Edd Clark & Associates, Inc.
Environmental Consultants
Serving the North Bay for 20 Years

December 31, 2013

Dilan Roe, P.E.
Program Manager - Land Use & Local Oversight Program
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502

Re: Report-December 2011 Groundwater Monitoring Event
Salles's Paint & Auto Body
1049 9th Avenue
Oakland, CA
RO #0000308

I declare under penalty of perjury that to the best of my knowledge the information and/or recommendations contained in the attached is/are true and correct.

Sincerely,

Edd Clark, President

P.O. Box 3039, Rohnert Park, CA 94927-3039
Telephone (707) 792-9500
Fax (707) 792-9504
corpmail@ecaenviron.com

Edd Clark & Associates, Inc.
Environmental Consultants
Serving the North Bay for 20 Years

January 17, 2012
Job No.: 0459,001.03

Mr. Dick Cochran
C&C Property Management
499 Embarcadero, Post 3, Box 16
Oakland, CA 94606

Report: December 2011 Groundwater Monitoring Event
Salle's Paint & Auto Body
1049 9th Avenue
Oakland, CA
Fuel Leak Case No.: RO0000308

Dear Mr. Cochran:

Please accept this as Edd Clark & Associates, Inc.'s (EC&A's) report on December 2011 groundwater monitoring activities at 1049 9th Avenue (site) in Oakland, California. The site location is shown on Figure1; general site features are shown on Figure 2. Groundwater monitoring was conducted at the site at the request of the Alameda County Environmental Health Services Agency (ACEHSA). EC&A's July 9, 2003, *Workplan: Soil and Groundwater Investigation* proposed advancing four exploratory soil borings to delineate the lateral and vertical extent of soil and groundwater impacted by fuel hydrocarbons (FHCs) in the area formerly occupied by an underground storage tank (UST) for waste oil, and conducting a Preferential Pathway Survey to locate potential migration pathways and conduits and evaluate the probability of the FHC plume encountering preferential pathways and conduits that could spread contamination. Following its review of the July 2003 workplan, the ACEHSA, in its letter dated November 14, 2011, required that an additional exploratory boring be advanced downgradient of sample TS, and the three site monitoring wells be redeveloped and sampled.

December 2011 groundwater monitoring activities included redeveloping monitoring wells MW-1, MW-2, MW-3; measuring depth to water (DTW) in, and collecting groundwater samples for chemical analysis from, MW-1, MW-2 and MW-3; calculating the groundwater flow direction and gradient; evaluating the results of the calculations and sample analyses; and preparing this report. An electronic copy of this report will be provided to the ACEHSA and electronically submitted to the State GeoTracker Internet Database (GeoTracker).

Monitoring Well Redevelopment
On December 6, 2011, EC&A personnel redeveloped MW-1, MW-2 and MW-3 by surging with a surge block and pumping with a submersible pump. Development continued until the water was relatively clear and visually free of sediment, and until groundwater parameters (pH, electric conductivity [EC], temperature [Temp] and turbidity) had generally stabilized. The wells were slow to recharge during development, and were therefore surged and purged several times during the development process. Well development parameters are summarized in the table below.

Well ID	Gallons Added	Sediment Removed (ft)	Total Gallons Removed	Initial/Final Electrical Conductivity	Initial/Final Temperature	Initial/Final pH	Initial/Final Turbidity (NTUs)
MW-1	0	-0.60	17.6	588.1 / 685.5	62.6 / 68.6	7.43 / 6.90	404 / 84
MW-2	0	0.03	17.6	561.9 / 628.3	68.4 / 67.8	7.11 / 7.45	311 / 91
MW-3	0	0.79	16.5	682.7 / 630.9	67.1 / 67.2	6.57 / 7.48	241 / 151

Water-level Measurements

On December 8, 2011, EC&A personnel measured groundwater levels in MW-1, MW-2 and MW-3. DTW below the top of well casing (TOC) in each well was measured to the nearest 0.01 foot (ft) with a water-level meter, which was cleaned and rinsed prior to taking measurements in each well. The DTW was measured and recorded after the well caps were removed and groundwater in the wells was allowed to equilibrate for a minimum of 15 minutes. DTW in MW-1, MW-2 and MW-3 was 10.36 ft, 10.11 ft and 10.96 ft, respectively, and the groundwater flow direction and gradient were calculated to be S19°E and 0.027 ft/ft, respectively. The December 8, 2011, flow direction and gradient are presented on Figure 3.

Current and historical groundwater elevation data are summarized in Table 1. Groundwater Field Logs containing DTW measurements are presented in Appendix A. DTW data will be electronically submitted to GeoTracker.

Monitoring Well Groundwater Sampling

On December 8, 2011, EC&A personnel collected groundwater samples from MW-1, MW-2 and MW-3. Prior to sample collection, the wells were purged of approximately three well casing volumes of groundwater using a separate, clean disposable bailer for each well. During purging of each well, the water was inspected for the presence of free-floating product. Free-floating product was not observed on the purged water. Groundwater pH, EC and Temp were measured during purging at intervals of approximately one well-casing volume. Purge volumes and groundwater-quality parameters are recorded on the Field Logs presented in Appendix A.

Samples were collected from the wells after groundwater parameters generally stabilized. The wells were slow to recharge, and therefore did not reach 80% of the initially recorded water level before they were sampled. The samples were collected in new, single-sample, disposable bailers fitted with disposable, bottom-emptying devices to minimize water degassing. The samples were transferred from the bailers to properly labeled, laboratory-supplied, sterile sample containers, logged on a chain-of-custody form, placed on ice and transported to McCampbell Analytical, Inc. (MAI) for the required chemical analyses. MAI is a state-certified laboratory in Pittsburg, California.

Equipment Cleaning and Waste Containment

Well redevelopment and sampling equipment was cleaned onsite with a soap-and-water solution and double rinsed with tap water. Decontamination water and monitoring well purge water were placed in properly labeled and covered DOT 17H 55-gallon drums for temporary onsite storage.

Monitoring Well Sample Analyses and Results

All groundwater samples collected for the December 2011 event were analyzed for total petroleum hydrocarbons (TPH) as gasoline (g) and TPH as diesel (d) by Methods SW015Bm/8015B; petroleum

oil and grease (O&G) by Method SW5520B/F; volatile organic compounds (VOCs), basic target list including benzene, toluene, ethylbenzene and xylenes (BTEX), by Method SW8260B; and for semi-volatile organic compounds (SVOCs) by Method SW8270C. The results of the sample analyses are summarized on the table below and presented in detail along with historical analytical results on Table 2. A copy of the analytical laboratory report is presented in Appendix B. Groundwater results for this event will be electronically submitted to GeoTracker.

Groundwater Analytical Results - December 8, 2011

Well ID	TPHg	TPHd	O&G	B	T	E	X	MTBE	VOCs	SVOCs
	µg/l									
MW-1	**63**	**87**	<5000	<0.5	<0.5	<0.5	<0.5	<0.5	**0.57** (1)	<10 to <50
MW-2	<50	<50	<5000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 to <500	<10 to <50
MW-3	<50	<50	<5000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5 to <500	<10 to <50
ESL	100	100	100	1.0	40	30	20	5.0	----	---

µg/l: Micrograms per liter <: Not detected at or above the indicated reporting limit (1): Isopropylbenzene
ESL: SFBRWQCB's Environmental Screening Levels; revised May 2008, for residential soils where groundwater is a potential drinking water resource.

Discussion

The groundwater gradient at the site has been calculated five times since September 2000. One of the gradients was to the southwest, the other four were to the southeast, ranging from S19°E to S35°E (Table 1 and Figure 3).

In the ten years since groundwater monitoring was last conducted at the site, natural attenuation has removed all BTEX compounds in MW-1 groundwater. Benzene was last detected in MW-1 groundwater in May 2001. No FHCs have been detected in MW-2 and MW-3.

TPHg and TPHd concentrations in MW-1 have declined to below their Environmental Screening Level (ESL) of 100 µg/l (Table 2). The TPHd range hydrocarbons reported from MW-1 were flagged by the analytical laboratories as having chromatograms that are not typical of diesel; these hydrocarbons probably are weathered gasoline. Figure 4 shows the distribution of TPHg in groundwater near the site. Figure 5 is a time-series graph of FHC concentrations in MW-1.

Two VOCs, chlorobenzene and isopropylbenzene, have been detected at trace concentrations (0.57 µg/l to 1.1 µg/l) in MW-1 (Table 2). Isopropylbenzene is a common constituent of gasoline; no ESL has been established for this compound. Chlorobenzene is used in the manufacture of certain pesticides, as an intermediate in the production of commodities such as herbicides, dyestuffs, and rubber, and as a high-boiling solvent in many industrial applications. The ESL for chlorobenzene is 25 µg/l.

Recommendations

EC&A recommends conducting another groundwater sampling event for MW-1 to confirm that FHC concentrations remain below their respective ESLs. If such is the case, EC&A will recommend that the site be considered for closure.

Schedule

Because all FHC concentrations were below their ESLs, EC&A has placed implementation of the July 2003 Workplan on hold pending review of this Report by the ACEHSA. The next groundwater monitoring event is scheduled for March 2012.

Limitations

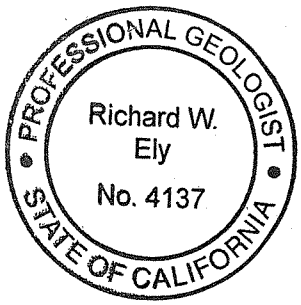
The conclusions presented in this report are professional opinions based on the data presented in this report, including data generated by others. Whereas EC&A does not guarantee the accuracy of information supplied by third parties, we reserve the right to use this information in formulating our professional opinions. They are intended only for the indicated purpose and project site. Conclusions and recommendations presented herein apply to site conditions existing at the time of our study. Changes in the conditions of the site property can occur with time because of natural processes or the works of man on the site or adjacent properties. Changes in applicable standards can also occur as the result of legislation or from the broadening of knowledge. Accordingly, the findings of this report may be invalidated, wholly or in part, by changes beyond our control.

Thank you for allowing EC&A to provide environmental services to you on this project. Please call Richard Ely, Project Manager, at (707) 792-9500 if you have any questions.

Sincerely,

Kevin L. Coker, REA
Project Scientist

Richard Ely, PG #4137
Senior Project Geologist



Attachments

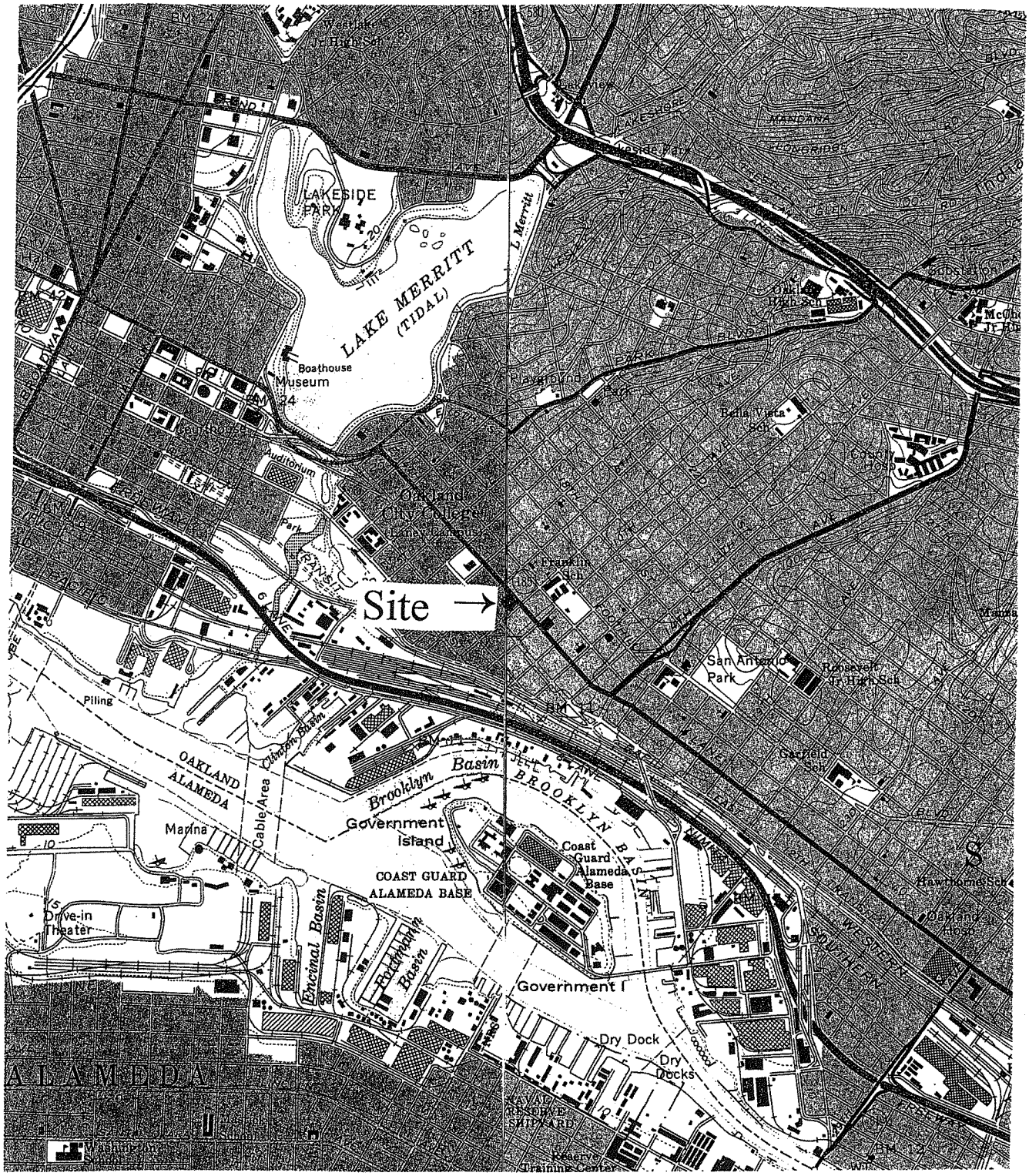
Figure 1 - Site Location Map
Figure 2 - Site Plan
Figure 3 - Groundwater Elevation Map, 08 December 2011
Figure 4 - TPHg Concentration in Groundwater, 08 December 2011
Figure 5 - TPHg, TPHd & Benzene Concentrations & Groundwater Elevation vs Time - MW-1

Table 1 - Groundwater Elevation Data
Table 2 - Analytical Results - Groundwater Samples from Monitoring Wells

Appendix A - Groundwater Field Logs
Appendix B - Analytical Laboratory Report

cc: Barbara J. Jakub, Alameda County Environmental Health Services Agency (electronic copy)
Leroy Griffin, Oakland Fire Department

0459\QMR Dec11



From USGS 1:24,000 Topographic map series, Oakland West & East Quadrangles

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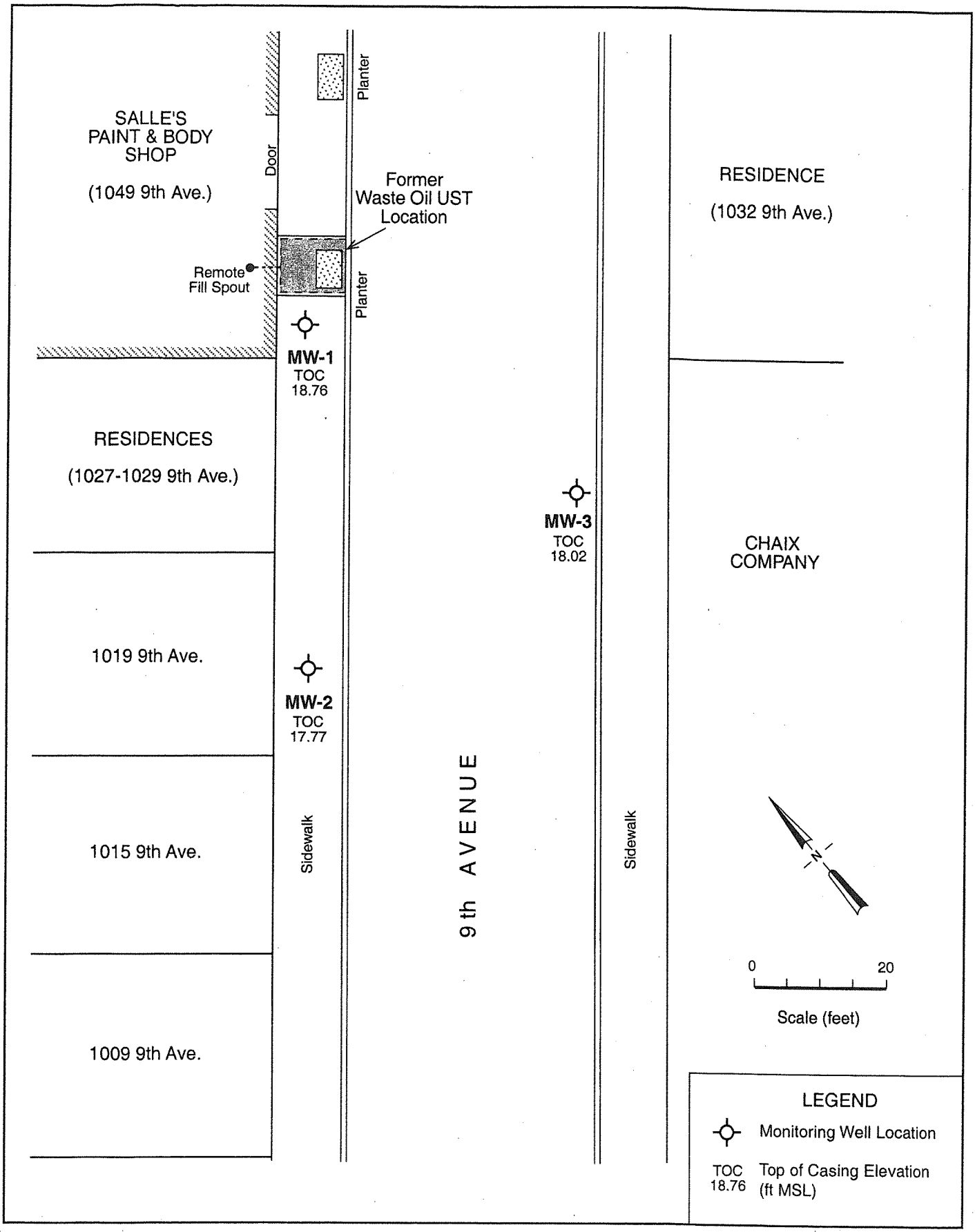
SITE LOCATION MAP

1049 9th Avenue
Oakland, California

PLATE 1

JOB NUMBER	REVIEWED BY	DATE	REVISED	SHEET NO.
0459, 001.03	EC&A, Richard Ely	June 2003		1 of 1

(TRACE #383/RG/24Jun03)



(TRACE #383/RG/20Dec11)

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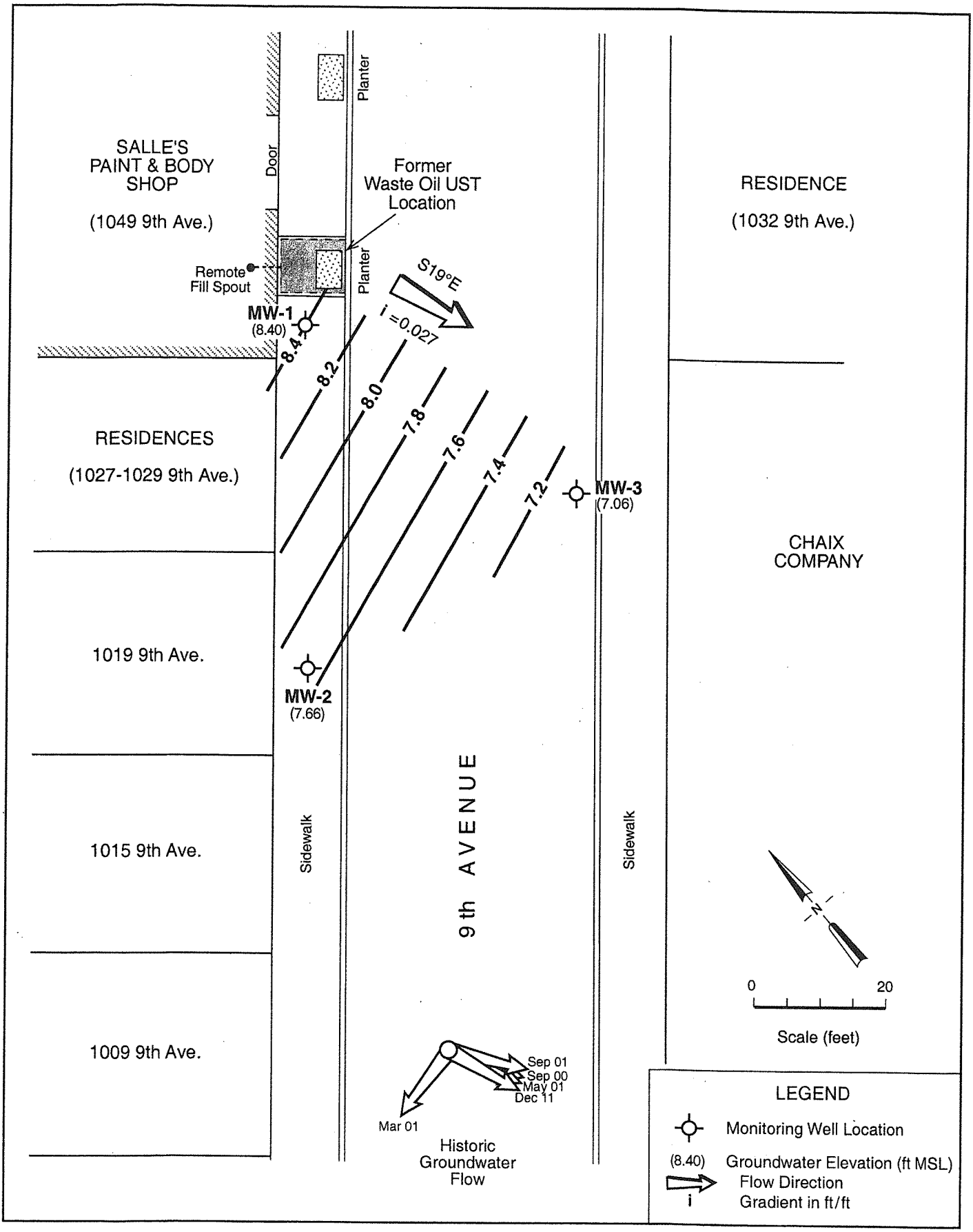
SITE PLAN
1049 9th Avenue
Oakland, California

FIGURE
2

JOB NUMBER	REVIEWED BY	DATE	REVISED	SHEET NO.
0459, 001.03	EC&A, Richard Ely	October 2000	December 2011	1 of 1



(TRACE #383/RG/20Dec11)

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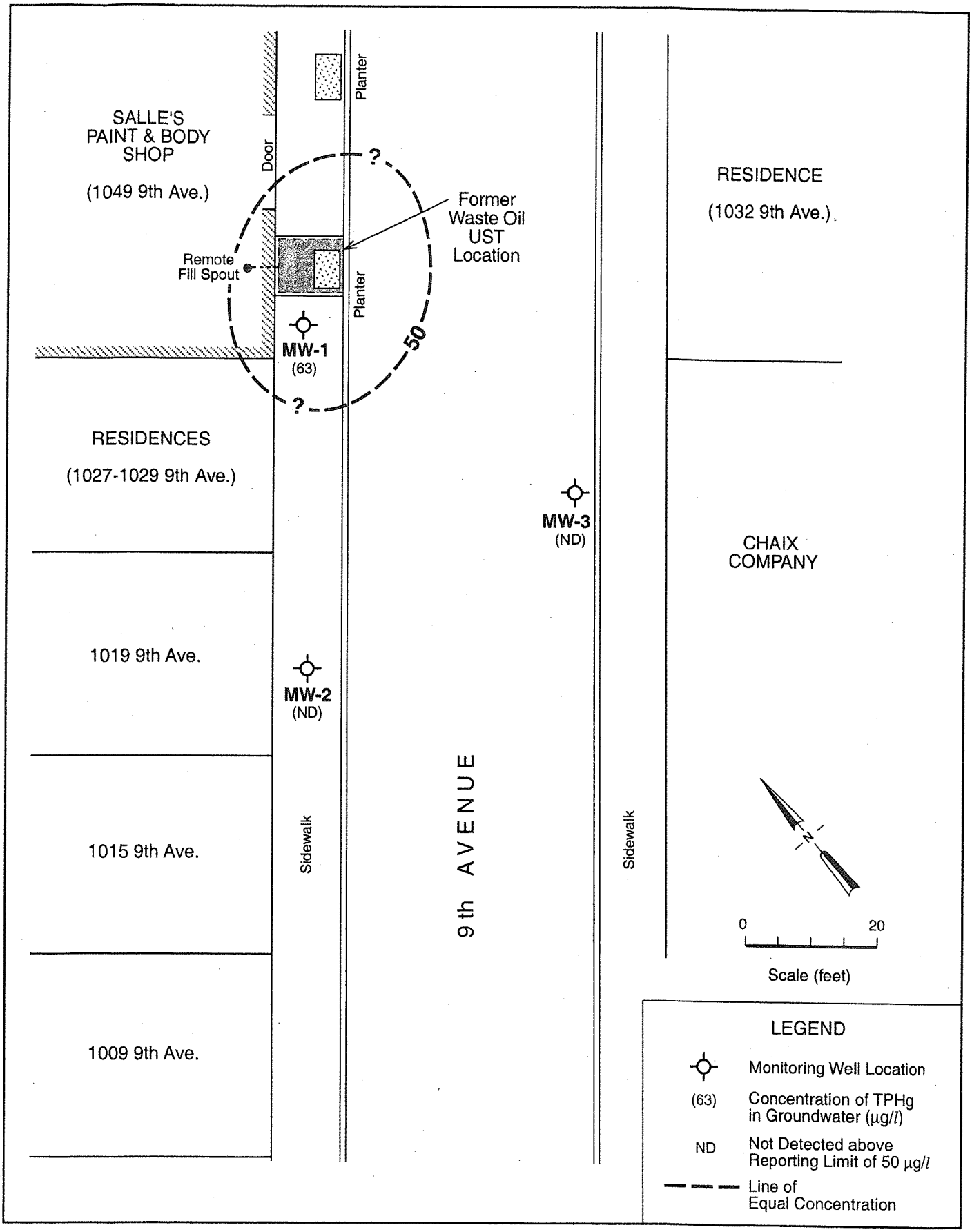
GROUNDWATER ELEVATION MAP,
08 December 2011
1049 9th Avenue
Oakland, California

FIGURE
3

JOB NUMBER	REVIEWED BY	DATE	REVISED	SHEET NO.
0459, 001.03	EC&A, Richard Ely	April 2001	December 2011	1 of 1



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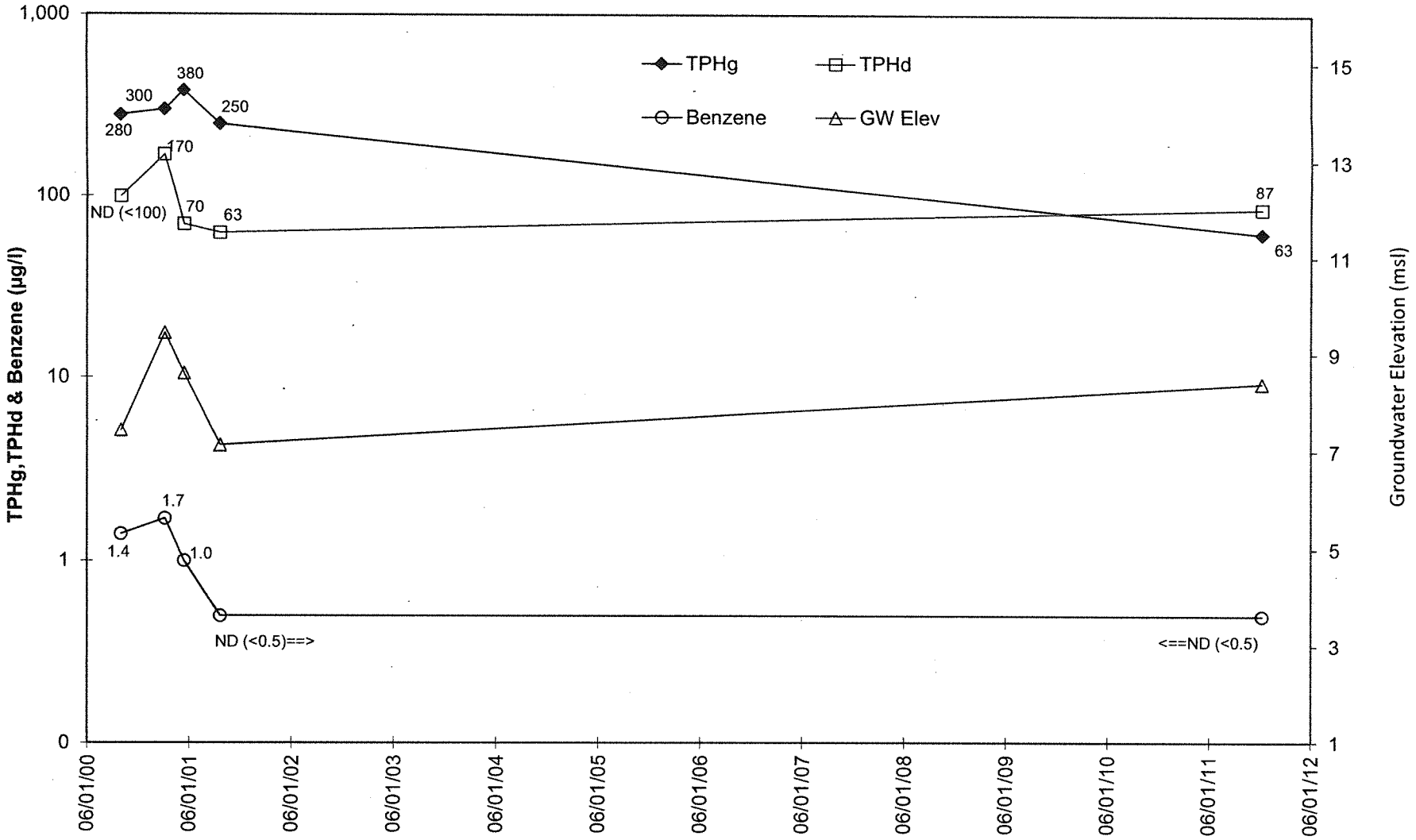
TPHg CONCENTRATION IN GROUNDWATER,
08 December 2011
1049 9th Avenue
Oakland, California

FIGURE
4

JOB NUMBER	REVIEWED BY	DATE	REVISED	SHEET NO.
0459, 001.03	EC&A, Richard Ely	October 2000	December 2011	1 of 1

(TRACE #383/RG/20Dec11)



Edd Clark & Associates, Inc.	TPHg, TPHd & BENZENE CONCENTRATIONS & GROUNDWATER ELEVATION vs TIME - MW-1	FIGURE
Edd Clark & Associates, Inc. 320 Professional Center Drive, Suite #215 Rohnert Park, California	Salle's Auto Body 1049 9th Avenue Oakland, California	5
Drawn By: KLC / File Name: 0459.FHCs-GW	Job Number: 0459,001.03	Date: 12/20/11

Table 1. Groundwater Elevation Data
1049 9th Avenue, Oakland, California

Sample ID	Date	TOC Elevation feet	DTW feet	Groundwater Elevation feet
MW-1	09/29/00	18.76	11.35	7.41
MW-2		17.77	10.92	6.85
MW-3		18.02	12.09	5.93
Gradient: S30°E, 0.033 ft/ft				
MW-1	03/05/01	18.76	9.35	9.41
MW-2		17.77	9.13	8.64
MW-3		18.02	8.54	9.48
Gradient: S77°W, 0.019 ft/ft				
MW-1	05/31/01	18.76	10.18	8.58
MW-2		17.77	9.83	7.94
MW-3		18.02	10.91	7.11
Gradient: S24°E, 0.031 ft/ft				
MW-1	09/18/01	18.76	11.65	7.11
MW-2		17.77	11.13	6.64
MW-3		18.02	12.50	5.52
Gradient: S35°E, 0.031 ft/ft				
MW-1	**12/08/11**	**18.76**	**10.36**	**8.40**
MW-2		**17.77**	**10.11**	**7.66**
MW-3		**18.02**	**10.96**	**7.06**
Gradient: S19°E, 0.027 ft/ft				

September 2000 through September 2001 data from Harris & Lee's October 25, 2000, *Soil and Groundwater Investigation Report. Table 1 Groundwater Elevations*. December 2011 data by Edd Clark & Associates, Inc.

TOC: Top of casing elevation measured relative to mean sea level (msl)
DTW: Depth to water from TOC

Table 2. Analytical Results - Groundwater Samples from Monitoring Wells
1049 9th Avenue, Oakland, California

Sample ID	Date	TPHg µg/l	TPHd µg/l	O&G µg/l	Benzene µg/l	Toluene µg/l	Ethyl-benzene µg/l	Xylenes µg/l	MTBE µg/l	VOCs µg/l	SVOCs µg/l
MW-1	09/29/00	280	ND<50	ND<500	1.4	ND<0.5	2.5	4.5	ND<2.5	1.1 (1)	ND
	03/05/01	300	170 (2)	NA	1.7	2.1	1.4	2.6	ND<2.5	ND<0.5	NA
	05/31/01	380	70 (2)	NA	1.0	4.5	3.5	9.8	ND<2.5	ND<0.5	NA
	09/18/01	250	63	NA	ND<0.5	3.1	3.3	3.4	ND<2.5	0.82 (1)	NA
	12/08/11 (3) ji	**63 d7**	**87 e2**	**ND<5000**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**0.57 (4)**	**ND<10 to <50**
MW-2	09/29/00	ND<50	ND<50	ND<500	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<2.5	ND<0.5	ND
	03/05/01	ND<50	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<2.5	ND<0.5	NA
	12/08/11 (3) ji	**ND<50**	**ND<50**	**ND<5000**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5 to <500**	**ND<10 to <50**
MW-3	09/29/00	ND<50	ND<50	ND<500	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<2.5	ND<0.5	ND
	03/05/01	ND<50	ND<50	NA	ND<0.5	ND<0.5	ND<0.5	ND<1.5	ND<2.5	ND<0.5	NA
	12/08/11 (3) ji	**ND<50**	**ND<50**	**ND<5000**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5 to <500**	**ND<10 to <50**
ESL	May 2008	100	100	100	1.0	40	30	20	5.0	25 (1)	---

Data from September 2000 through September 2001 from Harris & Lee's October 25, 2000, *Soil and Groundwater Investigation Report, Table 2 Groundwater Sample Analytical Results.* December 2011 data by Edd Clark & Associates, Inc.

TPHg: Total petroleum hydrocarbons as gasoline
TPHd: Total petroleum hydrocarbons as diesel
O&G: Oil and grease
MTBE: Methyl tert-butyl ether
VOCs: Volatile organic compounds
SVOCs: Semi-volatile organic compounds
µg/l: Micrograms per liter
ND: Not detected above the respective reporting limit
NA: Not analyzed
ESL: SFBRWQCB Environmental Screening Level for shallow soils where groundwater is a potential drinking water resource, revised May 2008.
(1): Chlorobenzene; all other Method 8010 compounds were ND
(2): Analytical Sciences annotated the result as follows: "the chromatogram does not exhibit a chromatic pattern characteristic of diesel. Higher boiling point components of gasoline are present in the early boiling range for diesel."
(3): Samples collected on 12/08/11 also were analyzed for VOCs, basic target list including benzene, toluene, ethylbenzene and xylenes (BTEX), by Method SW8260B and for SVOCs by Method SW8270C. All results not reported above were ND.
(4): Isopropylbenzene; no ESL has been established for this compound
d7: Strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram
e2: Diesel range compounds are significant; no recognizable pattern
ji: Reporting limit raised for methylene chloride due to a suspected elevated concentration in the sample container

0459\table 2 MWs

Appendix A

Groundwater Field Logs

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WELL DEVELOPMENT FIELD LOG

☒ Monitoring Well	☐ Extraction Well	☐ Remediation Well	☐ Other:

Project No: 0459	Field point name: MW-1
Global ID: T0600102212	Well diameter: ☒ 2" ☐ 4 " ☐ 6" ☐ Other:
Project location: 1049 9th Ave Oakland Ca.	Pre-purge well depth from TOC: 20' ? 19.88 / Post-purge well depth from TOC: 19.28
Date: 12/6/11	Product level from TOC:
Time:	Water level from TOC: 10.35
Recorded by: Derrick Crayford	Screened interval: 5-20'
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 1-3 mph	Precip. in last 5 days: NO

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 9.53	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.6	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 17.6	Well volumes removed: 11

Time	Case Volumes/ Gallons	Appearance & Field Measurements
10:10	1 / 1.6	SHEEN: (none) low med high ODOR: none low (med) high Bluish
	2 / 3.2	EC: 588.1 Temp (°F): 62.6 NTU: Bluish Black pH: 7.43
10:20	3 / 4.8	EC: 591.3 Temp (°F): 64.8 NTU: 404 pH: 7.23
	4 / 6.4	EC: 633.4 Temp (°F): 67.8 NTU: 373 pH: 7.04
10:29	5 / 8.0	SHEEN: (none) low med high ODOR: none low (med) high
	6 / 9.6	EC: 678.4 Temp (°F): 68.5 NTU: 304 pH: 6.89
10:38	7 / 11.2	EC: 710.3 Temp (°F): 67.9 NTU: 192 pH: 7.16
	8 / 12.8	EC: 679.4 Temp (°F): 68.7 NTU: 131 pH: 7.03
12:50	9 / 14.4	EC: 694.5 Temp (°F): 68.4 NTU: 108 pH: 7.01
	10 / 16.0	SHEEN: (none) low med high ODOR: none low (med) high
1:30	/ 17.6	EC: 685.5 Temp (°F): 68.6 NTU: 84 pH: 6.90

Notes: Surge well 15 min Begin purging Bluish Black TWBS - HAS ODOR - W/ Recharge Rate of 1" per min @ 11 Gal well Dewaters H2O Begins Clearing @ 4.0 Gal Well Water Does not Totaly CLEAR HAS Foggy Like TWBS. Allowed Time for Recharge & Finish well Till meter READINGS Stablize Somewhat. Closed well using OLD well Cap & Lock

Water level after purging below TOC: 17.52			Approximate recharge rate: 1" per min		
☐ Bailer	Type:	Approx. GPM:	☒ Pump	Type:	Approx. GPM: 1.5-2

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WELL DEVELOPMENT FIELD LOG

☐ Monitoring Well	☐ Extraction Well	☐ Remediation Well	☐ Other:

Project No: 0459	Field point name: MW-2
Global ID: T0600102212	Well diameter: ☒ 2" ☐ 4 " ☐ 6" ☐ Other:
Project location: 1049 9th Ave Oakland Ca	Pre-purge well depth from TOC: 20? 19.86 / Post-purge well depth from TOC: 19.89
Date: 12/6/11	Product level from TOC:
Time:	Water level from TOC: 10.11
Recorded by: Derrick Crayford	Screened interval: 5-20
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 1-3mph	Precip. in last 5 days: NO

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 9.75	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.6	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 17.6	Well volumes removed: 11

Time	Case Volumes/ Gallons	Appearance & Field Measurements
9:50	1 / 1.6	SHEEN: (none) low med high ODOR: (none) low med high
	2 / 3.2	EC: 561.9 Temp (°F): 68.4 NTU: mi/kky pH: 7.11
	3 / 4.8	EC: 577.5 Temp (°F): 69.5 NTU: Milky Brown pH: 7.01
10:05	4 / 6.4	EC: 640.4 Temp (°F): 68.1 NTU: " " Brown pH: 7.19
	5 / 8.0	SHEEN: none low med high ODOR: none low med high
	6 / 9.6	EC: 633.8 Temp (°F): 66.1 NTU: 311 pH: 7.44
11:50	7 / 11.2	EC: 630.1 Temp (°F): 67.0 NTU: 222 pH: 7.49
	8 / 12.8	EC: 637.9 Temp (°F): 66.6 NTU: 181 pH: 7.46
	9 / 14.4	EC: 631.4 Temp (°F): 67.3 NTU: 130 pH: 7.47
	10 / 16.0	SHEEN: (none) low med high ODOR: (none) low med high ~~7.45~~
12:30	/ 17.6	EC: 628.3 Temp (°F): 67.8 NTU: 91 pH: 7.45

Notes: Surge well 15 min Begin purging well med Brown Turb @ 1st 3 Gal Volumes well clears @ 8.5 w/Recharge Rate of 1in per min well Begins To Rewater @ 6.0 Allowed Recharge Time 15 min + Begin Purging. well Does not Clear up Totaly purged well Till water Readings Stable. Closed well using OLD well cap + Lock

Water level after purging below TOC: 19.62			Approximate recharge rate: 1" Per 45 Sec		
☐ Bailer	Type:	Approx. GPM:	☒ Pump	Type:	Approx. GPM:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

WELL DEVELOPMENT FIELD LOG

☒ Monitoring Well	☐ Extraction Well	☐ Remediation Well	☐ Other:

Project No: 0459	Field point name: MW-3
Global ID: T0600102212	Well diameter: ☒ 2" ☐ 4 " ☐ 6" ☐ Other:
Project location: 1049 9th Ave. Oakland Ca	Pre-purge well depth from TOC: 20' 19.20 / Post-purge well depth from TOC: 19.99
Date: 12/6/11	Product level from TOC:
Time:	Water level from TOC: 10.35
Recorded by: Derrick Crayford	Screened interval: 5-20
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 1-3 mph	Precip. in last 5 days: NO

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 8.85	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.5	
☐ 4" well = 0.66 gal/ft	☐ " well = gal/ft	Total gallons removed: 16.5	Well volumes removed: 11

Time	Case Volumes/ Gallons	Appearance & Field Measurements
9:20	1 / 1.5	SHEEN: (none) low med high ODOR: (none) low med high
	2 / 3.0	EC: 682.7 Temp (°F): 67.1 NTU: Brown pH: 6.57
9:30	3 / 4.5	EC: 682.5 Temp (°F): 67.1 NTU: Brown pH: 6.61
	4 / 6.0	EC: 671.0 Temp (°F): 64.7 NTU: Brown pH: 7.06
	5 / 7.5	SHEEN: (none) low med high ODOR: (none) low med high
10:50	6 / 9.0	EC: 669.4 Temp (°F): 64.8 NTU: foggy Brown pH: 7.23
	7 / 10.5	EC: 664.7 Temp (°F): 64.9 NTU: 241 pH: 7.25
	8 / 12.0	EC: 630.3 Temp (°F): 66.6 NTU: 186 pH: 7.40
	9 / 13.5	EC: 644.3 Temp (°F): 66.9 NTU: 172 pH: 7.44
	10 / 15.0	SHEEN: (none) low med high ODOR: (none) low med high
11:30	11 / 16.5	EC: 630.9 Temp (°F): 67.2 NTU: 151 pH: 7.48

Notes: After Surging well 15 min w/ 2" Surge Block Begin Purging - Heavy Light Brown H2O well Dewatered @ 5.5 Gal - W/ Recharge Rate of 1 in per 45 Sec'. Aloud well To Recharge 5-10 min - H2O Begins Clearing @ 7.5 ⅛ in of muddy Sandy Like mud Found on Bottom of Bucket. Well Has foggy Brown Tint @ finish. Closed well using old well Cap + Lock.

Water level after purging below TOC: 18.60			Approximate recharge rate: 1" per min		
☐ Bailer	Type:	Approx. GPM:	☒ Pump	Type:	Approx. GPM: 2

WATER LEVELS

Job Number: 0459

Address: 1049 9th Ave - Oakland Ca.

EC&A Personnel: D. Crawford

Date: 12/6/11

WELL ID	Depth to Product	Depth to Water	Time	Depth to Water	Time	Depth to Water	Time	Depth to Water	Time	Water Level Equilibrated?
	Total Dpt									
mw-1	19.88	10.35	8145							
mw-2	19.86	10.11	8:49							
mw-3	19.20	10.35	8151							

WATER LEVELS

Job Number: 0459

Address: 1049 9th Ave

EC&A Personnel: D.Crayton

Date:

WELL ID	Depth to Product	Depth to Water	Time	Depth to Water	Time	Depth to Water	Time	Depth to Water	Time	Water Level Equilibrated?
MW-1		10.39	8:15	10.36	8:42					
MW-2		10.13	8:12	10.11	8:37					
MW-3		10.99	8:10	10.96	8:33					

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FIELD LOG

☒ GROUNDWATER ☐ SURFACE WATER ☐ DOMESTIC WATER ☐ IRRIGATION WATER ☐ WELL DEVELOPMENT

Project No: 0459	Field point name: MW-1
Global ID: T0600102212	Well depth from TOC: 19.28
Project location: 1049 9th Ave	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 12/8/11	Product level from TOC:
Time:	Water level from TOC: 10.36
Recorded by: D. Crawford	Screened interval: 5-20
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 0	Precip. in last 5 days: NO

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft -8.92	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.5	
☐ 4" well = 0.66 gal/ft	" well = gal/ft	Total gallons removed: 4.5	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC (x1000)	Temp °F	Case Volumes/ Gallons	Appearance
9:50	6.51	583	19.6	1 / 1.5	CLR/Y Foggy Turbs Low odor no sheen
9:55	6.38	589	19.8	2 / 3.0	
10:00	6.53	586	19.5	3 / 4.5	
				/	

Notes: Hand Bailed well THROughout water column used Hanna stick meter for meter Readings.

Water level during purging below TOC: 14.78 | 80% of original water level below TOC: 7.13

Water level before sampling below TOC:

APPEARANCE OF SAMPLE: Time:

☒ Bailer:	Type:	GPM:	☐ Pump: ES-	Type: Submersible	GPM: 1 - 2
☐ Dedicated:	Type:	GPM:	DECONTAMINATION METHOD: Liquinox wash, double rinse		

SAMPLE ANALYSIS: ☐ TPHg ☐ BTEX ☐ 7 Oxygenates ☐ Lead Scavengers ☐ TPHd ☐ VOC's ☐ TPH ☐ Nitrates

EPA Method:

Other:

LABORATORY: ☐ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☐ GROUNDWATER ☐ SURFACE WATER ☐ DOMESTIC WATER ☐ IRRIGATION WATER ☐ WELL DEVELOPMENT

Project No: 0459	Field point name: MW-2
Global ID: T0600102212	Well depth from TOC: 19.89
Project location: 1045 9th Ave Oakland	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date: 12/8/11	Product level from TOC:
Time:	Water level from TOC: 10.11
Recorded by: D. Crawford	Screened interval: 5-20
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 0	Precip. in last 5 days: NO

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft 9.78	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume: 1.7	
☐ 4" well = 0.66 gal/ft	" well = gal/ft	Total gallons removed: 5.1	Well volumes removed: 3

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC (x1000)	Temp °F	Case Volumes/ Gallons	Appearance
9:25	7.10	557	18.8	1 / 1.7	Foggy Brown NO ODOR NO Sheen
9:29	7.07	582	19.5	2 / 3.4	↓ ↓ ↓
9:34	6.99	595	19.2	3 / 5.1	
				/	

Notes: Hand Bailed well using Hanna Stick meter pulled sample from throughout water column

Water level during purging below TOC: 16.95	80% of original water level below TOC: 6.13
Water level before sampling below TOC: 12.11	

APPEARANCE OF SAMPLE: Time:

☒ Bailer:	Type:	GPM:	☐ Pump: ES-	Type: Submersible	GPM: 1 - 2
☐ Dedicated:	Type:	GPM:	DECONTAMINATION METHOD: Liquinox wash, double rinse		

SAMPLE ANALYSIS: ☐ TPHg ☐ BTEX ☐ 7 Oxygenates ☐ Lead Scavengers ☐ TPHd ☐ VOC's ☐ TPH ☐ Nitrates

EPA Method:

Other:

LABORATORY: ☐ McCampbell Analytical ☐ Other:

EDD CLARK & ASSOCIATES, INC.
ENVIRONMENTAL CONSULTANTS

FIELD LOG

☐ GROUNDWATER ☐ SURFACE WATER ☐ DOMESTIC WATER ☐ IRRIGATION WATER ☐ WELL DEVELOPMENT

Project No: 0459	Field point name: MW-3
Global ID:	Well depth from TOC: 19.99
Project location:	Well diameter: ☒ 2" ☐ 4" ☐ 6" ☐ Other:
Date:	Product level from TOC:
Time:	Water level from TOC: 10.96
Recorded by:	Screened interval:
Purge time (duration):	Well elevation (TOC):

WEATHER

Wind: 0	Precip. in last 5 days: ND

VOLUME OF WATER TO BE REMOVED BEFORE SAMPLING

☒ 2" well = 0.17 gal/ft -9.03	☐ 6" well = 1.47 gal/ft	Gallons in 1 well volume:	
☐ 4" well = 0.66 gal/ft	" well = gal/ft	Total gallons removed:	Well volumes removed:

CALIBRATION

Parameter	Time	Calibration	Before Sampling	Time	After Sampling
EC:					

FIELD MEASUREMENTS

Time	pH	EC (x1000)	Temp °F	Case Volumes/ Gallons	Appearance
9:00	7.42	621	17.9 °C	1 / 1.5	Rinsed Tubes NO ODOR NO SHEEN
9:09	7.42	635	18.6	2 / 3.0	↓ ↓ ↓
9:14	7.59	623	18.4	3 / 4.5	
				/	

Notes: Hand Bailed well used Hanna Stick meter pulled Sample @ THROughout water Column

Water level during purging below TOC: 15.39	80% of original water level below TOC: 6.92
Water level before sampling below TOC: 11.41	

APPEARANCE OF SAMPLE: Time:

☐ Bailer:	Type:	GPM:	☐ Pump: ES-	Type: Submersible	GPM: 1 - 2
☐ Dedicated:	Type:	GPM:	DECONTAMINATION METHOD: Liquinox wash, double rinse		

SAMPLE ANALYSIS: ☐ TPHg ☐ BTEX ☐ 7 Oxygenates ☐ Lead Scavengers ☐ TPHd ☐ VOC's ☐ TPH ☐ Nitrates

EPA Method:

Other:

LABORATORY: ☐ McCampbell Analytical ☐ Other:

Appendix B

Analytical Laboratory Report

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Analytical Report

Edd Clark & Associates, Inc.	Client Project ID: #0459; 1049 9th Ave Oakland	Date Sampled: 12/08/11
320 Professional Center Ste. 215		Date Received: 12/09/11
	Client Contact: Derrick Crayford	Date Reported: 12/19/11
Rohnert Park, CA 94928	Client P.O.:	Date Completed: 12/16/11

WorkOrder: 1112318

December 19, 2011

Dear Derrick:

Enclosed within are:

1) The results of the **3** analyzed samples from your project: **#0459; 1049 9th Ave Oakland,**
2) QC data for the above samples, and
3) A copy of the chain of custody.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions or concerns, please feel free to give me a call. Thank you for choosing McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

The analytical results relate only to the items tested.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0459; 1049 9th Ave Oakland	Date Sampled: 12/08/11
320 Professional Center Ste. 215		Date Received: 12/09/11
	Client Contact: Derrick Crayford	Date Extracted 12/14/11
Rohnert Park, CA 94928	Client P.O.:	Date Analyzed 12/15/11

Petroleum Oil & Grease with Silica Gel Clean-Up*

Extraction method: SM5520B/F Analytical methods: SM5520B/F Work Order: 1112318

Lab ID	Client ID	Matrix	POG	DF	% SS	Comments
1112318-001E	MW-1	W	ND	1	N/A	
1112318-002E	MW-2	W	ND	1	N/A	
1112318-003E	MW-3	W	ND	1	N/A	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	5.0	mg/L
	S	NA	NA

* water samples and all TCLP & SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in mg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DF = dilution factor (may be raised to dilute target analyte or matrix interference).
%SS = Percent Recovery of Surrogate Standard
surrogate diluted out of range or not applicable to this sample.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
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Edd Clark & Associates, Inc.	Client Project ID: #0459; 1049 9th Ave Oakland	Date Sampled: 12/08/11
320 Professional Center Ste. 215		Date Received: 12/09/11
	Client Contact: Derrick Crayford	Date Extracted: 12/15/11
Rohnert Park, CA 94928	Client P.O.:	Date Analyzed: 12/15/11

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1112318

Lab ID	1112318-001C
Client ID	MW-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethanol	ND	1.0	50
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Methanol	ND	1.0	500	Isopropylbenzene	0.57	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND<1.0	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	122	%SS2:	111
%SS3:	99		

Comments: j1

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

j1) see attached narrative

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Edd Clark & Associates, Inc.	Client Project ID: #0459; 1049 9th Ave Oakland	Date Sampled: 12/08/11
320 Professional Center Ste. 215		Date Received: 12/09/11
	Client Contact: Derrick Crayford	Date Extracted: 12/15/11
Rohnert Park, CA 94928	Client P.O.:	Date Analyzed: 12/15/11

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1112318

Lab ID	1112318-002C
Client ID	MW-2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethanol	ND	1.0	50
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Methanol	ND	1.0	500	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND<1.0	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	122	%SS2:	115
%SS3:	86		

Comments: j1

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

j1) see attached narrative

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Edd Clark & Associates, Inc.	Client Project ID: #0459; 1049 9th Ave Oakland	Date Sampled: 12/08/11
		Date Received: 12/09/11
320 Professional Center Ste. 215	Client Contact: Derrick Crayford	Date Extracted: 12/15/11
Rohnert Park, CA 94928	Client P.O.:	Date Analyzed: 12/15/11

Volatiles Organics + Oxygenates by P&T and GC/MS (Basic Target List)*

Extraction Method: SW5030B | Analytical Method: SW8260B | Work Order: 1112318

Lab ID	1112318-003C
Client ID	MW-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acetone	ND	1.0	10	tert-Amyl methyl ether (TAME)	ND	1.0	0.5
Benzene	ND	1.0	0.5	Bromobenzene	ND	1.0	0.5
Bromochloromethane	ND	1.0	0.5	Bromodichloromethane	ND	1.0	0.5
Bromoform	ND	1.0	0.5	Bromomethane	ND	1.0	0.5
2-Butanone (MEK)	ND	1.0	2.0	t-Butyl alcohol (TBA)	ND	1.0	2.0
n-Butyl benzene	ND	1.0	0.5	sec-Butyl benzene	ND	1.0	0.5
tert-Butyl benzene	ND	1.0	0.5	Carbon Disulfide	ND	1.0	0.5
Carbon Tetrachloride	ND	1.0	0.5	Chlorobenzene	ND	1.0	0.5
Chloroethane	ND	1.0	0.5	Chloroform	ND	1.0	0.5
Chloromethane	ND	1.0	0.5	2-Chlorotoluene	ND	1.0	0.5
4-Chlorotoluene	ND	1.0	0.5	Dibromochloromethane	ND	1.0	0.5
1,2-Dibromo-3-chloropropane	ND	1.0	0.2	1,2-Dibromoethane (EDB)	ND	1.0	0.5
Dibromomethane	ND	1.0	0.5	1,2-Dichlorobenzene	ND	1.0	0.5
1,3-Dichlorobenzene	ND	1.0	0.5	1,4-Dichlorobenzene	ND	1.0	0.5
Dichlorodifluoromethane	ND	1.0	0.5	1,1-Dichloroethane	ND	1.0	0.5
1,2-Dichloroethane (1,2-DCA)	ND	1.0	0.5	1,1-Dichloroethene	ND	1.0	0.5
cis-1,2-Dichloroethene	ND	1.0	0.5	trans-1,2-Dichloroethene	ND	1.0	0.5
1,2-Dichloropropane	ND	1.0	0.5	1,3-Dichloropropane	ND	1.0	0.5
2,2-Dichloropropane	ND	1.0	0.5	1,1-Dichloropropene	ND	1.0	0.5
cis-1,3-Dichloropropene	ND	1.0	0.5	trans-1,3-Dichloropropene	ND	1.0	0.5
Diisopropyl ether (DIPE)	ND	1.0	0.5	Ethanol	ND	1.0	50
Ethylbenzene	ND	1.0	0.5	Ethyl tert-butyl ether (ETBE)	ND	1.0	0.5
Freon 113	ND	1.0	10	Hexachlorobutadiene	ND	1.0	0.5
Hexachloroethane	ND	1.0	0.5	2-Hexanone	ND	1.0	0.5
Methanol	ND	1.0	500	Isopropylbenzene	ND	1.0	0.5
4-Isopropyl toluene	ND	1.0	0.5	Methyl-t-butyl ether (MTBE)	ND	1.0	0.5
Methylene chloride	ND<1.0	1.0	0.5	4-Methyl-2-pentanone (MIBK)	ND	1.0	0.5
Naphthalene	ND	1.0	0.5	n-Propyl benzene	ND	1.0	0.5
Styrene	ND	1.0	0.5	1,1,1,2-Tetrachloroethane	ND	1.0	0.5
1,1,2,2-Tetrachloroethane	ND	1.0	0.5	Tetrachloroethene	ND	1.0	0.5
Toluene	ND	1.0	0.5	1,2,3-Trichlorobenzene	ND	1.0	0.5
1,2,4-Trichlorobenzene	ND	1.0	0.5	1,1,1-Trichloroethane	ND	1.0	0.5
1,1,2-Trichloroethane	ND	1.0	0.5	Trichloroethene	ND	1.0	0.5
Trichlorofluoromethane	ND	1.0	0.5	1,2,3-Trichloropropane	ND	1.0	0.5
1,2,4-Trimethylbenzene	ND	1.0	0.5	1,3,5-Trimethylbenzene	ND	1.0	0.5
Vinyl Chloride	ND	1.0	0.5	Xylenes, Total	ND	1.0	0.5

Surrogate Recoveries (%)

%SS1:	121	%SS2:	115
%SS3:	83		

Comments: j1

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or surrogate coelutes with another peak.

j1) see attached narrative

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Edd Clark & Associates, Inc.	Client Project ID: #0459; 1049 9th Ave Oakland	Date Sampled: 12/08/11
		Date Received: 12/09/11
320 Professional Center Ste. 215	Client Contact: Derrick Crayford	Date Extracted: 12/09/11
Rohnert Park, CA 94928	Client P.O.:	Date Analyzed: 12/17/11

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270C | Work Order: 1112318

Lab ID	1112318-001D
Client ID	MW-1
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Acetochlor	ND	1.0	10	Anthracene	ND	1.0	10
Benzidine	ND	1.0	50	Benzoic Acid	ND	1.0	50
Benzo (a) anthracene	ND	1.0	10	Benzo (b) fluoranthene	ND	1.0	10
Benzo (k) fluoranthene	ND	1.0	10	Benzo (g,h,i) perylene	ND	1.0	10
Benzo (a) pyrene	ND	1.0	10	Benzyl Alcohol	ND	1.0	50
1,1-Biphenyl	ND	1.0	10	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	20	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo (a,h) anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	Nitrobenzene	ND	1.0	10
2-Nitrophenol	ND	1.0	50	4-Nitrophenol	ND	1.0	50
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	64	%SS2:	66
%SS3:	65	%SS4:	49
%SS5:	72	%SS6:	60

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor; #) surrogate diluted out of range or surrogate coelutes with another peak.

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Edd Clark & Associates, Inc.	Client Project ID: #0459; 1049 9th Ave Oakland	Date Sampled: 12/08/11
		Date Received: 12/09/11
320 Professional Center Ste. 215	Client Contact: Derrick Crayford	Date Extracted: 12/09/11
Rohnert Park, CA 94928	Client P.O.:	Date Analyzed: 12/17/11

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270C | Work Order: 1112318

Lab ID	1112318-002D
Client ID	MW-2
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Acetochlor	ND	1.0	10	Anthracene	ND	1.0	10
Benzidine	ND	1.0	50	Benzoic Acid	ND	1.0	50
Benzo (a) anthracene	ND	1.0	10	Benzo (b) fluoranthene	ND	1.0	10
Benzo (k) fluoranthene	ND	1.0	10	Benzo (g,h,i) perylene	ND	1.0	10
Benzo (a) pyrene	ND	1.0	10	Benzyl Alcohol	ND	1.0	50
1,1-Biphenyl	ND	1.0	10	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	20	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo (a,h) anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	Nitrobenzene	ND	1.0	10
2-Nitrophenol	ND	1.0	50	4-Nitrophenol	ND	1.0	50
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	94	%SS2:	95
%SS3:	83	%SS4:	65
%SS5:	86	%SS6:	87

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor; #) surrogate diluted out of range or surrogate coelutes with another peak.

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Edd Clark & Associates, Inc.	Client Project ID: #0459; 1049 9th Ave Oakland	Date Sampled: 12/08/11
		Date Received: 12/09/11
320 Professional Center Ste. 215	Client Contact: Derrick Crayford	Date Extracted: 12/09/11
Rohnert Park, CA 94928	Client P.O.:	Date Analyzed: 12/17/11

Semi-Volatile Organics by GC/MS (Basic Target List)*

Extraction Method: SW3510C | Analytical Method: SW8270C | Work Order: 1112318

Lab ID	1112318-003D
Client ID	MW-3
Matrix	Water

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	10	Acenaphthylene	ND	1.0	10
Acetochlor	ND	1.0	10	Anthracene	ND	1.0	10
Benzidine	ND	1.0	50	Benzoic Acid	ND	1.0	50
Benzo (a) anthracene	ND	1.0	10	Benzo (b) fluoranthene	ND	1.0	10
Benzo (k) fluoranthene	ND	1.0	10	Benzo (g,h,i) perylene	ND	1.0	10
Benzo (a) pyrene	ND	1.0	10	Benzyl Alcohol	ND	1.0	50
1,1-Biphenyl	ND	1.0	10	Bis (2-chloroethoxy) Methane	ND	1.0	10
Bis (2-chloroethyl) Ether	ND	1.0	10	Bis (2-chloroisopropyl) Ether	ND	1.0	10
Bis (2-ethylhexyl) Phthalate	ND	1.0	20	4-Bromophenyl Phenyl Ether	ND	1.0	10
Butylbenzyl Phthalate	ND	1.0	10	4-Chloroaniline	ND	1.0	20
4-Chloro-3-methylphenol	ND	1.0	10	2-Chloronaphthalene	ND	1.0	10
2-Chlorophenol	ND	1.0	10	4-Chlorophenyl Phenyl Ether	ND	1.0	10
Chrysene	ND	1.0	10	Dibenzo (a,h) anthracene	ND	1.0	10
Dibenzofuran	ND	1.0	10	Di-n-butyl Phthalate	ND	1.0	10
1,2-Dichlorobenzene	ND	1.0	10	1,3-Dichlorobenzene	ND	1.0	10
1,4-Dichlorobenzene	ND	1.0	10	3,3-Dichlorobenzidine	ND	1.0	20
2,4-Dichlorophenol	ND	1.0	10	Diethyl Phthalate	ND	1.0	10
2,4-Dimethylphenol	ND	1.0	10	Dimethyl Phthalate	ND	1.0	10
4,6-Dinitro-2-methylphenol	ND	1.0	50	2,4-Dinitrophenol	ND	1.0	50
2,4-Dinitrotoluene	ND	1.0	10	2,6-Dinitrotoluene	ND	1.0	10
Di-n-octyl Phthalate	ND	1.0	10	1,2-Diphenylhydrazine	ND	1.0	10
Fluoranthene	ND	1.0	10	Fluorene	ND	1.0	10
Hexachlorobenzene	ND	1.0	10	Hexachlorobutadiene	ND	1.0	10
Hexachlorocyclopentadiene	ND	1.0	50	Hexachloroethane	ND	1.0	10
Indeno (1,2,3-cd) pyrene	ND	1.0	10	Isophorone	ND	1.0	10
2-Methylnaphthalene	ND	1.0	10	2-Methylphenol (o-Cresol)	ND	1.0	10
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	10	Naphthalene	ND	1.0	10
2-Nitroaniline	ND	1.0	50	3-Nitroaniline	ND	1.0	50
4-Nitroaniline	ND	1.0	50	Nitrobenzene	ND	1.0	10
2-Nitrophenol	ND	1.0	50	4-Nitrophenol	ND	1.0	50
N-Nitrosodiphenylamine	ND	1.0	10	N-Nitrosodi-n-propylamine	ND	1.0	10
Pentachlorophenol	ND	1.0	50	Phenanthrene	ND	1.0	10
Phenol	ND	1.0	10	Pyrene	ND	1.0	10
1,2,4-Trichlorobenzene	ND	1.0	10	2,4,5-Trichlorophenol	ND	1.0	10
2,4,6-Trichlorophenol	ND	1.0	10				

Surrogate Recoveries (%)

%SS1:	77	%SS2:	84
%SS3:	79	%SS4:	64
%SS5:	71	%SS6:	85

Comments:

* water samples in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L.

ND means not detected at or above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor; #) surrogate diluted out of range or surrogate coelutes with another peak.

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Edd Clark & Associates, Inc.	Client Project ID: #0459; 1049 9th Ave Oakland	Date Sampled: 12/08/11
		Date Received: 12/09/11
320 Professional Center Ste. 215	Client Contact: Derrick Crayford	Date Extracted: 12/12/11-12/14/11
Rohnert Park, CA 94928	Client P.O.:	Date Analyzed: 12/12/11-12/14/11

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Bm Work Order: 1112318

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	MW-1	W	63	---	ND	ND	ND	ND	1	106	d7
002A	MW-2	W	ND	---	ND	ND	ND	ND	1	98	
003A	MW-3	W	ND	---	ND	ND	ND	ND	1	98	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	µg/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference. %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Edd Clark & Associates, Inc.	Client Project ID: #0459; 1049 9th Ave Oakland	Date Sampled: 12/08/11
320 Professional Center Ste. 215		Date Received: 12/09/11
	Client Contact: Derrick Crayford	Date Extracted 12/09/11
Rohnert Park, CA 94928	Client P.O.:	Date Analyzed 12/10/11-12/11/11

Total Extractable Petroleum Hydrocarbons*

Extraction method: SW3510C Analytical methods: SW8015B Work Order: 1112318

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	DF	% SS	Comments
1112318-001B	MW-1	W	87	1	106	e2
1112318-002B	MW-2	W	ND	1	105	
1112318-003B	MW-3	W	ND	1	106	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

* water samples are reported in ug/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

%SS = Percent Recovery of Surrogate Standard. DF = Dilution Factor

The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:
e2) diesel range compounds are significant; no recognizable pattern

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Angela Rydelius, Lab Manager

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Edd Clark & Associates, Inc. 320 Professional Center Ste. 215 Rohnert Park, CA 94928	Client Project ID: #0459; 1049 9th Ave Oakland	Date Sampled: 12/08/11
		Date Received: 12/09/11
	Client Contact: Derrick Crayford	Date Reported: 12/16/11
	Client P.O.:	Date Completed: 12/16/11

Work Order: 1112318

December 16, 2011

Case Narrative

j1) Reporting limit raised due to a suspected elevated methylene chloride concentration in the sample container.

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Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water | QC Matrix: Water | BatchID: 63269 | WorkOrder: 1112318

EPA Method: SW8015B | **Extraction: SW3510C** | **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	103	N/A	N/A	70 - 130
%SS:	N/A	625	N/A	N/A	N/A	102	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 63269 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112318-001B	12/08/11 11:10 AM	12/09/11	12/10/11 11:52 PM	1112318-002B	12/08/11 11:30 AM	12/09/11	12/11/11 12:58 AM
1112318-003B	12/08/11 12:05 PM	12/09/11	12/11/11 2:04 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QA/QC Officer

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SM5520B/F

W.O. Sample Matrix: Water | QC Matrix: Water | BatchID: 63314 | WorkOrder: 1112318

EPA Method: SM5520B/F **Extraction: SM5520B/F** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
POG	N/A	10.42	N/A	N/A	N/A	96.9	N/A	N/A	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 63314 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112318-001E	12/08/11 11:10 AM	12/14/11	12/15/11 12:35 PM	1112318-002E	12/08/11 11:30 AM	12/14/11	12/15/11 12:40 PM
1112318-003E	12/08/11 12:05 PM	12/14/11	12/15/11 12:45 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water | QC Matrix: Water | BatchID: 63335 | WorkOrder: 1112318

EPA Method: SW8260B **Extraction: SW5030B** **Spiked Sample ID: 1112262-002C**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
tert-Amyl methyl ether (TAME)	ND	10	114	112	1.44	101	70 - 130	30	70 - 130
Benzene	ND	10	99.2	97.6	1.66	111	70 - 130	30	70 - 130
t-Butyl alcohol (TBA)	ND	40	94.5	100	5.96	77.6	70 - 130	30	70 - 130
Chlorobenzene	ND	10	96.6	94.9	1.73	108	70 - 130	30	70 - 130
1,2-Dibromoethane (EDB)	ND	10	105	101	3.48	103	70 - 130	30	70 - 130
1,2-Dichloroethane (1,2-DCA)	ND	10	95.7	94.9	0.843	104	70 - 130	30	70 - 130
1,1-Dichloroethene	ND	10	97.2	97.2	0	128	70 - 130	30	70 - 130
Diisopropyl ether (DIPE)	ND	10	101	99.1	1.72	106	70 - 130	30	70 - 130
Ethyl tert-butyl ether (ETBE)	ND	10	101	101	0	107	70 - 130	30	70 - 130
Methyl-t-butyl ether (MTBE)	ND	10	101	100	0.994	107	70 - 130	30	70 - 130
Toluene	ND	10	96.1	94.4	1.77	107	70 - 130	30	70 - 130
Trichloroethene	0.58	10	102	97.8	4.01	115	70 - 130	30	70 - 130
%SS1:	102	25	112	114	1.29	109	70 - 130	30	70 - 130
%SS2:	102	25	108	108	0	99	70 - 130	30	70 - 130
%SS3:	99	2.5	104	104	0	95	70 - 130	30	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 63335 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112318-001C	12/08/11 11:10 AM	12/15/11	12/15/11 5:02 AM	1112318-002C	12/08/11 11:30 AM	12/15/11	12/15/11 5:41 AM
1112318-003C	12/08/11 12:05 PM	12/15/11	12/15/11 6:19 AM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.
NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8270C

W.O. Sample Matrix: Water | QC Matrix: Water | BatchID: 63297 | WorkOrder: 1112318

EPA Method: SW8270C **Extraction: SW3510C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
Acenaphthene	N/A	50	N/A	N/A	N/A	76.9	N/A	N/A	30 - 130
4-Chloro-3-methylphenol	N/A	100	N/A	N/A	N/A	65.6	N/A	N/A	30 - 130
2-Chlorophenol	N/A	100	N/A	N/A	N/A	82.4	N/A	N/A	30 - 130
1,4-Dichlorobenzene	N/A	50	N/A	N/A	N/A	69	N/A	N/A	30 - 130
2,4-Dinitrotoluene	N/A	50	N/A	N/A	N/A	89.1	N/A	N/A	30 - 130
4-Nitrophenol	N/A	100	N/A	N/A	N/A	59.5	N/A	N/A	30 - 130
N-Nitrosodi-n-propylamine	N/A	50	N/A	N/A	N/A	116	N/A	N/A	30 - 130
Pentachlorophenol	N/A	100	N/A	N/A	N/A	69.3	N/A	N/A	30 - 130
Phenol	N/A	100	N/A	N/A	N/A	86.9	N/A	N/A	30 - 130
Pyrene	N/A	50	N/A	N/A	N/A	73.9	N/A	N/A	30 - 130
1,2,4-Trichlorobenzene	N/A	50	N/A	N/A	N/A	69.6	N/A	N/A	30 - 130
%SS1:	N/A	5000	N/A	N/A	N/A	100	N/A	N/A	30 - 130
%SS2:	N/A	5000	N/A	N/A	N/A	100	N/A	N/A	30 - 130
%SS3:	N/A	5000	N/A	N/A	N/A	107	N/A	N/A	30 - 130
%SS4:	N/A	5000	N/A	N/A	N/A	95	N/A	N/A	30 - 130
%SS5:	N/A	5000	N/A	N/A	N/A	111	N/A	N/A	30 - 130
%SS6:	N/A	5000	N/A	N/A	N/A	100	N/A	N/A	30 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 63297 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112318-001D	12/08/11 11:10 AM	12/09/11	12/17/11 2:43 PM	1112318-002D	12/08/11 11:30 AM	12/09/11	12/17/11 4:13 PM
1112318-003D	12/08/11 12:05 PM	12/09/11	12/17/11 5:43 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water | QC Matrix: Water | BatchID: 63368 | WorkOrder: 1112318

EPA Method: SW8021B/8015Bm **Extraction: SW5030B** **Spiked Sample ID: 1112318-003A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex)£	ND	60	121	111	8.05	122	70 - 130	20	70 - 130
MTBE	ND	10	100	92	8.54	100	70 - 130	20	70 - 130
Benzene	ND	10	97.2	90.8	6.83	98.2	70 - 130	20	70 - 130
Toluene	ND	10	95.1	89.4	6.23	96.5	70 - 130	20	70 - 130
Ethylbenzene	ND	10	94.8	90.1	5.07	95.7	70 - 130	20	70 - 130
Xylenes	ND	30	97.9	93.3	4.74	96.9	70 - 130	20	70 - 130
%SS:	98	10	97	97	0	99	70 - 130	20	70 - 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 63368 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112318-001A	12/08/11 11:10 AM	12/14/11	12/14/11 10:13 PM	1112318-002A	12/08/11 11:30 AM	12/12/11	12/12/11 6:57 PM
1112318-003A	12/08/11 12:05 PM	12/12/11	12/12/11 7:27 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

DHS ELAP Certification 1644

QA/QC Officer

Erik Clark & Associates, Inc.
Environmental Consultants

1112318

Chain of Custody Report

P.O. Box 3039, Rohnert Park, CA 94927
Tel: (707) 207-9500 (800) 714-1418 Fax: (707) 207-9501

Email an EDF for Upload to Geotracker: Yes ☒ No ☐ Initials D.C.

Samplers Signature: D. Crawford

EC&A job # 0459

Global I.D. # T0600102212

Facility Name & Location: 1049 9th St Ave Oakland CA.

	Field Point Name	Date	Time	Sample ID (depth)	Sample Type	Media	# of Items	TPHG/BTEX (8015)/(8021)	TPHD (8015)	Full Scan VOCs + 7 Oxys (8260)	SVOCs (8270)	8260 (5520)	Remarks
1	MW-1	12/8/11	11:10			W	10	X	X	X	X	X	
2	MW-2		11:30			W	10	X	X	X	X	X	
3	MW-3		12:05			W	10	X	X	X	X	X	

ICE/t: 1.8
GOOD CONDITION ___ APPROPRIATE
HEAD SPACE ABSENT ___ CONTAINERS
DECHLORINATED IN LAB ___ PRESERVED IN LAB ___
PRESERVATION VOAs O&G METALS

Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:
	12/9/11	1520			12/9/11	1715	
Relinquished by:	Date:	Time:	Received by:	Relinquished by:	Date:	Time:	Received by:

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1112318 **ClientCode: ECAR**

☐ WaterTrax ☐ WriteOn ☑ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Derrick Crayford
Edd Clark & Associates, Inc.
320 Professional Center Ste. 215
Rohnert Park, CA 94928
(707) 792-9500 FAX: (707) 792-9504

Email: corpmail@ecaenviron.com
cc:
PO:
ProjectNo: #0459; 1049 9th Ave Oakland

Bill to:
Accounts Payable
Edd Clark & Associates, Inc.
320 Professional Center Ste.215
Rohnert Park, CA 94928

Requested TAT: 5 days
Date Received: 12/09/2011
Date Printed: 12/09/2011

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
1112318-001	MW-1	Water	12/8/2011 11:10	☐	E	C	D	A	A	B						
1112318-002	MW-2	Water	12/8/2011 11:30	☐	E	C	D	A		B						
1112318-003	MW-3	Water	12/8/2011 12:05	☐	E	C	D	A		B						

Test Legend:

1	5520B_SG_W	2	8260B+7OXY_W	3	8270D_W	4	G-MBTEX_W	5	PREDF REPORT
6	TPH(D)_W	7		8		9		10	
11		12							

Prepared by: Zoraida Cortez

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **Edd Clark & Associates, Inc.**

Date and Time Received: **12/9/2011 6:21:21 PM**

Project Name: **#0459; 1049 9th Ave Oakland**

Checklist completed and reviewed by: Zoraida Cortez

WorkOrder N°: **1112318** Matrix: Water

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 1.8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments: