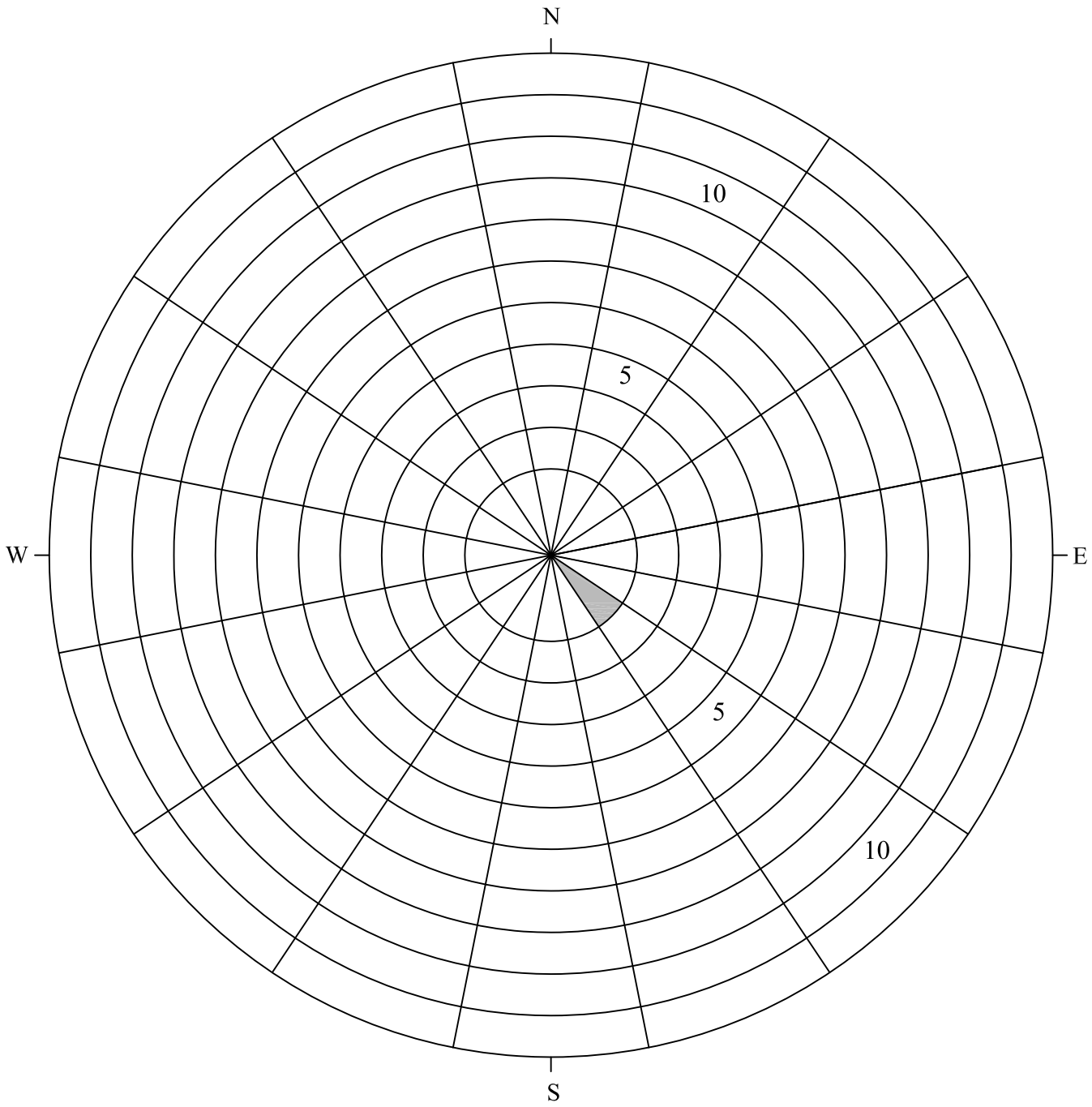
Groundwater Elevation and Contour Map
June 26, 2013

1125 Miller Avenue
Oakland, California

CLEARWATER GROUP

Project No.	Figure Date	Figure
CB018R	**07/13**	**3**

S:\Department\Jobs\CB018 - P&D 23rd Ave. Partners, Oakland\Graphics\CAD\2013\2Q13\CB018R - Fig 3 Groundwater Elevation and Contour Map



Each individual, shaded segment (between adjacent concentric circles) represents one groundwater monitoring event, with groundwater flow in the direction indicated (for example, south, south-southeast, southeast).

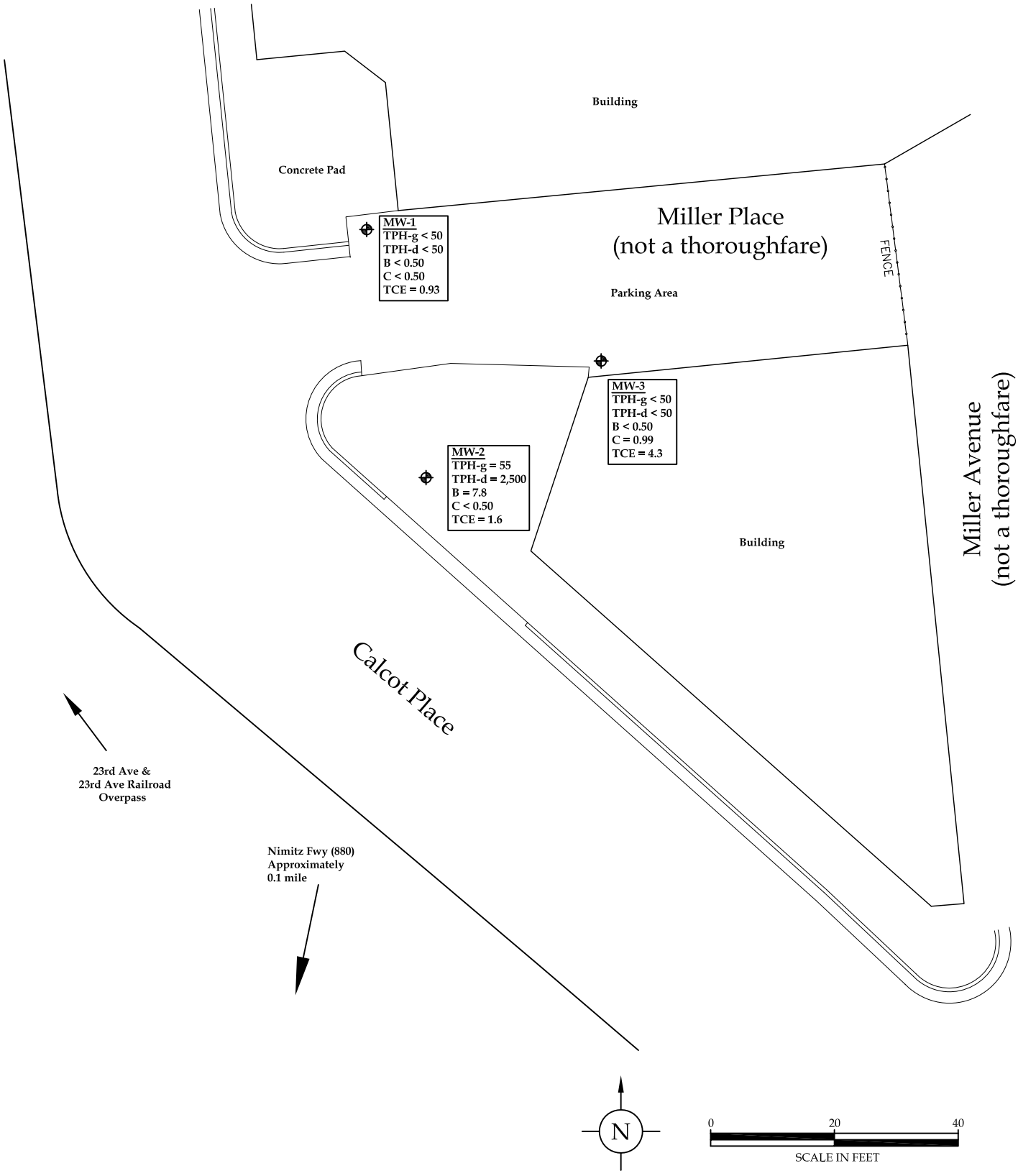
The direction reflects predominant flow direction, incorporating elevation data from all site wells.

Legend

N = North
E = East
S = South
W = West

Groundwater Flow Rose Diagram	**CLEARWATER GROUP**		
1125 Miller Avenue Oakland, California	Project No. **CB018R**	Figure Date **07/13**	Figure **4**

S:\Department\Jobs\CB018 - P&D 23rd Ave. Partners, Oakland\Graphics\CAD\2013\2Q13\CB018R - Fig 4 Groundwater Flow Rose Diagram



LEGEND

MW-1 Groundwater Monitoring Well

MW-1
TPH-g < 50
TPH-d < 50
B < 0.50
C < 0.50
TCE = 0.93

Concentrations of:
Total Petroleum Hydrocarbons as Diesel (TPH-d),
Total Petroleum Hydrocarbons as Gasoline (TPH-g),
Benzene (B),
Chloroform (C), and
Tetrachloroethene (TCE).
All concentrations reported in micrograms per liter (µg/L).

Dissolved-Phase Analytical Concentrations
June 26, 2013

1125 Miller Avenue
Oakland, California

CLEARWATER GROUP

Project No.	Figure Date	Figure
CB018R	**07/13**	**5**

S:\Department\Jobs\CB018 - P&D 23rd Ave. Partners, Oakland\Graphics\CAD\2013\2Q13\CB018R - Fig 5 Dissolved-Phase Analytical Concentrations

TABLES

TABLE 1
Well Construction Data
P & D 23rd Avenue Associates LLC
1125 Miller Avenue
Oakland, California
Clearwater Project No. CB018

Well Number	Date Installed	Borehole Diameter (inches)	Depth of Borehole (feet) *	Casing Diameter (inches)	Screened Interval (feet) *	Filter Pack (feet) *	Bentonite Seal (feet) *	Concrete/ Cement Seal (feet) *	TOC Elevation (feet AMSL)	Latitude Decimal Degrees	Longitude Decimal Degrees
MW-1	06/14/2013	6.0	25.0	2.0	9.0 - 24.0	8.0 - 25.0	7.0 - 8.0	0.0 - 7.0	21.42	37.7807930	-122.2368373
MW-2	06/14/2013	6.0	25.0	2.0	9.0 - 24.0	8.0 - 25.0	7.0 - 8.0	0.0 - 7.0	21.57	37.7806835	-122.2368016
MW-3	06/14/2013	6.0	25.0	2.0	9.0 - 24.0	8.0 - 25.0	7.0 - 8.0	0.0 - 7.0	23.40	37.7807367	-122.2367051

Notes:

TOC Top-of-casing elevation in feet relative to mean sea level

AMSL Above mean sea level

(feet) * Feet below ground surface

Well construction details for MW-1 through MW-3 were obtained from boring logs prepared by Clearwater Group.

Monitoring well elevation and GPS survey event for wells MW-1 through MW-3 was conducted by Morrow Surveying in June 2013.

TABLE 2

Cumulative Groundwater Elevation and Gradient Summary

P & D 23rd Avenue Associates LLC

1125 Miller Avenue

Oakland, California

Clearwater Project No. CB018

Sample Date	MW-1		MW-2		MW-3		Groundwater Gradient and Flow Direction	
	TOC (feet) = 21.42		TOC (feet) = 21.57		TOC (feet) = 23.40			
	DTW (feet)	GWE (feet)	DTW (feet)	GWE (feet)	DTW (feet)	GWE (feet)		
04/26/2013	9.64	11.78	9.87	11.70	11.71	11.69	0.0025	SE

Notes:

TOC	Top-of-casing elevation surveyed by Morrow Surveying on June 20, 2013
DTW	Depth-to-water measurement collected on northern side of the TOC
GWE	Static groundwater elevation (TOC-DTW = GWE)

Table 3
Cumulative Groundwater Elevation and Analytical Results
P & D 23rd Avenue Associates LLC
1125 Miller Avenue
Oakland, California
Clearwater Project No. CB018R

Sample Point Location	Sample ID	Sampling Date	Depth (feet bgs)	TOC (feet)	DTW (feet)	GWE (feet)	TPH-d (µg/L)	TPH-g (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Chloroform (µg/L)	TCE (µg/L)
Environmental Screening Levels in µg/L [E]							100	100	1.0	40	30	20	5.0	70	5.0
Low Threat Closure Thresholds [A, B, C]															
TW2	*TW2*	*10/24/2000*	*16*	-	-	-	*660*	-	*65*	*2.4*	*<0.5*	*3.2*	*<2.5*	-	-
TW3	*TW3*	*10/24/2000*	*17*	-	-	-	*800*	-	*0.9*	*<0.5*	*<0.5*	*<1.5*	*<2.5*	-	-
S5	S5	11/16/2005	17	-	-	-	890	-	<0.50	<0.50	<0.50	<0.50	-	-	-
S12	S-12	11/28/2011	11-15	-	-	-	1,300 [D]	<50	<0.50	<0.50	<0.50	<0.50	-	-	-
S13	S-13	11/28/2011	11-15	-	-	-	36,000	200	<0.50	<0.50	<0.50	<0.50	-	-	-
S14	S-14	11/28/2011	11-15	-	-	-	290 [D]	<50	<0.50	<0.50	<0.50	<0.50	-	-	-
MW-1	MW-1	06/26/2013	-	21.42	9.64	11.78	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.93
MW-2	MW-2	06/26/2013	-	21.57	9.87	11.70	2,500	55	7.8	<0.50	<0.50	<0.50	<0.50	<0.50	1.6
MW-3	MW-3	06/26/2013	-	23.4	11.71	11.69	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50	0.99	4.3

Notes:

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
TCE	Trichloroethene using EPA Method 8260B
Chloroform	Chloroform using EPA Method 8260B
µg/L	Micrograms per liter (approximately equal to parts per billion: ppb)
-	Not analyzed, not available, or not applicable
<###	Not detected in concentrations exceeding the indicated laboratory reporting limit
bgs	Below Ground Surface
TOC	Top-of-casing elevation surveyed by Morrow Surveying on June 20, 2013
DTW	Depth-to-water measurement collected on northern side of the TOC
GWE	Static groundwater elevation (TOC-DTW = GWE)

Footnote A: Criterion for the Low Threat Closure Policy has not been established; please note that the extent of the plume has not been defined.

Footnote B: In order to qualify for Low Threat Closure, a site must meet all of the following General Critera: a. The unauthorized release is located within the service area of a public water system; b. The unauthorized release consists only of petroleum; c. The unauthorized ("primary") release from the UST system has been stopped; d. Free product has been removed to the maximum extent practicable; e. A conceptual site model that assesses the nature, extent, and mobility of the release has been developed; f. Secondary source has been removed to the extent practicable; g. Soil or groundwater has been tested for methyl tert-butyl ether (MTBE) and results reported in accordance with Health and Safety Code section 25296.15; and h. Nuisance as defined by Water Code section 13050 does not exist at the site.

Footnote C: Low Threat Closure, Criterion. The Choice of Groundwater-Specific Criterion depends on the length of the plume or site specific conditions.

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

Footnote E: Environmental Screening Levels (ESL), from 2013 Tier 1 ESLs (screening levels resulting from default setting), available from http://www.waterboards.ca.gov/rwqcb2/water_issues/programs/ESL/Lookup_Tables_Summary_May_2013.pdf

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

ATTACHMENTS

ATTACHMENT A

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
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

March 26, 2013

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: Case File Review 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, *"2000-Foot Radius Well Search Report,"* dated February 21, 2013. The Well Search Report, which was prepared on your behalf by Clearwater Group, presents results from a well search conducted using Alameda County Public Works Agency and California Department of Water Resources databases. The Well Search Report was submitted in response to the technical comments in ACEH correspondence dated December 5, 2012, which is attached for reference. However, ACEH's correspondence requested a Work Plan to address six technical comments. The Well Search Report addresses only one of the six technical comments in ACEH's December 5, 2012 correspondence.

The Well Search Report recommends that the site be considered for low-risk case closure but does not evaluate site conditions against the general and media-specific criteria in the State Water Resources Control Board Low-Threat Closure Policy (LTCP). Due to the presence of volatile organic compounds (VOCs) in soil vapor, the site does not appear to meet general criteria b of the LTCP, which requires that the unauthorized release consists only of petroleum.

The site may be evaluated for case closure under the LTCP in the future if the extent of VOCs is evaluated and the VOCs do not pose a risk to human health or the environment. In order to complete this evaluation, we request that you submit a Work Plan that addresses the technical comments below, most of which were previously requested in our December 5, 2012 correspondence.

TECHNICAL COMMENTS

1. **Volatile Organic Compounds in Sub-slab Soil Vapor**. Review of the *"Update of the Soil Vapor Sample Analytical Report Presented in Sub-Slab Soil Vapor Sampling Report,"* dated October 9, 2012 indicates that tetrachloroethene (PCE) was detected in 3 of 10 sub-slab vapor samples collected on December 9, 2011 at concentrations ranging from 5.7 to 240 micrograms per cubic meter ($\mu g/m^3$). The Analytical Report states that all volatile organic compound (VOCs) concentrations are well below the residential CHHLs. This statement is not accurate since the maximum PCE concentration of 240 $\mu g/m^3$ exceeds the residential CHHSL

of 180 µg/m^3. However, the maximum concentration of PCE does not exceed the San Francisco Bay Regional Water Quality Control Board Environmental Screening Level (ESL) for commercial land use of 2,100 µg/m^3. The detections of PCE were not evaluated or discussed in any recently submitted reports or during a November 14, 2012 meeting. In the Work Plan requested below, we request that you include an evaluation of whether the VOCs in sub-slab vapor represent a human health threat for vapor intrusion or propose additional data collection to compete this evaluation.

2. **Volatile Organic Compounds in Groundwater.** Further review of the case file indicates that groundwater does not appear to have been analyzed for VOCs other than petroleum hydrocarbon constituents. Due to the detections of PCE in sub-slab soil vapor, PCE is a chemical of concern for the site. The absence of VOC data for groundwater may represent a data gap for the site. Vapor intrusion assessments are generally conducted using multiple lines of evidence. VOC data for groundwater would provide an additional line of evidence to evaluate the PCE detected in sub-slab vapor discussed in technical comment 2. Therefore, the collection of a limited number of groundwater samples for VOC analysis is to be included in the Work Plan requested below.

3. **Residual Diesel Contamination.** Hand excavation was conducted inside the western end of the building in the area of a former fuel dispenser. The excavation was stopped at a depth of 2.5 feet below grade. However, soil containing elevated concentrations of total petroleum hydrocarbons as diesel remains in place beneath the western end of the building as indicated by elevated concentrations of TPH as diesel (TPHd) in confirmation soil samples. The TPHd does not appear to pose a human health risk for vapor intrusion to the western end of the building. Napthalene was not detected at concentrations exceeding the LTCP criteria of 93 µg/m^3 in sub-slab soil vapor samples collected beneath the building. As discussed during the November 14, 2012 meeting, the residual TPHd although not an apparent health risk based on comparison to LTCP criteria, may represent an odor or nuisance condition. A method for sealing the floor in this area of the building to mitigate possible nuisance conditions was proposed by Clearwater Group and was discussed during the meeting. However, you may wish to delay presenting plans for mitigation of possible nuisance vapor conditions in the western portion of the building pending completion of an evaluation of the VOC issue discussed in technical comments 1 and 2.

4. **Delineation of TPHd Plume.** A total of an additional ten soil borings was proposed for soil and groundwater sampling in the document entitled, "*Soil and Groundwater Investigation Results*," dated February 29, 2012. The purpose of the proposed borings was to define the lateral and vertical definition of diesel impacts. As discussed during the November 14, 2012 meeting, the results of a detailed well survey will be reviewed to determine whether additional delineation is necessary for the TPHd plume. However, as requested in technical comment 2, the collection of a limited number of groundwater samples for VOC analysis is to be included in the Work Plan requested below. Depending upon their locations, these additional groundwater samples could also provide further delineation of TPHd in groundwater.

5. **Well Search Report**. Based on the results of the well search, the nearest water supply well appears to be a 345 feet deep well located approximately 450 feet west northwest of the site. The nearest well is described as abandoned but not destroyed through a permitted process. Table 4 of the Well Search, which is entitled, "*Well and Tank Locations Identified in Sanborn*

Map Well Search," presents a detailed list of water tank and wind mill locations. Figure 4 provides a detailed map of the water tank locations, which show two water tank locations immediately west of the site. The Well Search Report includes no discussion, conclusions, or recommendations regarding the water tank locations. In the Work Plan requested below, please include some evaluation of these data along with plans to conduct a door to door well survey to verify that no water supply wells are present at these locations.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Jerry Wickham), and to the State Water Resources Control Board's GeoTracker website according to the following schedule and file-naming convention:

- **May 28, 2013** – Work Plan
  File to be named: WP_R_yyyy-mm-dd RO294

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

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: 2013.03.26 17:50:42 -07'00'

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

Attachment: ACEH Correspondence dated December 5, 2012
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*)

Robert Nelson, Clearwater Group, 229 Tewksbury Avenue, Pt. Richmond, CA 94801 (*Sent via E-mail to: RNelson@clearwatergroup.com*)

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 1

Responsible Party(ies) Legal Requirements/Obligations

REPORT/DATA REQUESTS

These reports/data are being requested pursuant to Division 7 of the California Water Code (Water Quality), Chapter 6.7 of Division 20 of the California Health and Safety Code (Underground Storage of Hazardous Substances), and Chapter 16 of Division 3 of Title 23 of the California Code of Regulations (Underground Storage Tank Regulations).

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (Local Oversight Program [LOP] for unauthorized releases from petroleum Underground Storage Tanks [USTs], and Site Cleanup Program [SCP] for unauthorized releases of non-petroleum hazardous substances) require submission of reports in electronic format pursuant to Chapter 3 of Division 7, Sections 13195 and 13197.5 of the California Water Code, and Chapter 30, Articles 1 and 2, Sections 3890 to 3895 of Division 3 of Title 23 of the California Code of Regulations (23 CCR). Instructions for submission of electronic documents to the ACEH FTP site are provided on the attached "Electronic Report Upload Instructions."

Submission of reports to the ACEH FTP site is in addition to requirements for electronic submittal of information (ESI) to the State Water Resources Control Board's (SWRCB) Geotracker website. In April 2001, the SWRCB adopted 23 CCR, Division 3, Chapter 16, Article 12, Sections 2729 and 2729.1 (Electronic Submission of Laboratory Data for UST Reports). Article 12 required electronic submittal of analytical laboratory data submitted in a report to a regulatory agency (effective September 1, 2001), and surveyed locations (latitude, longitude and elevation) of groundwater monitoring wells (effective January 1, 2002) in Electronic Deliverable Format (EDF) to Geotracker. Article 12 was subsequently repealed in 2004 and replaced with Article 30 (Electronic Submittal of Information) which expanded the ESI requirements to include electronic submittal of any report or data required by a regulatory agency from a cleanup site. The expanded ESI submittal requirements for petroleum UST sites subject to the requirements of 23 CCR, Division, 3, Chapter 16, Article 11, became effective December 16, 2004. All other electronic submittals required pursuant to Chapter 30 became effective January 1, 2005. Please visit the SWRCB website for more information on these requirements. (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/)

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "I declare, under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 7835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, late reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SCP)	**REVISION DATE:** July 25, 2012
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (petroleum UST and SCP) require submission of all reports in electronic form to the county's FTP site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as **a single Portable Document Format (PDF) with no password protection**.
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document**. Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted**.
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

1) Obtain User Name and Password
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to .loptoxic@acgov.org
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses**, and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ://alcoftp1.acgov.org
      (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
   b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to .loptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
   d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

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 State-certified 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-H_2O was found to contain 660 micrograms per liter (µg/L) TPH-d, 65 µg/L benzene, 2.4 µg/L toluene, and 3.2 µg/L total xylenes. Groundwater sample TW3-H_2O was found to contain 800 µg/L TPH-d and 0.9 µg/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 µg/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 ($\mu g/m^3$) in V2.2 4L (V2 at 2 feet bgs using a 4 liter canister) to 7,300,000 $\mu g/m^3$ 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 $\mu g/m^3$ 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 $\mu g/m^3$) and in SS-6 (4.6 $\mu g/m^3$). Analytes 1-methylnaphthalene (24 $\mu g/m^3$) and 2-methylnaphthalene (36 $\mu g/m^3$) were both detected in SS-3. Analyte 2-methylnaphthalene was also detected in SS-6 (4.3 $\mu g/m^3$). Concentrations of TPH-g and TEX were detected above detection limits in SS-3 (TPH-g at 13,000 $\mu g/m^3$, toluene at 60 $\mu g/m^3$, ethylbenzene at 560 $\mu g/m^3$, and xylenes at 2,940 $\mu g/m^3$).

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 event 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 µg/L (collected between 11 and 15 feet bgs). The highest TPH-g concentration was detected in S-13 at 200 µg/L (collected between 11 and 15 feet bgs). (The PG&E field clearance technician advises Clearwater that there is a 4" gas main in Calcot Place, near the SB-12 location.)

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

February 2012

On February 29, 2012, Clearwater produced *Sub-Slab Soil Vapor Sampling Report*, and *Soil and Groundwater Investigation Results*.

June 2012
Alameda County Health Care Services requested that the claimant submit a work plan by August 28, 2012, to address the technical comments, or meet with ACEH representatives to agree to a work scope, the surgical dig, and collection of soil vapor sampling samples and analysis for VOCs using the existing 10 soil vapor points. The meeting occurred on November 14, 2012.

Prior to excavating the Dispenser Room, Clearwater staff prepared an *Excavation and Filling Procedures* plan for the 6-foot-wide by 6-foot-deep by 3-foot-long excavation.

October 2012
As requested by ACEH, Clearwater requested from the laboratory that previously reported soil vapor analytical data be re-generated with the addition of chlorinated solvents detections. Air Toxics Ltd. Laboratory provided the laboratory report for the updated data collected on December 8, 2011. VOC detections included the following, which were added to the cumulative sol vapor tables: TPH-g, TPH-d, naphthalene, 1-methyl naphthalene, toluene, ethylbenzene, xylenes, 1, 3, 5-Trimethylbenzene, 1, 2, 4-Trimethylbenzene, Ethanol, tetrachloroethene, methyl chloride, hexane, cyclohexane, cumene, chloroform, Freon 11, Freon 12, Freon 113, 4-ethyltoluene, acetone, and tetrahydrofuran were detected. Some soil vapor points are located in the residential-use area and some are located in commercial-use area. All detections were at levels well below the CHHSLs for their respective use-area. The reporting of this data was provided in Clearwater's, *Update of the Soil Vapor Sample Analytical Report Presented in the Sub-Slab Soil Vapor Sampling Report*.

The dispenser vent pipes and the dispenser room concrete pad were removed. Visibly stained soil below the dispenser area was removed/excavated, and PID readings and samples were taken. Three drums of soil were generated from the excavation and disposed of under manifest. The analytical report from the waste disposal data was sent to Clearwater from Kiff Analytical, and the determination was made that this document does not need to be uploaded due to its status as a waste characterization report.

November 2012 -January 2013
The subslab excavation report, *Sub-Slab Excavation Report*, was produced. An agency meeting occurred at ACEH to review progress and re-set the future scope of work. Per ACEH directive to identify wells within 2,000 feet, a DWR Well Completion Report Request to the ACEH and an Alameda County Public Works Agency (ACPWA) well search request was prepared and submitted to those agencies. A Site area visit was conducted to check for any utility sumps or any obvious presence of wells within the 2,000 foot radius. An EDR Sanborn Map report to identify wells within a ½ mile radius around the site was requested and produced. This included a Sanborn Map report order of 14 Tiles.

February 2013
The *2,000-Foot-Radius Well Search Report* was produced. From the DWR and the ACPWA sources, forty sites with wells were identified. Upwards of 138 historic well sites (evidenced by windmill and/or water tank on roof) were identified in the radius on the Sanborn Tiles.

May 2013
On May 6, notice of additional funding from the USTCF was received. On May 23, Clearwater staff produced the *Workplan for Groundwater Investigation Monitoring Well Installation, Vapor Point Destruction, and Excavation Closure*.

June 2013
Three wells (MW-1 through MW-3) were installed, developed, surveyed, and sampled. Control density fill, a vapor barrier and a concrete pad was used to bring the excavation back up to grade level. Reporting on these activities will be provided before September 1, 2013.

REFERENCES LIST

U.S. Geological Survey (USGS), Oakland East, California Quadrangle Map, 7.5-Minute Series, Topographic, 1959, Photorevised 1980.

Environmental Bio-Systems, Inc., April 21, 1999, UST Excavation, 23rd Avenue Partners, 1125 Miller Avenue, Oakland, CA.

Environmental Bio-Systems, Inc., February 18, 2000, Workplan: Subsurface Exploration, Project #079-541B, 23rd Avenue Partners, 1125 Miller Avenue, Oakland, CA.

Environmental Bio-Systems, Inc., December 31, 2001, Subsurface Exploration, Project #079-541A, 23rd Avenue Partners, 1125 Miller Avenue, Oakland, CA.

Environmental Bio-Systems, Inc., March 21, 2002, Site Closure Workplan, Project #590, 23rd Avenue Partners, 1125 Miller Avenue, Oakland, CA.

Environmental Data Resources, April 29, 2002, The EDR Radius Map with GeoCheck; Topographic Maps, Sanborn Insurance Maps, Historic Aerial Photographs; 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617; Inquiry Number: 770535.3S, Southport, Connecticut.

Environmental Bio-Systems, Inc., October 3, 2002, Site Closure Report, 23rd Avenue Partners, 1125 Miller Avenue, Oakland, CA 94617.

Environmental Bio-Systems, Inc., January 26, 2004, Work Plan: Groundwater Monitoring Well Installation, 23rd Avenue Partners, 1125 Miller Avenue, Oakland, CA 94617.

Clearwater Group, October 12, 2005, Response to Agency Comments and Workplan Addendum, 1125 Miller Avenue, Oakland, CA 94617.

Clearwater Group, February 23, 2006, Subsurface Investigation Results, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

Clearwater Group, January 11, 2007, Results of Soil Vapor and Soil Boring Sampling Investigation – Risk Based Corrective Analysis Report, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

Clearwater Group, September 9, 2008, Work Plan for Sub-Slab Vapor Sampling, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

Clearwater Group, July 23, 2010, Results of Sub-Slab Soil Vapor Investigation Report, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

Clearwater Group, December 1, 2010, Historical Property Uses, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

Clearwater Group, December 10, 2010, Results of Additional Sub-Slab Vapor Investigation, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

Clearwater Group, January 24, 2011, Revised Workplan, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

Clearwater Group, February 29, 2012, Sub-Slab Soil Vapor Sampling Report, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

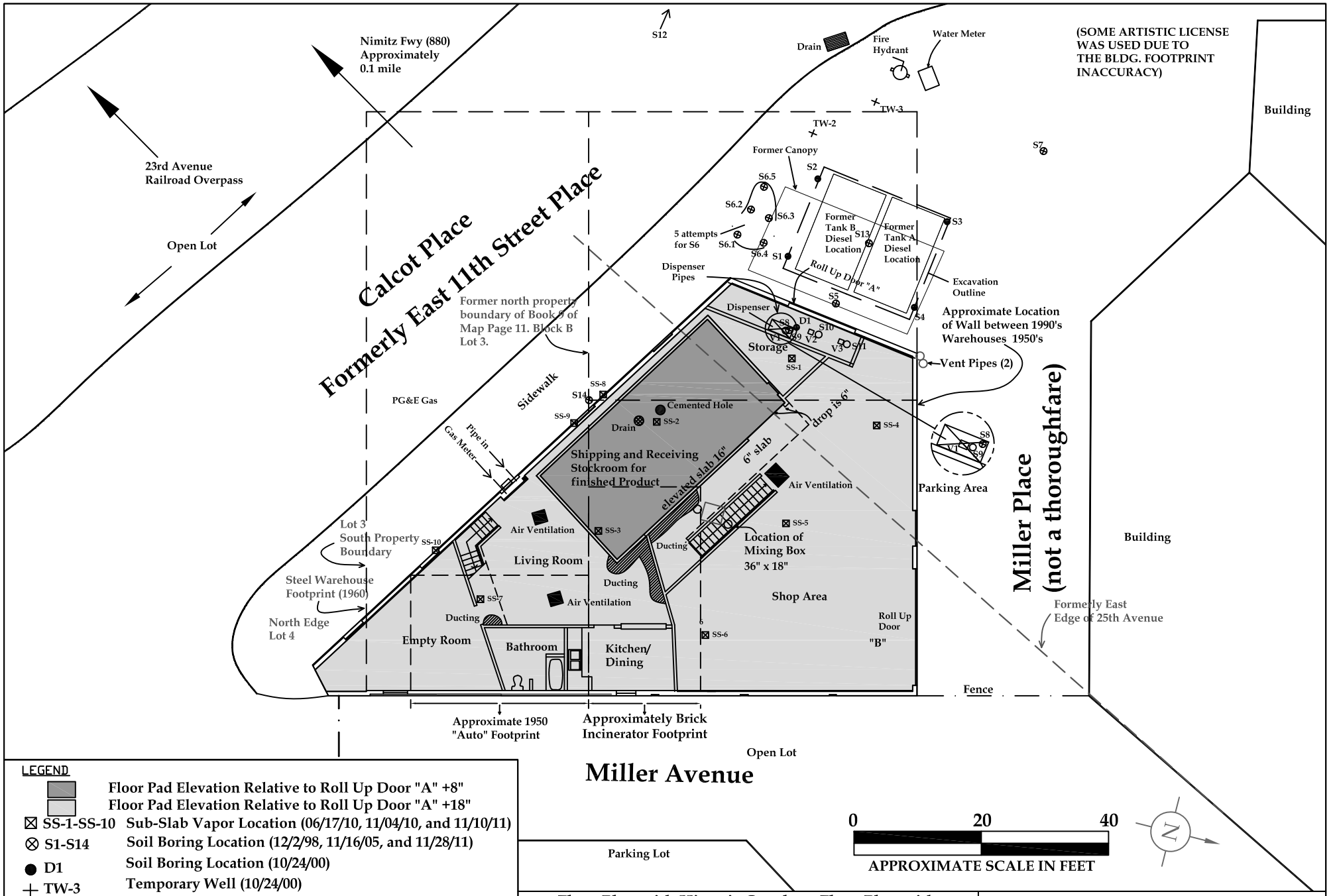
Clearwater Group, February 29, 2012, Soil and Groundwater Investigation Results, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

Clearwater Group, October 9, 2012, Update of the Soil Vapor Sample Analytical Report Presented in the SUB-SLAB SOIL VAPOR SAMPLING REPORT, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

Clearwater Group, November 8, 2012, Sub-Slab Excavation Report, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

Clearwater Group, February 21, 2013, 2,000-Foot-Radius Well Search Report, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.

Clearwater Group, May 23, 2013, Workplan for Groundwater Investigation Monitoring Well Installation, Vapor Point Destruction, and Excavation Closure, 23rd Avenue Partners, 1125 Miller Ave., Oakland, CA 94617.



LEGEND

- Floor Pad Elevation Relative to Roll Up Door "A" +8"
- Floor Pad Elevation Relative to Roll Up Door "A" +18"
- ⊠ SS-1-SS-10 Sub-Slab Vapor Location (06/17/10, 11/04/10, and 11/10/11)
- ⊗ S1-S14 Soil Boring Location (12/2/98, 11/16/05, and 11/28/11)
- ● D1 Soil Boring Location (10/24/00)
- + TW-3 Temporary Well (10/24/00)
- ○ S9-S11 Soil Boring Location (11/15/06)
- □ V1-V3 Soil Vapor Location (11/15/06)

*Note: Five attempts to bore S6 met refusal at 4'-6' due to subsurface debris.

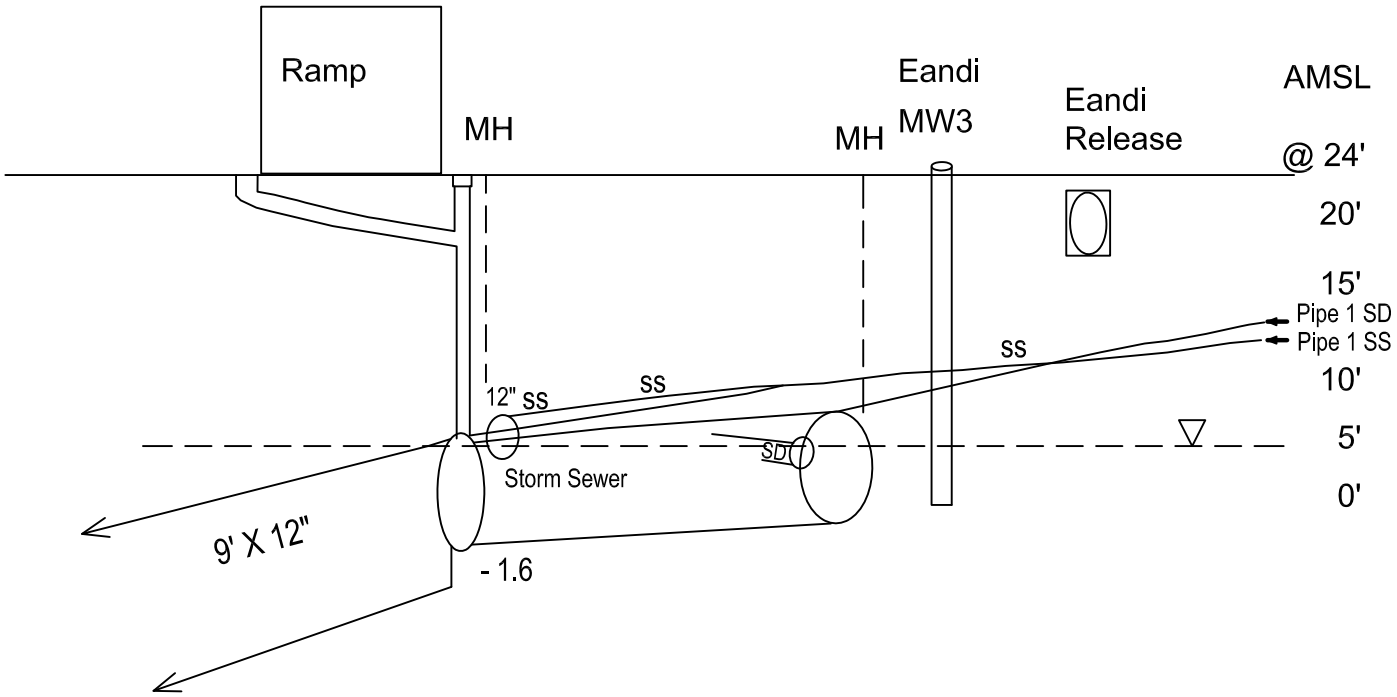
Air Ventilation and Ducting are all in Ceiling

Floor Plan with Historic Overlay - Floor Plan with Incinerator Footprint, Former Property Line Footprints, Former Street Footprint and Concrete Floor Slabs Indicated

1125 Miller Avenue
Oakland, California

CLEARWATER GROUP

Project No.	Figure Date	Figure
CB018	**02/12**	**A**



E. 11th Street
Cross Section

Eandi Release and Local Infrastructure	CLEARWATER GROUP		
1125 Miller Avenue Oakland, California	Project No. **CB018**	Figure Date **3/12**	Figure **B**

ATTACHMENT B

CLEARWATER GROUP

Low-Flow (Minimal Drawdown) Groundwater Monitoring
Standard Operating Procedure

Purpose: The purpose of this standard operating procedure (SOP) is to provide a method of purging that minimizes its impact on the groundwater chemistry during sample collection and to minimize the volume of water that is being purged and disposed of. This will be accomplished by placing the pump intake within the screen interval and by keeping the drawdown at a minimal level until the water quality parameters have stabilized and sample collection is complete. The flow rate at which the pump will be operating will be dependent upon both hydraulic conductivity of the aquifer and the drawdown, with the goal of minimizing the drawdown. The flow rate from the pump during purging and sampling will be at a rate that will not compromise the integrity of the analyte that is being sampled. The flow of groundwater to the pump intake will be dependent on the distribution of the hydraulic conductivity (K) of the aquifer within the screen interval. In order to minimize the drawdown in the monitoring well, a low-flow rate must be utilized. Low-flow refers to the velocity at which water enters the pump intake from the surrounding formation in the immediate vicinity of the well screen.

Equipment: Depth-to-water measuring device – An electronic water-level indicator or steel tape and chalk, with marked intervals of 0.01 foot. Interface probe for determination of liquid products (Non-Aqueous Phase Liquid) presence, if needed. Steel tape and weight – Used for measuring total depth of well. Lead weight should not be used. Sampling pump – Submersible or bladder pumps with adjustable rate controls are preferred. Pumps are to be constructed of inert materials, such as stainless steel and Teflon®. Pump types that are acceptable include gear and helical driven, centrifugal (low-flow type) and air-activated piston. Adjustable rate, peristaltic pump can be used when the depth to water is 20 feet or less. Tubing – Teflon® or Teflon®-lined polyethylene tubing is preferred when sampling for organic compounds. Polyethylene tubing can be used when sampling in organics. Power Source – If a combustion type (gasoline or diesel driven) generator is used, it must be placed downwind of the sampling area. Flow measurement supplies – flow meter, graduated cylinder and a stopwatch. Multi-Parameter meter with flow-through-cell – This can be one instrument or more contained in a flow-through cell. The water-quality indicator parameters that must be monitored are pH, oxidation-reduction potential (ORP), dissolved oxygen (DO), specific conductivity, and temperature. Turbidity readings must be collected before the flow-thru cell because of the potential for sediment buildup, which can bias the turbidity measurements. Calibration fluids for all instruments should be NIST-traceable, and there should be enough for daily calibration throughout the sampling event. The inlet of the flow cell must be located near the bottom of the flow cell and the outlet near the top. The size of the flow cell should be kept to a minimum and a closed cell is preferred. The flow cell must not contain any air or gas bubbles when monitoring for the water-quality indicator parameters. Decontamination Supplies – Include a reliable and documented source of distilled water and any solvents (if used). Pressure sprayers, buckets or decontamination tubes for pumps, brushes, and non-phosphate soap will also be needed. Sample bottles, sample preservation supplies, sample tags or labels, and chain-of-custody forms. Filtration equipment, if needed. An in-line disposable filter is recommended. Polyethylene sheeting, which will be placed on ground around the wellhead. Personal protective equipment specified in the Site Health and Safety Plan. Air

monitoring equipment as specified in the Site Health and Safety Plan. Tool box – All needed tools for all site equipment used. A 55-gallon drum or container to contain the purged water. Materials of construction of the sampling equipment (bladders, pumps, tubing, and other equipment that comes in contact with the sample) should be limited to stainless steel, Teflon®, glass and other inert material. This will reduce the chance that the sampling materials will alter the groundwater where concentrations of the site contaminants are expected to be near the detection limits. The thickness of the sample tubing diameter should be maximized, and the tubing length should be minimized so that the loss of contaminants into and through the tubing walls may be reduced and the rate of stabilization of groundwater parameters is maximized.

Paper/Forms: Well construction data, field and water quality data from the previous sampling event. Well keys and map of well locations. Field notebook, groundwater sampling logs, and calculator. Site Specific Health and Safety Plan.

Procedures:

- Use a bailer to collect a sample from the top of the water column in the well and put into a glass jar to settle for 1 hour. Check for presence of sheen and denote on field notes.
- Set up equipment at well. Connect tubing to YSI flow-thru cell. Outflow tubing should be from top spout of the YSI flow-thru cell directed into a 5-gallon purge bucket. New inflow tubing to YSI flow-thru cell should be connected into the bottom of the YSI coming from the pump. A flow regulator device can be attached in line between the YSI flow-thru cell and the pump.
- Pump reel is connected to the controller.
- Controller is connected to car battery of running vehicle or separate deep charge rechargeable car battery
- Desired flow is set using controller.
- Parameters are collected every 3 minutes until three sets of parameter measurements are within desired range (listed on purge form).
- Flow-thru cell is removed, and sample is collected directly from tubing, making sure not to change the flow rate.

Important: These three procedures must be adhered to for process to be considered "low flow":

- **Flow rate**: rate must be kept at less than **500 ml/min**. Optimal for many surface aquifers is 150-250 ml/min, although if aquifer is high producing, this may be higher.
- **Drawdown:** drawdown should be less than **3/10ths (0.3 foot)** of a foot measured from static depth to water.
- **Pump placement**: If specific zones of contamination, or lithologic zones that have a greater chance of bearing contaminants (i.e. sandy or gravelly lithologies) are known to be present within a zone that is within the well screen interval, this zone will be specified on the field sheet prior to sampling and the pump intake placed accordingly; otherwise, the pump intake should be placed at the middle of the screened interval**.** If the water level is below the middle of the screened interval, the pump intake should be placed approximately 2–3 feet below the depth of the water. Ideally, 2–3 feet of water (head) should be over the pump so that "stagnant" water that has been sitting in the well is not purged.

ATTACHMENT C

CLEARWATER
GROUP
229 Tewksbury Avenue,
Point Richmond, CA 94801
Tel: (510) 307-9943 Fax: (510) 232-2823

Well Inspection and Water Level Gauging Form

Date: 06/26/2013

Project Name: 23rd Avenue Partners

Project Number: CB018R

Field Personnel: Adam Feeney

Well ID	Time	Inspect Well Bolts and Cover	Inspect Well Cap and Lock	DTW (feet)*	DTB (feet)*	DTP (feet)*	Comments
MW-3	10:02	✓	✓	11.71	23.		
MW-1	09:55	✓	✓	9.64	23.5		2"
MW-2	10:00	✓	✓	9.87	23.5		
	:						
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Notes:
DTW = depth to water
DTB = depth to bottom of well (minimize disturbance)
DTP = depth to product
* Measured from top of PVC casing, north side.

Field Form A

GROUNDWATER SAMPLING FORM: LOW-FLOW, LOW-STRESS METHOD

CLEARWATER GROUP
Environmental Services

Sample Location	MW-1
Date	6/26/13
Project Name	23rd Avenue Partners
Project Number	CB018R

Static Depth to Water (ft)	~~9.87~~ AMS 9.64	Sample Collection Time	1040
Total Purge Volume (gal)	1.8 L	Purge Method	Low-Flow
Total Depth (ft)	23.5	Sample Method and Analytical	TPH-g, TPH-d, BTEX, MTBE, VOC Full List by 8260B and 8015M
Screen Depth Interval (ft)	8' - 23'	Water Description (Sheen Y/N)	Clear, no Sheen
Pump Intake Depth (feet)	1/2 water column est. @ 20' 16.32	Sampling Personnel	A. Feeney

Time (min)	Volume Purged (L)	Flow Rate (mL/min)	Depth to Water (ft)	Drawdown (ft)	Temp C +/- 0.1	Dissolved Oxygen (mg/L) +/- 10%	Conductivity (u-siemens/cm) +/- 3%	pH (SU) +/- 0.1	ORP (mV) +/- 10 mV	Comments:
1024	300mL	100	9.70	.06	21.4	1.77	665	6.8	78	
1027	600mL		9.71	.01	20.9	1.37	641	6.8	81	
1030	900mL		9.71	-	20.9	1.29	628	6.8	83	
1033	1.2L		9.71	-	20.7	1.24	610	6.8	87	
1036	1.5L		9.71	-	20.8	1.23	606	6.8	90	
1039	1.8L		9.71	-	20.8	1.23	600	6.8	91	

GROUNDWATER SAMPLING FORM: LOW-FLOW, LOW-STRESS METHOD

CLEARWATER GROUP
Environmental Services

Sample Location	MW-2
Date	6/26/13
Project Name	23rd Avenue Partners
Project Number	CB018R

Static Depth to Water (ft)	9.87	Sample Collection Time	1110
Total Purge Volume (gal)	3L	Purge Method	Low-Flow
Total Depth (ft)	23.50	Sample Method and Analytical	TPH-g, TPH-d, BTEX, MTBE, VOC Full List by 8260B and 8015M
Screen Depth Interval (ft)	8' - 23'	Water Description (Sheen Y/N)	cloudy, no sheen
Pump Intake Depth (feet)	1/2 water column est. @ 20'	Sampling Personnel	A. Feeney

16.43

Time (min)	Volume Purged (L)	Flow Rate (mL/min)	Depth to Water (ft)	Drawdown (ft)	Temp °C +/- 0.1	Dissolved Oxygen (mg/L) +/- 10%	Conductivity (u-siemens/cm) +/- 3%	pH (SU) +/- 0.1	ORP (mV) +/- 10 mV	Comments:
1058	600mL	200	10.00	.23	21.3	0.66	764	6.6	143	
1101	1.2L		10.01	.01	21.3	0.56	744	6.6	141	
1104	1.8L		10.01	-	21.3	0.53	731	6.7	140	
1107	2.4L		10.01	-	21.3	0.53	729	6.7	142	
1110	3L		10.01	-	21.3	0.54	728	6.7	142	

GROUNDWATER SAMPLING FORM: LOW-FLOW, LOW-STRESS METHOD

CLEARWATER GROUP
Environmental Services

Sample Location	MW-3
Date	6/26/13
Project Name	23rd Avenue Partners
Project Number	CB018R

Static Depth to Water (ft)	11.71	Sample Collection Time	1140
Total Purge Volume (gal)	2.4L	Purge Method	Low-Flow
Total Depth (ft)	23.60	Sample Method and Analytical	TPH-g, TPH-d, BTEX, MTBE, VOC Full List by 8260B and 8015M
Screen Depth Interval (ft)	8' - 23'	Water Description (Sheen Y/N)	clear, no sheen
Pump Intake Depth (feet)	1/2 water column est. @ 20'	Sampling Personnel	A. Feeney

17.36

Time (min)	Volume Purged (L)	Flow Rate (mL/min)	Depth to Water (ft)	Drawdown (ft)	Temp © +/- 0.1	Dissolved Oxygen (mg/L) +/- 10%	Conductivity (u-siemens/cm) +/- 3%	pH (SU) +/- 0.1	ORP (mV) +/- 10 mV	Comments:
1129	600mL	200	11.72	.01	20.2	1.28	544	6.6	152	
1132	1.2L	1	11.73	.01	20.4	1.07	545	6.6	147	
1135	1.8L	1	11.73	-	20.5	1.06	545	6.6	145	
1138	2.4L	1	11.73	-	20.5	1.06	545	6.6	144	

Field Form B

ATTACHMENT D

KIFF Analytical LLC

Report Number : 85265
Date : 07/02/2013

Laboratory Results

Olivia Jacobs
Clearwater Group, Inc
229 Tewksbury Avenue
Point Richmond, CA 94801

Subject : 3 Water Samples
Project Name : 23rd Avenue Partners
Project Number : CB018R

Dear Ms. Jacobs,

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 and TNI 2009 standards. 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,

Troy G. Turpen

Troy Turpen

KIFF Analytical LLC

Report Number : 85265
Date : 07/02/2013

Project Name : **23rd Avenue Partners**
Project Number : **CB018R**

Sample : **MW-3** Matrix : Water Lab Number : 85265-01
Sample Date :06/26/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	06/29/13 02:04
Octacosane (Diesel Surrogate)	99.7		% Recovery	M EPA 8015	06/29/13 02:04

Sample : **MW-1** Matrix : Water Lab Number : 85265-02
Sample Date :06/26/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	06/29/13 01:34
Octacosane (Diesel Surrogate)	98.8		% Recovery	M EPA 8015	06/29/13 01:34

Sample : **MW-2** Matrix : Water Lab Number : 85265-03
Sample Date :06/26/2013

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date/Time Analyzed
TPH as Diesel	**2500**	50	ug/L	M EPA 8015	07/02/13 00:53
Octacosane (Diesel Surrogate)	108		% Recovery	M EPA 8015	07/02/13 00:53

KIFF Analytical LLC

Report Number : 85265

Date : 07/02/2013

Sample : **MW-3**

Project Name : **23rd Avenue Partners**

Project Number : **CB018R** Lab Number : 85265-01

Matrix : Water Sample Date :06/26/2013 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	07/02/13 02:04
TPH as Gasoline	< 50	50	ug/L	07/02/13 02:04
Dichlorodifluoromethane	< 0.50	0.50	ug/L	07/02/13 02:04
Chloromethane	< 0.50	0.50	ug/L	07/02/13 02:04
Vinyl Chloride	< 0.50	0.50	ug/L	07/02/13 02:04
Bromomethane	< 20	20	ug/L	07/02/13 02:04
Chloroethane	< 0.50	0.50	ug/L	07/02/13 02:04
Trichlorofluoromethane	< 0.50	0.50	ug/L	07/02/13 02:04
1,1-Dichloroethene	< 0.50	0.50	ug/L	07/02/13 02:04
Methylene Chloride	< 5.0	5.0	ug/L	07/02/13 02:04
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	07/02/13 02:04
1,1-Dichloroethane	< 0.50	0.50	ug/L	07/02/13 02:04
2,2-Dichloropropane	< 0.50	0.50	ug/L	07/02/13 02:04
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	07/02/13 02:04
Chloroform	**0.99**	0.50	ug/L	07/02/13 02:04
Bromochloromethane	< 0.50	0.50	ug/L	07/02/13 02:04
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	07/02/13 02:04
1,1-Dichloropropene	< 0.50	0.50	ug/L	07/02/13 02:04
1,2-Dichloroethane	< 0.50	0.50	ug/L	07/02/13 02:04
Carbon Tetrachloride	< 0.50	0.50	ug/L	07/02/13 02:04
Benzene	< 0.50	0.50	ug/L	07/02/13 02:04
Trichloroethene	**4.3**	0.50	ug/L	07/02/13 02:04
1,2-Dichloropropane	< 0.50	0.50	ug/L	07/02/13 02:04
Bromodichloromethane	< 0.50	0.50	ug/L	07/02/13 02:04
Dibromomethane	< 0.50	0.50	ug/L	07/02/13 02:04
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	07/02/13 02:04
Toluene	< 0.50	0.50	ug/L	07/02/13 02:04
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	07/02/13 02:04
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	07/02/13 02:04
1,3-Dichloropropane	< 0.50	0.50	ug/L	07/02/13 02:04
Tetrachloroethene	< 0.50	0.50	ug/L	07/02/13 02:04
Dibromochloromethane	< 0.50	0.50	ug/L	07/02/13 02:04
1,2-Dibromoethane	< 0.50	0.50	ug/L	07/02/13 02:04
Chlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:04

KIFF Analytical LLC

Report Number : 85265
Date : 07/02/2013

Sample : **MW-3**
Project Name : **23rd Avenue Partners**
Project Number : **CB018R** Lab Number : 85265-01
Matrix : Water Sample Date :06/26/2013 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	07/02/13 02:04
Ethylbenzene	< 0.50	0.50	ug/L	07/02/13 02:04
P,M-Xylene	< 1.0	1.0	ug/L	07/02/13 02:04
O-Xylene	< 0.50	0.50	ug/L	07/02/13 02:04
Styrene	< 0.50	0.50	ug/L	07/02/13 02:04
Isopropyl benzene	< 0.50	0.50	ug/L	07/02/13 02:04
Bromoform	< 0.50	0.50	ug/L	07/02/13 02:04
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	07/02/13 02:04
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	07/02/13 02:04
n-Propylbenzene	< 0.50	0.50	ug/L	07/02/13 02:04
Bromobenzene	< 0.50	0.50	ug/L	07/02/13 02:04
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	07/02/13 02:04
2+4-Chlorotoluene	< 1.0	1.0	ug/L	07/02/13 02:04
tert-Butylbenzene	< 0.50	0.50	ug/L	07/02/13 02:04
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	07/02/13 02:04
sec-Butylbenzene	< 0.50	0.50	ug/L	07/02/13 02:04
p-Isopropyltoluene	< 0.50	0.50	ug/L	07/02/13 02:04
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:04
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:04
n-Butylbenzene	< 0.50	0.50	ug/L	07/02/13 02:04
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:04
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	07/02/13 02:04
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:04
Hexachlorobutadiene	< 0.50	0.50	ug/L	07/02/13 02:04
Naphthalene	< 0.50	0.50	ug/L	07/02/13 02:04
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:04
1,2-Dichloroethane-d4 (Surr)	97.0		% Recovery	07/02/13 02:04
4-Bromofluorobenzene (Surr)	97.7		% Recovery	07/02/13 02:04
Toluene - d8 (Surr)	96.4		% Recovery	07/02/13 02:04

KIFF Analytical LLC

Report Number : 85265

Date : 07/02/2013

Sample : **MW-1**

Project Name : **23rd Avenue Partners**

Project Number : **CB018R** Lab Number : 85265-02

Matrix : Water Sample Date :06/26/2013 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	07/02/13 02:37
TPH as Gasoline	< 50	50	ug/L	07/02/13 02:37
Dichlorodifluoromethane	< 0.50	0.50	ug/L	07/02/13 02:37
Chloromethane	< 0.50	0.50	ug/L	07/02/13 02:37
Vinyl Chloride	< 0.50	0.50	ug/L	07/02/13 02:37
Bromomethane	< 20	20	ug/L	07/02/13 02:37
Chloroethane	< 0.50	0.50	ug/L	07/02/13 02:37
Trichlorofluoromethane	< 0.50	0.50	ug/L	07/02/13 02:37
1,1-Dichloroethene	< 0.50	0.50	ug/L	07/02/13 02:37
Methylene Chloride	< 5.0	5.0	ug/L	07/02/13 02:37
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	07/02/13 02:37
1,1-Dichloroethane	< 0.50	0.50	ug/L	07/02/13 02:37
2,2-Dichloropropane	< 0.50	0.50	ug/L	07/02/13 02:37
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	07/02/13 02:37
Chloroform	< 0.50	0.50	ug/L	07/02/13 02:37
Bromochloromethane	< 0.50	0.50	ug/L	07/02/13 02:37
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	07/02/13 02:37
1,1-Dichloropropene	< 0.50	0.50	ug/L	07/02/13 02:37
1,2-Dichloroethane	< 0.50	0.50	ug/L	07/02/13 02:37
Carbon Tetrachloride	< 0.50	0.50	ug/L	07/02/13 02:37
Benzene	< 0.50	0.50	ug/L	07/02/13 02:37
Trichloroethene	**0.93**	0.50	ug/L	07/02/13 02:37
1,2-Dichloropropane	< 0.50	0.50	ug/L	07/02/13 02:37
Bromodichloromethane	< 0.50	0.50	ug/L	07/02/13 02:37
Dibromomethane	< 0.50	0.50	ug/L	07/02/13 02:37
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	07/02/13 02:37
Toluene	< 0.50	0.50	ug/L	07/02/13 02:37
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	07/02/13 02:37
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	07/02/13 02:37
1,3-Dichloropropane	< 0.50	0.50	ug/L	07/02/13 02:37
Tetrachloroethene	< 0.50	0.50	ug/L	07/02/13 02:37
Dibromochloromethane	< 0.50	0.50	ug/L	07/02/13 02:37
1,2-Dibromoethane	< 0.50	0.50	ug/L	07/02/13 02:37
Chlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:37

KIFF Analytical LLC

Report Number : 85265
Date : 07/02/2013

Sample : **MW-1**
Project Name : **23rd Avenue Partners**
Project Number : **CB018R** Lab Number : 85265-02
Matrix : Water Sample Date :06/26/2013 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	07/02/13 02:37
Ethylbenzene	< 0.50	0.50	ug/L	07/02/13 02:37
P,M-Xylene	< 1.0	1.0	ug/L	07/02/13 02:37
O-Xylene	< 0.50	0.50	ug/L	07/02/13 02:37
Styrene	< 0.50	0.50	ug/L	07/02/13 02:37
Isopropyl benzene	< 0.50	0.50	ug/L	07/02/13 02:37
Bromoform	< 0.50	0.50	ug/L	07/02/13 02:37
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	07/02/13 02:37
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	07/02/13 02:37
n-Propylbenzene	< 0.50	0.50	ug/L	07/02/13 02:37
Bromobenzene	< 0.50	0.50	ug/L	07/02/13 02:37
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	07/02/13 02:37
2+4-Chlorotoluene	< 1.0	1.0	ug/L	07/02/13 02:37
tert-Butylbenzene	< 0.50	0.50	ug/L	07/02/13 02:37
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	07/02/13 02:37
sec-Butylbenzene	< 0.50	0.50	ug/L	07/02/13 02:37
p-Isopropyltoluene	< 0.50	0.50	ug/L	07/02/13 02:37
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:37
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:37
n-Butylbenzene	< 0.50	0.50	ug/L	07/02/13 02:37
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:37
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	07/02/13 02:37
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:37
Hexachlorobutadiene	< 0.50	0.50	ug/L	07/02/13 02:37
Naphthalene	< 0.50	0.50	ug/L	07/02/13 02:37
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	07/02/13 02:37
1,2-Dichloroethane-d4 (Surr)	95.9		% Recovery	07/02/13 02:37
4-Bromofluorobenzene (Surr)	98.0		% Recovery	07/02/13 02:37
Toluene - d8 (Surr)	96.4		% Recovery	07/02/13 02:37

KIFF Analytical LLC

Report Number : 85265
Date : 07/02/2013

Sample : **MW-2**
Project Name : **23rd Avenue Partners**
Project Number : **CB018R** Lab Number : 85265-03
Matrix : Water Sample Date :06/26/2013 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	07/02/13 03:09
TPH as Gasoline	**55**	50	ug/L	07/02/13 03:09
Dichlorodifluoromethane	< 0.50	0.50	ug/L	07/02/13 03:09
Chloromethane	< 0.50	0.50	ug/L	07/02/13 03:09
Vinyl Chloride	< 0.50	0.50	ug/L	07/02/13 03:09
Bromomethane	< 20	20	ug/L	07/02/13 03:09
Chloroethane	< 0.50	0.50	ug/L	07/02/13 03:09
Trichlorofluoromethane	< 0.50	0.50	ug/L	07/02/13 03:09
1,1-Dichloroethene	< 0.50	0.50	ug/L	07/02/13 03:09
Methylene Chloride	< 5.0	5.0	ug/L	07/02/13 03:09
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	07/02/13 03:09
1,1-Dichloroethane	< 0.50	0.50	ug/L	07/02/13 03:09
2,2-Dichloropropane	< 0.50	0.50	ug/L	07/02/13 03:09
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	07/02/13 03:09
Chloroform	< 0.50	0.50	ug/L	07/02/13 03:09
Bromochloromethane	< 0.50	0.50	ug/L	07/02/13 03:09
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	07/02/13 03:09
1,1-Dichloropropene	< 0.50	0.50	ug/L	07/02/13 03:09
1,2-Dichloroethane	< 0.50	0.50	ug/L	07/02/13 03:09
Carbon Tetrachloride	< 0.50	0.50	ug/L	07/02/13 03:09
Benzene	**7.8**	0.50	ug/L	07/02/13 03:09
Trichloroethene	**1.6**	0.50	ug/L	07/02/13 03:09
1,2-Dichloropropane	< 0.50	0.50	ug/L	07/02/13 03:09
Bromodichloromethane	< 0.50	0.50	ug/L	07/02/13 03:09
Dibromomethane	< 0.50	0.50	ug/L	07/02/13 03:09
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	07/02/13 03:09
Toluene	< 0.50	0.50	ug/L	07/02/13 03:09
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	07/02/13 03:09
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	07/02/13 03:09
1,3-Dichloropropane	< 0.50	0.50	ug/L	07/02/13 03:09
Tetrachloroethene	< 0.50	0.50	ug/L	07/02/13 03:09
Dibromochloromethane	< 0.50	0.50	ug/L	07/02/13 03:09
1,2-Dibromoethane	< 0.50	0.50	ug/L	07/02/13 03:09
Chlorobenzene	< 0.50	0.50	ug/L	07/02/13 03:09

KIFF Analytical LLC

Report Number : 85265
Date : 07/02/2013

Sample : **MW-2**
Project Name : **23rd Avenue Partners**
Project Number : **CB018R** Lab Number : 85265-03
Matrix : Water Sample Date :06/26/2013 Analysis Method: EPA 8260B

Parameter	Measured Value	Method Reporting Limit	Units	Date/Time Analyzed
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	07/02/13 03:09
Ethylbenzene	< 0.50	0.50	ug/L	07/02/13 03:09
P,M-Xylene	< 1.0	1.0	ug/L	07/02/13 03:09
O-Xylene	< 0.50	0.50	ug/L	07/02/13 03:09
Styrene	< 0.50	0.50	ug/L	07/02/13 03:09
Isopropyl benzene	< 0.50	0.50	ug/L	07/02/13 03:09
Bromoform	< 0.50	0.50	ug/L	07/02/13 03:09
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	07/02/13 03:09
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	07/02/13 03:09
n-Propylbenzene	< 0.50	0.50	ug/L	07/02/13 03:09
Bromobenzene	< 0.50	0.50	ug/L	07/02/13 03:09
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	07/02/13 03:09
2+4-Chlorotoluene	< 1.0	1.0	ug/L	07/02/13 03:09
tert-Butylbenzene	< 0.50	0.50	ug/L	07/02/13 03:09
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	07/02/13 03:09
sec-Butylbenzene	< 0.50	0.50	ug/L	07/02/13 03:09
p-Isopropyltoluene	< 0.50	0.50	ug/L	07/02/13 03:09
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	07/02/13 03:09
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	07/02/13 03:09
n-Butylbenzene	< 0.50	0.50	ug/L	07/02/13 03:09
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	07/02/13 03:09
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	07/02/13 03:09
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	07/02/13 03:09
Hexachlorobutadiene	< 0.50	0.50	ug/L	07/02/13 03:09
Naphthalene	< 0.50	0.50	ug/L	07/02/13 03:09
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	07/02/13 03:09
1,2-Dichloroethane-d4 (Surr)	97.6		% Recovery	07/02/13 03:09
4-Bromofluorobenzene (Surr)	99.3		% Recovery	07/02/13 03:09
Toluene - d8 (Surr)	96.4		% Recovery	07/02/13 03:09

Report Number : 85265

Date : 07/02/2013

QC Report : Method Blank Data

Project Name : **23rd Avenue Partners**

Project Number : **CB018R**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	< 50	50	ug/L	M EPA 8015	06/28/2013
Octacosane (Diesel Surrogate)	105		%	M EPA 8015	06/28/2013
TPH as Diesel	< 50	50	ug/L	M EPA 8015	07/01/2013
Octacosane (Diesel Surrogate)	111		%	M EPA 8015	07/01/2013
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	07/01/2013
1,1,1,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,1,1-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,1,2,2-Tetrachloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,1,2-Trichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,1-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,1-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,1-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,2,3-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,2,3-Trichloropropane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,2,4-Trichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,2,4-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,2-Dibromo-3-chloropropane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,2-Dibromoethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,2-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,2-Dichloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,3,5-Trimethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,3-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,3-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,4-Dichlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
2+4-Chlorotoluene	< 1.0	1.0	ug/L	EPA 8260B	07/01/2013
2,2-Dichloropropane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Benzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Bromobenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Bromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Bromodichloromethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Bromoform	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Bromomethane	< 20	20	ug/L	EPA 8260B	07/01/2013
Carbon Tetrachloride	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Chlorobenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Chloroethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Chloroform	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Chloromethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Dibromochloromethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Dibromomethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Dichlorodifluoromethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Hexachlorobutadiene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Isopropyl benzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Methylene Chloride	< 5.0	5.0	ug/L	EPA 8260B	07/01/2013
Naphthalene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
O-Xylene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
P,M-Xylene	< 1.0	1.0	ug/L	EPA 8260B	07/01/2013
Styrene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Tetrachloroethene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Toluene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Trichloroethene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Trichlorofluoromethane	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
Vinyl Chloride	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
cis-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
cis-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
n-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
n-Propylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
p-Isopropyltoluene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
sec-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
tert-Butylbenzene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
trans-1,2-Dichloroethene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
trans-1,3-Dichloropropene	< 0.50	0.50	ug/L	EPA 8260B	07/01/2013
1,2-Dichloroethane-d4 (Surr)	96.4		%	EPA 8260B	07/01/2013
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	07/01/2013
Toluene - d8 (Surr)	96.2		%	EPA 8260B	07/01/2013

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 85265

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 07/02/2013

Project Name : **23rd Avenue Partners**

Project Number : **CB018R**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel														
	BLANK	<50	1000	1000	1220	1210	ug/L	M EPA 8015	6/28/13	122	121	0.171	70-130	25
TPH as Diesel														
	BLANK	<50	1000	1000	1220	1220	ug/L	M EPA 8015	7/1/13	122	122	0.262	70-130	25
1,1,1,2-Tetrachloroethane														
	85306-01	<0.50	40.0	40.0	42.2	41.6	ug/L	EPA 8260B	7/1/13	105	104	1.35	70.0-130	25
1,1,1-Trichloroethane														
	85306-01	<0.50	40.0	40.0	40.9	39.5	ug/L	EPA 8260B	7/1/13	102	98.7	3.55	70.0-130	25
1,1,2,2-Tetrachloroethane														
	85306-01	<0.50	40.0	40.0	42.2	41.8	ug/L	EPA 8260B	7/1/13	105	104	0.910	70.0-130	25
1,1,2-Trichloroethane														
	85306-01	<0.50	40.0	40.0	39.6	38.8	ug/L	EPA 8260B	7/1/13	98.9	97.1	1.87	70.0-130	25
1,1-Dichloroethane														
	85306-01	<0.50	40.0	40.0	38.5	37.7	ug/L	EPA 8260B	7/1/13	96.2	94.3	1.96	70.0-130	25
1,1-Dichloroethene														
	85306-01	<0.50	40.0	40.0	38.7	37.4	ug/L	EPA 8260B	7/1/13	96.9	93.5	3.49	70.0-130	25
1,1-Dichloropropene														
	85306-01	<0.50	40.0	40.0	39.1	38.0	ug/L	EPA 8260B	7/1/13	97.8	95.0	2.80	70.0-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 07/02/2013

Project Name : **23rd Avenue Partners**

Project Number : **CB018R**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,2,3-Trichlorobenzene														
	85306-01	<0.50	40.0	40.0	38.8	38.4	ug/L	EPA 8260B	7/1/13	97.0	96.0	0.962	70.0-130	25
1,2,3-Trichloropropane														
	85306-01	<0.50	40.0	40.0	41.4	40.6	ug/L	EPA 8260B	7/1/13	103	102	1.82	70.0-130	25
1,2,4-Trichlorobenzene														
	85306-01	<0.50	40.0	40.0	39.6	38.8	ug/L	EPA 8260B	7/1/13	99.0	96.9	2.20	70.0-130	25
1,2,4-Trimethylbenzene														
	85306-01	<0.50	40.0	40.0	41.3	39.9	ug/L	EPA 8260B	7/1/13	103	99.8	3.25	70.0-130	25
1,2-Dibromoethane														
	85306-01	<0.50	40.3	40.3	40.4	40.3	ug/L	EPA 8260B	7/1/13	100	100	0.264	70.0-130	25
1,2-Dichlorobenzene														
	85306-01	<0.50	40.0	40.0	40.5	39.6	ug/L	EPA 8260B	7/1/13	101	98.9	2.21	70.0-130	25
1,2-Dichloroethane														
	85306-01	<0.50	40.0	40.0	40.3	39.5	ug/L	EPA 8260B	7/1/13	101	98.8	1.93	70.0-130	25
1,2-Dichloropropane														
	85306-01	<0.50	40.0	40.0	38.8	38.0	ug/L	EPA 8260B	7/1/13	97.1	94.9	2.26	70.0-130	25
1,2-dibromo-3-chloropropane														
	85306-01	<0.50	40.0	40.0	37.3	37.2	ug/L	EPA 8260B	7/1/13	93.3	93.1	0.279	70.0-130	25
1,3,5-Trimethylbenzene														
	85306-01	<0.50	40.0	40.0	41.2	40.1	ug/L	EPA 8260B	7/1/13	103	100	2.58	70.0-130	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 07/02/2013

Project Name : **23rd Avenue Partners**

Project Number : **CB018R**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
1,3-Dichlorobenzene														
	85306-01	<0.50	40.0	40.0	40.8	39.5	ug/L	EPA 8260B	7/1/13	102	98.6	3.38	70.0-130	25
1,3-Dichloropropane														
	85306-01	<0.50	40.0	40.0	38.7	38.2	ug/L	EPA 8260B	7/1/13	96.8	95.4	1.41	70.0-130	25
1,4-Dichlorobenzene														
	85306-01	<0.50	40.0	40.0	40.0	39.4	ug/L	EPA 8260B	7/1/13	99.9	98.4	1.50	70.0-130	25
2+4-Chlorotoluene														
	85306-01	<1.0	80.0	80.0	81.8	80.0	ug/L	EPA 8260B	7/1/13	102	100	2.30	70.0-130	25
2,2-Dichloropropane														
	85306-01	<0.50	40.0	40.0	39.2	37.7	ug/L	EPA 8260B	7/1/13	97.9	94.2	3.91	70.0-130	25
Benzene														
	85306-01	<0.50	40.0	40.0	39.1	38.1	ug/L	EPA 8260B	7/1/13	97.9	95.2	2.74	70.0-130	25
Bromobenzene														
	85306-01	<0.50	40.0	40.0	41.1	40.3	ug/L	EPA 8260B	7/1/13	103	101	1.86	70.0-130	25
Bromochloromethane														
	85306-01	<0.50	40.0	40.0	39.0	38.9	ug/L	EPA 8260B	7/1/13	97.5	97.3	0.217	70.0-130	25
Bromodichloromethane														
	85306-01	<0.50	40.0	40.0	40.7	40.0	ug/L	EPA 8260B	7/1/13	102	100	1.76	70.0-130	25
Bromoform														
	85306-01	<0.50	40.0	40.0	41.4	41.0	ug/L	EPA 8260B	7/1/13	104	102	0.908	70.0-135	25

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 07/02/2013

Project Name : **23rd Avenue Partners**

Project Number : **CB018R**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Bromomethane														
	85306-01	<20	200	200	181	184	ug/L	EPA 8260B	7/1/13	90.7	92.2	1.60	50.0-135	25
Carbon Tetrachloride														
	85306-01	<0.50	40.0	40.0	40.7	39.6	ug/L	EPA 8260B	7/1/13	102	99.1	2.67	70.0-130	25
Chlorobenzene														
	85306-01	<0.50	40.0	40.0	40.4	39.4	ug/L	EPA 8260B	7/1/13	101	98.5	2.54	70.0-130	25
Chloroethane														
	85306-01	<0.50	40.0	40.0	38.7	37.6	ug/L	EPA 8260B	7/1/13	96.8	94.1	2.87	70.0-130	25
Chloroform														
	85306-01	<0.50	40.0	40.0	39.4	38.7	ug/L	EPA 8260B	7/1/13	98.5	96.8	1.72	70.0-130	25
Chloromethane														
	85306-01	<0.50	40.0	40.0	38.0	37.6	ug/L	EPA 8260B	7/1/13	95.1	93.9	1.26	70.0-130	25
Dibromochloromethane														
	85306-01	<0.50	40.0	40.0	40.7	40.5	ug/L	EPA 8260B	7/1/13	102	101	0.436	70.0-130	25
Dibromomethane														
	85306-01	<0.50	40.0	40.0	38.9	38.2	ug/L	EPA 8260B	7/1/13	97.2	95.6	1.72	70.0-130	25
Dichlorodifluoromethane														
	85306-01	<0.50	40.0	40.0	39.3	38.0	ug/L	EPA 8260B	7/1/13	98.2	95.0	3.30	65.0-140	25
Ethylbenzene														
	85306-01	<0.50	40.0	40.0	42.0	41.2	ug/L	EPA 8260B	7/1/13	105	103	1.97	70.0-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 07/02/2013

Project Name : **23rd Avenue Partners**

Project Number : **CB018R**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Hexachlorobutadiene														
	85306-01	<0.50	40.0	40.0	38.7	38.1	ug/L	EPA 8260B	7/1/13	96.8	95.4	1.51	70.0-130	25
Isopropyl benzene														
	85306-01	<0.50	40.0	40.0	40.5	39.5	ug/L	EPA 8260B	7/1/13	101	98.7	2.54	70.0-130	25
Methyl-t-butyl ether														
	85306-01	<0.50	39.9	39.9	38.1	38.4	ug/L	EPA 8260B	7/1/13	95.6	96.4	0.818	70.0-130	25
Methylene Chloride														
	85306-01	<5.0	40.0	40.0	38.0	37.1	ug/L	EPA 8260B	7/1/13	95.1	92.8	2.41	70.0-130	25
Naphthalene														
	85306-01	<0.50	40.0	40.0	40.6	40.3	ug/L	EPA 8260B	7/1/13	101	101	0.714	70.0-130	25
O-Xylene														
	85306-01	<0.50	40.0	40.0	41.3	40.5	ug/L	EPA 8260B	7/1/13	103	101	1.86	70.0-130	25
P + M Xylene														
	85306-01	<1.0	40.0	40.0	41.0	39.9	ug/L	EPA 8260B	7/1/13	102	99.8	2.62	70.0-130	25
Styrene														
	85306-01	<0.50	40.0	40.0	42.6	41.9	ug/L	EPA 8260B	7/1/13	106	105	1.68	70.0-130	25
Tetrachloroethene														
	85306-01	<0.50	40.0	40.0	39.3	37.9	ug/L	EPA 8260B	7/1/13	98.2	94.8	3.62	70.0-130	25
Toluene														
	85306-01	<0.50	40.0	40.0	39.6	38.7	ug/L	EPA 8260B	7/1/13	99.1	96.7	2.44	70.0-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **23rd Avenue Partners**

Project Number : **CB018R**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Trichloroethene														
	85306-01	<0.50	40.0	40.0	38.8	37.9	ug/L	EPA 8260B	7/1/13	96.9	94.8	2.15	70.0-130	25
Trichlorofluoromethane														
	85306-01	<0.50	40.0	40.0	40.0	39.0	ug/L	EPA 8260B	7/1/13	100	97.4	2.78	70.0-130	25
Vinyl Chloride														
	85306-01	<0.50	40.0	40.0	38.6	37.5	ug/L	EPA 8260B	7/1/13	96.5	93.7	2.97	70.0-130	25
c-1,3-Dichloropropene														
	85306-01	<5.0	40.0	40.0	40.5	39.6	ug/L	EPA 8260B	7/1/13	101	99.1	2.22	70.0-130	25
cis-1,2-Dichloroethene														
	85306-01	<0.50	40.0	40.0	38.0	37.3	ug/L	EPA 8260B	7/1/13	94.9	93.4	1.67	70.0-130	25
n-butylbenzene														
	85306-01	<0.50	40.0	40.0	41.2	39.8	ug/L	EPA 8260B	7/1/13	103	99.5	3.43	70.0-130	25
n-propylbenzene														
	85306-01	<0.50	40.0	40.0	41.2	40.0	ug/L	EPA 8260B	7/1/13	103	100	2.93	70.0-130	25
p-isopropyltoluene														
	85306-01	<0.50	40.0	40.0	41.2	39.9	ug/L	EPA 8260B	7/1/13	103	99.7	3.33	70.0-130	25
sec-butylbenzene														
	85306-01	<0.50	40.0	40.0	40.7	39.6	ug/L	EPA 8260B	7/1/13	102	99.1	2.55	70.0-130	25
t-1,2-Dichloroethene														
	85306-01	<5.0	40.0	40.0	38.4	37.4	ug/L	EPA 8260B	7/1/13	95.9	93.6	2.36	70.0-130	25

Report Number : 85265

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 07/02/2013

Project Name : **23rd Avenue Partners**

Project Number : **CB018R**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
t-1,3-Dichloropropene														
	85306-01	<5.0	40.0	40.0	40.6	40.0	ug/L	EPA 8260B	7/1/13	101	100	1.26	70.0-130	25
tert-butylbenzene														
	85306-01	<0.50	40.0	40.0	40.4	39.1	ug/L	EPA 8260B	7/1/13	101	97.8	3.27	70.0-130	25

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

Report Number : 85265

QC Report : Laboratory Control Sample (LCS)

Date : 07/02/2013

Project Name : **23rd Avenue Partners**

Project Number : **CB018R**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
1,1,1,2-Tetrachloroethane	39.9	ug/L	EPA 8260B	7/1/13	104	70.0-130
1,1,1-Trichloroethane	39.9	ug/L	EPA 8260B	7/1/13	99.8	70.0-130
1,1,2,2-Tetrachloroethane	39.9	ug/L	EPA 8260B	7/1/13	91.8	70.0-130
1,1,2-Trichloroethane	39.9	ug/L	EPA 8260B	7/1/13	98.6	70.0-130
1,1-Dichloroethane	39.9	ug/L	EPA 8260B	7/1/13	95.1	70.0-130
1,1-Dichloroethene	39.9	ug/L	EPA 8260B	7/1/13	94.3	70.0-130
1,1-Dichloropropene	39.9	ug/L	EPA 8260B	7/1/13	96.3	70.0-130
1,2,3-Trichlorobenzene	39.9	ug/L	EPA 8260B	7/1/13	95.8	70.0-130
1,2,3-Trichloropropane	39.9	ug/L	EPA 8260B	7/1/13	101	70.0-130
1,2,4-Trichlorobenzene	39.9	ug/L	EPA 8260B	7/1/13	96.4	70.0-130
1,2,4-Trimethylbenzene	39.9	ug/L	EPA 8260B	7/1/13	101	70.0-130
1,2-Dibromoethane	40.2	ug/L	EPA 8260B	7/1/13	99.6	70.0-130
1,2-Dichlorobenzene	39.9	ug/L	EPA 8260B	7/1/13	99.4	70.0-130
1,2-Dichloroethane	39.9	ug/L	EPA 8260B	7/1/13	99.0	70.0-130
1,2-Dichloropropane	39.9	ug/L	EPA 8260B	7/1/13	95.9	70.0-130
1,2-dibromo-3-chloropropane	39.9	ug/L	EPA 8260B	7/1/13	91.4	70.0-130
1,3,5-Trimethylbenzene	39.9	ug/L	EPA 8260B	7/1/13	100	70.0-130
1,3-Dichlorobenzene	39.9	ug/L	EPA 8260B	7/1/13	99.5	70.0-130
1,3-Dichloropropane	39.9	ug/L	EPA 8260B	7/1/13	96.5	70.0-130
1,4-Dichlorobenzene	39.9	ug/L	EPA 8260B	7/1/13	98.6	70.0-130
2+4-Chlorotoluene	79.8	ug/L	EPA 8260B	7/1/13	100	70.0-130
2,2-Dichloropropane	39.9	ug/L	EPA 8260B	7/1/13	95.5	70.0-130
Benzene	39.9	ug/L	EPA 8260B	7/1/13	96.5	70.0-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : **23rd Avenue Partners**

Project Number : **CB018R**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Bromobenzene	39.9	ug/L	EPA 8260B	7/1/13	101	70.0-130
Bromochloromethane	39.9	ug/L	EPA 8260B	7/1/13	96.0	70.0-130
Bromodichloromethane	39.9	ug/L	EPA 8260B	7/1/13	100	70.0-130
Bromoform	39.9	ug/L	EPA 8260B	7/1/13	101	70.0-135
Bromomethane	200	ug/L	EPA 8260B	7/1/13	85.5	50.0-135
Carbon Tetrachloride	39.9	ug/L	EPA 8260B	7/1/13	100	70.0-130
Chlorobenzene	39.9	ug/L	EPA 8260B	7/1/13	99.4	70.0-130
Chloroethane	39.9	ug/L	EPA 8260B	7/1/13	94.5	70.0-130
Chloroform	39.9	ug/L	EPA 8260B	7/1/13	97.7	70.0-130
Chloromethane	39.9	ug/L	EPA 8260B	7/1/13	91.4	70.0-130
Dibromochloromethane	39.9	ug/L	EPA 8260B	7/1/13	101	70.0-130
Dibromomethane	39.9	ug/L	EPA 8260B	7/1/13	95.5	70.0-130
Dichlorodifluoromethane	39.9	ug/L	EPA 8260B	7/1/13	94.9	65.0-140
Ethylbenzene	39.9	ug/L	EPA 8260B	7/1/13	103	70.0-130
Hexachlorobutadiene	39.9	ug/L	EPA 8260B	7/1/13	90.5	70.0-130
Isopropyl benzene	39.9	ug/L	EPA 8260B	7/1/13	99.3	70.0-130
Methyl-t-butyl ether	39.8	ug/L	EPA 8260B	7/1/13	93.8	70.0-130
Methylene Chloride	39.9	ug/L	EPA 8260B	7/1/13	93.0	70.0-130
Naphthalene	39.9	ug/L	EPA 8260B	7/1/13	100	70.0-130
O-Xylene	39.9	ug/L	EPA 8260B	7/1/13	102	70.0-130
P + M Xylene	39.9	ug/L	EPA 8260B	7/1/13	100	70.0-130
Styrene	39.9	ug/L	EPA 8260B	7/1/13	105	70.0-130
TPH as Gasoline	506	ug/L	EPA 8260B	7/1/13	98.5	70.0-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

QC Report : Laboratory Control Sample (LCS)

Project Name : **23rd Avenue Partners**

Project Number : **CB018R**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Tetrachloroethene	39.9	ug/L	EPA 8260B	7/1/13	96.5	70.0-130
Toluene	39.9	ug/L	EPA 8260B	7/1/13	98.3	70.0-130
Trichloroethene	39.9	ug/L	EPA 8260B	7/1/13	105	70.0-130
Trichlorofluoromethane	39.9	ug/L	EPA 8260B	7/1/13	97.8	70.0-130
Vinyl Chloride	39.9	ug/L	EPA 8260B	7/1/13	93.8	70.0-130
c-1,3-Dichloropropene	39.9	ug/L	EPA 8260B	7/1/13	99.7	70.0-130
cis-1,2-Dichloroethene	39.9	ug/L	EPA 8260B	7/1/13	94.2	70.0-130
n-butylbenzene	39.9	ug/L	EPA 8260B	7/1/13	98.1	70.0-130
n-propylbenzene	39.9	ug/L	EPA 8260B	7/1/13	100	70.0-130
p-isopropyltoluene	39.9	ug/L	EPA 8260B	7/1/13	99.1	70.0-130
sec-butylbenzene	39.9	ug/L	EPA 8260B	7/1/13	99.4	70.0-130
t-1,2-Dichloroethene	39.9	ug/L	EPA 8260B	7/1/13	93.5	70.0-130
t-1,3-Dichloropropene	39.9	ug/L	EPA 8260B	7/1/13	100	70.0-130
tert-butylbenzene	39.9	ug/L	EPA 8260B	7/1/13	98.6	70.0-130

KIFF ANALYTICAL, LLC

2795 2nd Street, Suite 300 Davis, CA 95618 530-297-4800

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95618
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 85265

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Olivia Jacobs	California EDF Report? ☒ Yes ☐ No
Company / Address: Clearwater Group 229 Tewksbury Ave. Point Richmond, CA	Sampling Company Log Code: CWGO
Phone Number: 510-307-9943	Global ID: T0600177455
Fax Number: 510-232-2823	EDF Deliverable To (Email Address): gfisco@clearwatergroup.com
Project #: CB018R / P.O. #:	Bill to: Clearwater Group
Project Name: 23rd Avenue Partners	Sampler Signature: Adam Feeney
Project Address: 1125 Miller Avenue Oakland, CA	

Sample Designation	Sampling: Date	Sampling: Time	Container: 40 ml VOA	Container: Sleeve	Container: Poly	Container: Glass	Container: Tedlar	Container:	Preservative: HCl	Preservative: HNO_3	Preservative: None	Preservative:	Preservative:	Matrix: Water	Matrix: Soil	Matrix: Air	MTBE @ 0.5 ppb (EPA 8260B)	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (MTBE, DIPE, ETBE, TAME, TBA) (EPA 8260B)	7 Oxygenates (5 oxy + EtOH, MeOH) (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB) (EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M)	TPH as Motor Oil (EPA 8015M)	CAM 17 Metals (EPA 200.7 / 6010)	5 Waste Oil Metals (Cd,Cr,Ni,Pb,Zn) (EPA 200.7 / 6010)	Mercury (EPA 245.1 / 7470 / 7471)	Total Lead (EPA 200.7 / 6010)	W.E.T. Lead (STLC)						TAT	For Lab Use Only
																	circle method																							
MW-3	6/26/13	1140	5						X					X			X	X	X					X		X													01
MW-1	6/26/13	1040	5						X					X			X	X	X					X		X													02
MW-2	6/26/13	1110	5						X					X			X	X	X					X		X													03

TAT: ☐ 12 hr ☐ 24 hr ☐ 48hr ☐ 72hr ☒ 1 wk

Relinquished by:	Date	Time	Received by:
Adam Feeney / Confluence	6/26/13	1610	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by Laboratory:
	062613	1610	Kiff Analytical LLC

Remarks:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
					Yes / No

Distribution: White - Lab; Pink - Originator
Rev: 031308

KIFF Analytical LLC

SAMPLE RECEIPT CHECKLIST

SRG #: 85265	**TAT:** ☒ Standard	☐ Rush	☐ Split	☐ None			
Sample Receipt	**Initials/Date:** TJB 062613	**Storage Time:** 1610	**Sample Login**	**Initials/Date:** MAS/062713			
Method of Receipt:	☐ Courier	☒ Over-the-counter	☐ Shipped	Shipping Custody Seals	☒ N/A	☐ Intact	☐ Broken

Temp °C 2.2	☐ N/A	Therm ID IR-3	Time 1603	Coolant present	☒ Yes	☐ No	☐ Water	☐ Temp Excursion

Chain-of-Custody:	**Yes**	**No**
Is COC present?	X	
Is COC signed by relinquisher?	X	
Is COC dated by relinquisher?	X	
Is the sampler's name on the COC?	X	
Are there analyses or hold for all samples?	X	

Documented on	**COC**	**Labels**	**Discrepancies:**
Sample ID	X	X	
Project ID	X	X	
Sample Date	X	X	
Sample Time	X	X	
Does COC match project history?	☐ N/A	☒ Yes	☐ No

Samples:	**N/A**	**Yes**	**No**
Are sample custody seals intact?	X		
Are sample containers intact?		X	
Is preservation documented?		X	
In-house Analysis:	**N/A**	**Yes**	**No**
Are preservatives acceptable?		X	
Are samples within holding time?		X	
Are sample container types correct?		X	
Is there adequate sample volume?		X	

Comments:

Receipt Details:

Matrix	Container Type	# of Containers
WA	VOA	15

CS Required: ☐

Proceed With Analysis: ☐ YES ☐ NO Init/Date:
Client Communication:

ATTACHMENT E

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A GEO_WELL FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	GEO_WELL
Report Title:	Groundwater Monitoring - 2Q13
Facility Global ID:	T0600177455
Facility Name:	23RD AVENUE PARTNERS
File Name:	GEO_WELL.zip
Organization Name:	Clearwater Group
Username:	CLEARWATERGROUP
IP Address:	173.13.151.1
Submittal Date/Time:	7/24/2013 9:37:45 AM
Confirmation Number:	4616764128

STATE WATER RESOURCES CONTROL BOARD

GEOTRACKER ESI

UPLOADING A EDF FILE

SUCCESS

Processing is complete. No errors were found!
Your file has been successfully submitted!

Submittal Type:	EDF
Report Title:	Groundwater Monitoring - 2Q13 (85265)
Report Type:	Monitoring Report - Quarterly
Facility Global ID:	T0600177455
Facility Name:	23RD AVENUE PARTNERS
File Name:	EDF_23rdAvenuePartners_85265.ZIP
Organization Name:	Clearwater Group
Username:	CLEARWATERGROUP
IP Address:	173.13.151.1
Submittal Date/Time:	7/24/2013 10:13:36 AM
Confirmation Number:	9630631923

VIEW QC REPORT

VIEW DETECTIONS REPORT