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Alameda County
Environmental Health

February 5, 2008

Mr. Steve Shinners
Senior Manager - Safety, Health & Environmental Services
YRC North American Transportation, Inc.
10990 Roe Avenue
Overland Park, Kansas 66211

Subject: Site Investigation
Roadway Express, Inc.
1708 Wood Street
Oakland, California
Burns & McDonnell Project No. 47561

Dear Mr. Shinners:

In response to your request on behalf of YRC Worldwide Enterprise Services, Inc. (YRCW), Burns & McDonnell Engineering Company, Inc. (Burns & McDonnell) has prepared this Site Investigation report detailing potential soil and groundwater impacts present at the Roadway Express, Inc. truck terminal, located at 1708 Wood Street, Oakland, California (Site). Figure 1 shows the location of the Site.

The multi-phased Site investigation included soil and groundwater sampling, groundwater well re-development and surveying of the Site's existing groundwater monitoring well network, and subsurface utility identification. Soil and groundwater samples were collected for analysis of: total petroleum hydrocarbons (TPH) as diesel (d), gasoline (g), total oil & grease (o&g), and motor oil (mo); volatile organic compounds (VOCs); semi-volatile compounds (SVOCs); and CAM 17 metals.

1.0 Site Description and Location

The Site is currently operating as a trucking facility, which includes a terminal, loading dock, warehouse, business office, and the perimeter is used for trailer storage (Figure 2). The Site is secured with a full perimeter fence and staffed by professional security guards.

The Site is situated between Wood Street to the west, 18th Street to the north, 17th Street to the south and Campbell Street to the east. Across 18th street is a community park and surrounding businesses are industrial complexes.

2.0 Regional and Site Geology

The Site is located approximately 1 mile east of the central-east portion of the San Francisco Bay, at an elevation of approximately 10 feet above mean sea level (MSL). The Site is near the current eastern extent of the San Francisco Bay, and in the recent geologic past, was part of the San Francisco Bay. The near-surface geology has largely been controlled by the changing morphology of the San Francisco Bay over geologic time. The closest surface-water bodies to the Site are the Oakland Outer Harbor, located approximately 1 mile west of the Site, and the Oakland Inner Harbor, located approximately 1.75 miles south of the Site.

The Site's lithology is characterized by: dark gray, very soft, moist clay to a depth of approximately 15 feet below ground surface (bgs); overlying approximately 10 feet of brown, soft, wet, silty sandy clay that extends from approximately 15 to 25 feet bgs; approximately 4 feet of brown, wet, silty clayey sand that extends from approximately 25 to 29 feet bgs; and a gray, very soft, wet clay of unknown thickness.

3.0 Site History and Underground Storage Tank Overview

According to previous consultants that have worked at the site (*Marshall Miller & Associates 2006* and *R.S Eagan & Co. 1987*) between the years 1987 to 1996, three underground storage tanks (USTs) were properly removed and two USTs were abandoned in-place. In March 1987, two USTs (one 10,000 gallon gasoline tank and one 2,000 gallon motor oil tank) were removed from the central-eastern area of the Site, along 18th Street (Figure 2). During this work, two other USTs were identified at the northwest corner of the property (one 2,000 gallon waste oil tank and one 10,000 gallon tank of unknown contents). The two USTs were abandoned-in-place (filled with sand slurry and grout) by R.S. Eagan & Co. At that time, R.S. Eagan & Co. installed two monitoring wells, MW-1 and MW-2, within the footprint of the central-eastern excavation.

In April 1996, the remaining 10,000 gallon diesel UST and all associated piping was removed from the central-eastern area of the Site, along 18th Street. During this tank removal, monitoring well MW-1, located within the excavation footprint, was removed.

In September 2000, One Environment installed three monitoring wells (MW-3, MW-4, and MW-5) around the location of the removed USTs in the central-eastern area of the Site. Well construction details are summarized in Table 1.

In March 2007, Burns & McDonnell was retained by YRWC to locate and sample the Site's monitoring wells. Monitoring wells MW-3, MW-4, and MW-5 were located and sampled.

4.0 Investigation Activities

The scope of work for this Site investigation was initially presented to YRCW by Shaw Environmental and subsequently agreed upon by Burns & McDonnell and YRCW. The scope of work detailed by this report is as follows:

- Six direct push borings around the three removed USTs, collecting soil and groundwater samples for analysis;

- Three direct push borings around the two abandoned-in-place USTs, collecting soil and groundwater samples for analysis;

- Re-develop and sample the Site's existing groundwater monitoring well network;

- Survey the Site's monitoring well network in order to: locate monitoring well MW-2; provide Geotracker compatible survey data; and prepare a potentiometric surface map showing groundwater flow direction and gradient.

4.1 Permitting and Utility Clearance

Burns & McDonnell obtained the appropriate boring permits from the Alameda County Public Works Agency (ACPWA) prior to conducting field activities. The approved permit is presented in Appendix A. Prior to drilling, the proposed boring locations were marked in the field and checked for the presence of any piping, utilities, and or other subsurface obstructions by Underground Service Alert North. Additionally, Burns & McDonnell retained a private utility locator, Precision Locating, to check for subsurface utilities or obstructions.

While checking for utilities, a subsurface anomaly was found in the area of the abandoned-in-place USTs. The anomaly was located at a depth of approximately 3 feet bgs by ground penetrating radar. The anomaly showed a northwest to southeast alignment and was approximately 8 feet x 12 feet in size. Based on the size, orientation, and shape of the subsurface readings, it is likely that this is the location of one of the abandoned-in-place USTs. Boring locations in this area were relocated to surround the anomaly.

4.1.1 Direct Push Borings

On December 10, 2007, nine borings were advanced to a maximum depth of 15 feet bgs. Six of the borings (BM-1 through BM-6) were in the central-eastern area of the Site, where the former fuel and waste oil USTs had been removed. Three borings (BM-7, BM-8, and BM-9) were advanced in the area near the corner of 18th Street and Wood Street, where the USTs that were abandoned-in-place are estimated to be located. The locations of the direct-push borings are illustrated on Figure 3 and Figure 4.

4.1.2 Direct Push Soil Sampling and Analysis

Borings were advanced using a Geoprobe® 6600 rig. Continuous soil cores were collected using a disposable acetate sleeve placed inside the direct-push soil sampler. Once the soil core was removed, Burns & McDonnell personnel split open the acetate sleeve and the soil was visually inspected for lithologic description, staining, and wetness. Lithologic descriptions were defined, following the Unified Soil Classification System (USCS) and were recorded on field boring logs. Direct push boring logs are presented in Appendix B.

The following table summarizes soil samples collected and laboratory analysis preformed during this investigation, as defined in the previously agreed to scope of work.

Boring ID	Depth of Sample (feet bgs)	Analysis Performed (Analytical Method)
BM-1	8	SVOCs (EPA 8270C), CAM 17 Metals (EPA 6010B)
BM-2	5 & 13	TPHd, TPHg, TPHmo (EPA 8015M)
BM-7	6	TPHd, TPHg, TPHmo (EPA 8015M) VOCs (EPA 8260B), SVOCs (EPA 8270C), CAM17 Metals (EPA 6010B)
BM-8	7	TPHd, TPHg, TPHmo (EPA 8015M) VOCs (EPA 8260B), SVOCs (EPA 8270C), CAM17 Metals (EPA 6010B)
BM-9	5	TPHd, TPHg, TPHmo (EPA 8015M) VOCs (EPA 8260B), SVOCs (EPA 8270C), CAM17 Metals (EPA 6010B)

4.1.3 Direct Push Groundwater Sampling and Analysis

Following soil sampling activities, a temporary, slotted PVC casing was placed in each borehole and groundwater was allowed to enter and equilibrate. A check-valve was attached to 3/8-inch disposable polyethylene tubing and lowered into the temporary casing.

Attempts were made to collect a sufficient sample of groundwater from each of the boring locations, however, there was very little groundwater in borings BM-3, BM-5, and BM-6, and the tubing frequently became clogged with sediment. Due to the limited groundwater recharge from these borings, it was not possible to collect enough groundwater for analysis of TPHd, TPHo&g, and TPHmo.

The following table summarizes grab groundwater samples collected and analysis preformed during this investigation as defined in the previously agreed to scope of work.

Boring ID	Analysis Performed (Analytical Method)
BM-1	SVOCs (EPA 8270C), CAM 17 Metals (EPA 6010B)
BM-2	TPHd, TPHg, TPHo&g, TPHmo (EPA 8015M)
BM-3	TPHg (EPA 8015M)
BM-4	TPHd, TPHg, TPHo&g, TPHmo (EPA 8015M)
BM-5	TPHg (EPA 8015M)
BM-6	TPHg (EPA 8015M)
BM-7	TPHd, TPHg, TPHo&g (EPA 8015M), VOCs (EPA 8260B), SVOCs (EPA 8270C), CAM17 Metals
BM-8	TPHd, TPHg, TPHo&g (EPA 8015M), VOCs (EPA 8260B), SVOCs (EPA 8270C),

	CAM17 Metals
BM-9	TPHd, TPHg, TPHo&g (EPA 8015M), VOCs (EPA 8260B), SVOCs (EPA 8270C), CAM17 Metals

All soil and groundwater samples were submitted to, and analyzed by, Entech Analytical Labs, Inc., located in Santa Clara, California, a California-state certified laboratory. All samples were transferred under Chain-of-Custody procedures and documentation. Chain-of-Custody documentation and certified analytical reports are provided in Appendix C. Due to the nature of EPA Method 8015B(M), requested analysis of TPHo&g from submitted soil samples BM-2-5, BM-2-13, BM-7-6, BM-8-7, and BM-9-5, was not quantified and replaced with TPHmo.

4.1 Well Redevelopment

On December 11, 2007, monitoring wells MW-2 through MW-5 were redeveloped by Resonant Sonic, Inc. Monitoring wells were redeveloped using standard surge and bail techniques. Monitoring well redevelopment involved the removal of water from the well until it was relatively free of sediment, approximately ten saturated well volumes, and groundwater parameters (temperature, pH, and electrical conductivity) had stabilized. The development water was temporarily stored on-Site, in labeled 55-gallon drums, pending future off-Site disposal/recycling at an appropriate facility. Well development forms are presented in Appendix D.

4.2.1 Well Sampling

On December 17, 2007, groundwater samples were collected from the Site's existing groundwater monitoring wells: MW-2 through MW-5 (Figures 4, 5, and 6). Prior to collecting groundwater samples, depth-to-water (DTW) was measured from the top of casing (TOC) at each well using a clean, battery-operated, oil/water interface probe. Well gauging and groundwater elevations, along with well construction details, are summarized in Table 1. The DTW for each well was recorded on the Groundwater Sampling Forms. The interface probe was cleaned between each well with an Alconox water solution and rinsed with deionized water. Groundwater sampling forms are presented in Appendix E.

Monitoring wells were purged using low-flow methodology. Clean disposable tubing was lowered to the middle of the well's screened interval, and a peristaltic pump was used to extract groundwater from the well, at a rate of approximately 250 milliliters per minute (ml/min).

Groundwater parameters (temperature, pH, specific conductance, ORP, and DO) were measured and recorded on Groundwater Sampling Forms (Appendix E). Water clarity was visually qualified and recorded. After field parameters stabilized to within +/- 10% over at least three consecutive readings while at a stabilized water elevation, groundwater samples were collected in laboratory supplied sampling bottles.

Groundwater samples were uniquely labeled with the well identification, date, time of collection, type of preservative, and analyses to be performed. Once collected, each groundwater sample

was immediately placed into an insulated, ice-filled cooler. Samples were transferred under Chain-of-Custody protocol to Entech Laboratories Inc.

4.2.2 Well Survey

Burns & McDonnell retained Luk and Associates, a California Licensed Surveyor, to survey monitoring wells MW-2 through MW-5, relative to MSL. The survey is in compliance with the California Geotracker Database requirements. The certified survey report is presented in Appendix F.

4.2.3 Groundwater Flow Direction and Gradient

On December 17, 2007, static groundwater was observed in the Site's wells, at depths ranging from 3.66 feet to 4.40 feet below TOC, with corresponding groundwater elevations ranging from 5.71 feet to 5.86 feet MSL. Due to the depth and screened interval of MW-2, the depth to water (1.56 ft below TOC) and corresponding groundwater elevation (8.33 feet MSL) were not used in the groundwater contouring. Burns & McDonnell used gauging and well casing elevation data to calculate groundwater elevation. In the area of the removed USTs, groundwater flow direction was to the west north-west with a gradient of approximately 0.002 feet per foot (ft/ft). Groundwater elevations are summarized in Table 1 and presented on Figure 6.

5.0 Summary of Laboratory Analysis

5.1 Soil Samples

Soil samples were collected from the boring in the area of the removed USTs (BM-2, Figure 4), with TPHd detected in BM-2 (5 feet bgs) at a concentration of 8.8 milligrams per kilogram (mg/Kg). Total petroleum hydrocarbons in soil are summarized in Table 2.

Soil samples were collected from the borings in the area of the abandoned USTs (BM-7, BM-8, and BM-9, Figure 3) with TPHmo detected in borings BM-7 (at 6 feet bgs), BM-8 (at 7 feet bgs), and BM-9 (at 5 feet bgs) at concentrations of 86 mg/Kg, 1,700 mg/Kg, and 83 mg/Kg, respectively.

VOCs and SVOCs were not detected at or above the detection limit in soil samples collected from borings BM-1, BM-7, and BM-9. However acetone was detected at a concentration of 110 µg/Kg in sample BM-8 (7 feet bgs).

Various Cam17 Metals were detected in soil samples from borings BM-1, BM-7, BM-8, and BM-9. Table 3 summarizes CAM17 Metals in soil and groundwater.

5.2 Groundwater Samples

Groundwater samples were collected from the borings in the area where the USTs were removed (BM-2 through BM-6, and MW-2 through MW-5), with TPHd detected in boring BM-2 and monitoring well MW-2 at concentrations of 28,000 µg/L and 140 µg/L, respectively. TPHg was detected in boring BM-2 at a concentration of 260 µg/L. TPHo&g was not detected in the samples collected from borings BM-2 and BM-4, and monitoring wells MW-2 through MW-5.

TPHmo was detected in BM-2 and BM-4 at concentrations of 1,500 µg/L and 9,900 µg/L, respectively. Table 4 summarizes historical grab groundwater results. Table 5 summarizes results from the Site's groundwater monitoring wells.

In the area of the abandoned-in-place USTs (BM-7, BM-8, and BM-9), TPHd was detected in borings BM-7, BM-8, and BM-9 at concentrations of 120 µg/L, 61,000 µg/L, and 1,200 µg/L, respectively. TPHg was detected in borings BM-8 and BM-9 at concentrations of 54,000 µg/L and 180 µg/L, respectively. TPHo&g was detected in boring BM-8 at a concentration of 430 mg/L. Methyl-t-butyl Ether (MTBE) was detected in BM-7, at a concentration of 2.3 µg/L.

It was noted that there was a fuel odor in the groundwater samples taken from BM-8 and BM-9, and a hydrocarbon sheen was seen on the water sample submitted from BM-8.

The only VOCs and SVOCs detected the groundwater samples were bis(2-Ethylhexyl)phthalate and Methyl-t-butyl Ether (MTBE). Bis(2-Ethylhexyl)phthalate was detected in BM-1 at a concentration of 16 µg/L. MTBE was detected in BM-7 at a concentration of 2.3 µg/L. No Benzene, Toluene, Ethylbenzene, or Xylene (BTEX) compounds were detected in any of the groundwater samples.

Various Cam17 Metals were detected in grab groundwater samples from borings BM-1, BM-7, BM-8, and BM-9. Table 3 summarizes CAM17 Metals in soil and groundwater.

Groundwater samples from the monitoring wells only showed petroleum impacts in well MW-2, which is screened in a probable perched water zone, screened down to 9 feet bgs. The remainder of the monitoring wells, MW-3, MW-4, and MW-5, did not contain ant detectable petroleum hydrocarbon constituents.

Copies of the certified analytical reports and Chain-of-Custody documentation are included as Appendix C.

6.0 Summary and Recomendations

6.1 Central-Eastern Portion of the Site

In the central-eastern portion of the Site where the USTs were removed, impacts were seen the shallow groundwater samples. The highest impacts in this area were seen in grab groundwater samples from boring BM-2. This boring was located below the former fueling island and was advanced through the gravel fill placed in the excavation after the tank was removed. Moving down gradient, approximately 25 feet horizontally, concentrations of TPHd fall to 140 µg/L in MW-2 (Figures 5 and 6).

The groundwater monitoring wells screened between 10 and 30 feet bgs (MW-3, MW-4, and MW-5) have not shown any petroleum hydrocarbon constituents in the March or December 2007 sampling events. Monitoring well MW-2 which is screened between 0.5 and 9.2 feet bgs, is the only monitoring well at the site that has recently shown any petroleum hydrocarbon constituents.

6.2 Northwest Corner of the Site

In the northwest corner of the Site, in the area where the two USTs were abandoned in place, petroleum hydrocarbon constituents were seen in soil and grab groundwater samples from all three borings. BTEX was not detected in any of the groundwater samples and the only detected VOC was limited to MTBE, which was detected in BM-7.

6.3 Recommendations

A workplan will be prepared and submitted that will describe additional Site assessment activities to further define the vertical and horizontal extent of petroleum hydrocarbon constituents at the Site.

If you have any questions regarding this project please feel free to contact the undersigned at (650) 871-2926.

Sincerely,

Patrick Bratton
Geologist

Gary P. Messerotes, P.G.
Senior Geologist

Attachments:

Figure 1 – Site Location Map
Figure 2 – Site Map
Figure 3 – Groundwater Concentrations – Abandoned USTs Area
Figure 4 – Former USTs Area
Figure 5 – Groundwater Concentrations – Former USTs Area
Figure 6 – Groundwater Elevations – Former USTs Area

Table 1: Well Construction Details and Groundwater Elevations
Table 2: Summary of Total Petroleum Hydrocarbons in Soil
Table 3: Summary of CAM17 Metals in Soil and Groundwater
Table 4: Historical Grab Groundwater Summary
Table 5: Historical Monitoring Well Summary

Appendix A – Boring Permit
Appendix B – Boring Logs
Appendix C – Laboratory Analytical Reports
Appendix D – Well Development Forms
Appendix E – Field Sampling Forms
Appendix F – Monitoring Well Survey Report

TABLES

TABLE 1

Well Construction Details and Groundwater Elevation
USF Roadway Express Facility
1708 Wood Street
Oakland, California

Well ID	Date Measured	Casing Diameter	Casing Elevation	Total Depth	Screened Interval	Depth to Water	Groundwater Elevation
		(Inches)	Feet (1)	Feet (2)	Feet (2)	Feet (3)	Feet (1)
MW-2	17-Dec-07	4	9.89	9.2	0.5-9.2	1.56	8.33
MW-3	17-Dec-07	2	10.11	29.4	10-30	4.40	5.71
MW-4	17-Dec-07	2	9.52	29.5	10-30	3.66	5.86
MW-5	17-Dec-07	2	9.97	29.2	10-30	4.11	5.86

1 - Elevation in feet above mean sea level
2 - Depth in feet below ground surface
3 - Depth in feet below measuring point (top of casing)

Screened intervals based on boring logs located in the
Additional Groundwater Investigation Report by One Environment, 2001
Casing Elevation Resurveyed on December 20, 2007

TABLE 2
Summary of Total Petroleum Hydrocarbons in Soil
USF Roadway Express Facility
1708 Wood Street
Oakland, California

Sample ID	Date Sampled	Depth	TPH-Gasoline	TPH-Diesel	TPH-Motor Oil
Units		(Feet bgs)	mg/Kg	mg/Kg	mg/Kg
B-1	24-Jul-97	4	<1	<1	---
B-3	24-Jul-97	6	<1	240	---
B-4	24-Jul-97	7	<1	<1	---
B-5	24-Jul-97	3.5	<1	5.4	---
B-6	24-Jul-97	5	<1	<1	---
B-7	24-Jul-97	3	<1	<1	---
B-8	24-Jul-97	2	<1	<1	---
MW-3	6-Sep-00	5	ND	ND	---
MW-3	6-Sep-00	10	ND	ND	---
MW-4	6-Sep-00	5	ND	ND	---
MW-4	6-Sep-00	10	ND	ND	---
MW-5	6-Sep-00	5	ND	ND	---
MW-5	6-Sep-00	10	ND	ND	---
BM-2	10-Dec-07	5	<0.50	8.8*	86
BM-2	10-Dec-07	13	<0.50	<5.0	---
BM-7	10-Dec-07	6	<0.50	<5.0	86
BM-8	10-Dec-07	7	<0.50	<120	1,700
BM-9	10-Dec-07	5	<0.50	<5.0	83

Notes:

ND = Sample not detected above detection limit; unable to find detection limit in prior sampling reports
< ## = Sample not detected above detection limit of ##
--- = Not sampled/analyzed for this constituent
Boring Locations are indicated on Figures 3 and 4
* = Atypical pattern

Table 3
Summary of CAM17 Metals in Soil and Groundwater
USF Roadway Express Facility
1708 Wood Street
Oakland, California

Soil

Boring ID	BM-1	BM-7	BM-8	BM-9
Sample Depth (feet bgs)	8	6	7	5
Metal	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Antimony	<1.0	<1.0	<1.0	<1.0
Arsenic	5.1	3.2	5.4	2.8
Barium	21	34	54	94
Beryllium	<1.0	<1.0	<1.0	<1.0
Cadmium	1.4	<1.0	<1.0	<1.0
Chromium	44	50	42	31
Cobalt	14	8.0	5.3	7.7
Copper	19	23	36	28
Lead	6.0	9.6	49	22
Molybdenum	<1.0	1.4	<1.0	<1.0
Mercury	<0.050	<0.050	0.25	<0.050
Nickel	65	37	26	25
Selenium	<2.0	<2.0	<2.0	<2.0
Silver	<1.0	<1.0	<1.0	<1.0
Thallium	<2.0	<2.0	<2.0	<2.0
Vanadium	36	41	35	33
Zinc	51	61	100	70

Grab Groundwater

Boring ID	BM-1	BM-7	BM-8	BM-9
Metal	mg/L	mg/L	mg/L	mg/L
Antimony	0.063	<0.010	<0.010	0.011
Arsenic	0.43	0.031	0.011	0.072
Barium	5.6	0.27	0.094	2.4
Beryllium	<0.0050	<0.0050	<0.0050	<0.0050
Cadmium	0.016	<0.0020	<0.0020	0.0070
Chromium	5.5	0.27	0.11	0.61
Cobalt	0.61	0.042	0.015	0.17
Copper	2.9	0.11	0.045	0.64
Lead	9.2	0.083	0.030	0.86
Molybdenum	<0.0050	0.0050	<0.0050	0.022
Mercury	<0.0002	<0.0002	<0.0002	<0.0002
Nickel	3.5	0.22	0.075	0.50
Selenium	<0.020	<0.020	<0.020	<0.020
Silver	<0.0050	<0.0050	<0.0050	<0.0050
Thallium	<0.020	<0.020	<0.020	<0.020
Vanadium	4.0	0.23	0.090	0.58
Zinc	7.2	0.26	0.087	1.5

All samples collected on December 10, 2007
Sample Depth in Feet below ground surface
< ## = Sample not detected above detection limit of ##

TABLE 4
Historical Grab Groundwater Summary
Total Petroleum Hydrocarbons and Total Oil & Grease in Groundwater
USF Roadway Express Facility
1708 Wood Street
Oakland, California

Sample Number	Date Sampled	TPH-Diesel	TPH-Gasoline	MTBE	Total Oil & Grease	TPH-Motor Oil
Analytical Reporting Units		µg/L	µg/L	µg/L	mg/L	µg/L
B-1	24-Jul-97	<50	<50	---	<0.5	---
B-3	24-Jul-97	500	<50	---	0.54	---
B-4	24-Jul-97	560	<50	---	<0.5	---
B-5	24-Jul-97	<50	<50	---	<0.5	---
B-6	24-Jul-97	2,000	<50	---	0.69	---
B-7	24-Jul-97	120,000	840	---	8.8	---
B-8	24-Jul-97	2,000	<50	---	0.61	---
BM-2	10-Dec-07	28,000	260*	---	<5.0	1,500
BM-3	10-Dec-07	---	<50	---	---	---
BM-4	10-Dec-07	<620	<50	---	<5.0	9,900
BM-5	10-Dec-07	---	<50	---	---	---
BM-6	10-Dec-07	---	<50	---	---	---
BM-7	10-Dec-07	120*	<50	---	<5.0	---
BM-8	10-Dec-07	61,000	54,000*	---	430	---
BM-9	10-Dec-07	1,200*	180*	---	<5.0	---

Notes:

ND = Sample not detected above detection limit; unable to find detection limit in prior sampling reports

< ## = Sample not detected above detection limit of ##

--- = Not sampled/analyzed for this constituent due to limited recovery of groundwater

NS = Not sampled for constituent

* = Atypical pattern

TABLE 5
Historical Monitoring Well Groundwater Summary
Total Petroleum Hydrocarbons and Total Oil & Grease in Groundwater
USF Roadway Express Facility
1708 Wood Street
Oakland, California

Sample Number	Date Sampled	TPH-Diesel	TPH-Gasoline	MTBE	Total Oil & Grease
Analytical Reporting Units		µg/L	µg/L	µg/L	mg/L
MW-1	24-Jul-97	1,200	<50	---	1.4
MW-2	24-Jul-97	940	<50	---	6.2
	17-Dec-07	140	NS	---	<5.0
MW-3	6-Sep-00	65.9	ND	---	ND
	22-Mar-07	<50	<50	<0.5	<4.75
	17-Dec-07	<50	NS		<5.0
MW-4	6-Sep-00	65.7	ND	---	ND
	22-Mar-07	<50	<50	<0.5	<4.75
	17-Dec-07	<50	NS	---	<5.0
MW-5	6-Sep-00	78.7	ND	---	ND
	22-Mar-07	500 HY	<50	<0.5	<4.85
	17-Dec-07	<50	NS	---	<5.0

Notes:

ND = Sample not detected above detection limit; unable to find detection limit in prior sampling reports

< ## = Sample not detected above detection limit of ##

--- = Not sampled/analyzed for this constituent due to limited recovery of groundwater

NS = Not sampled for constituent

FIGURES

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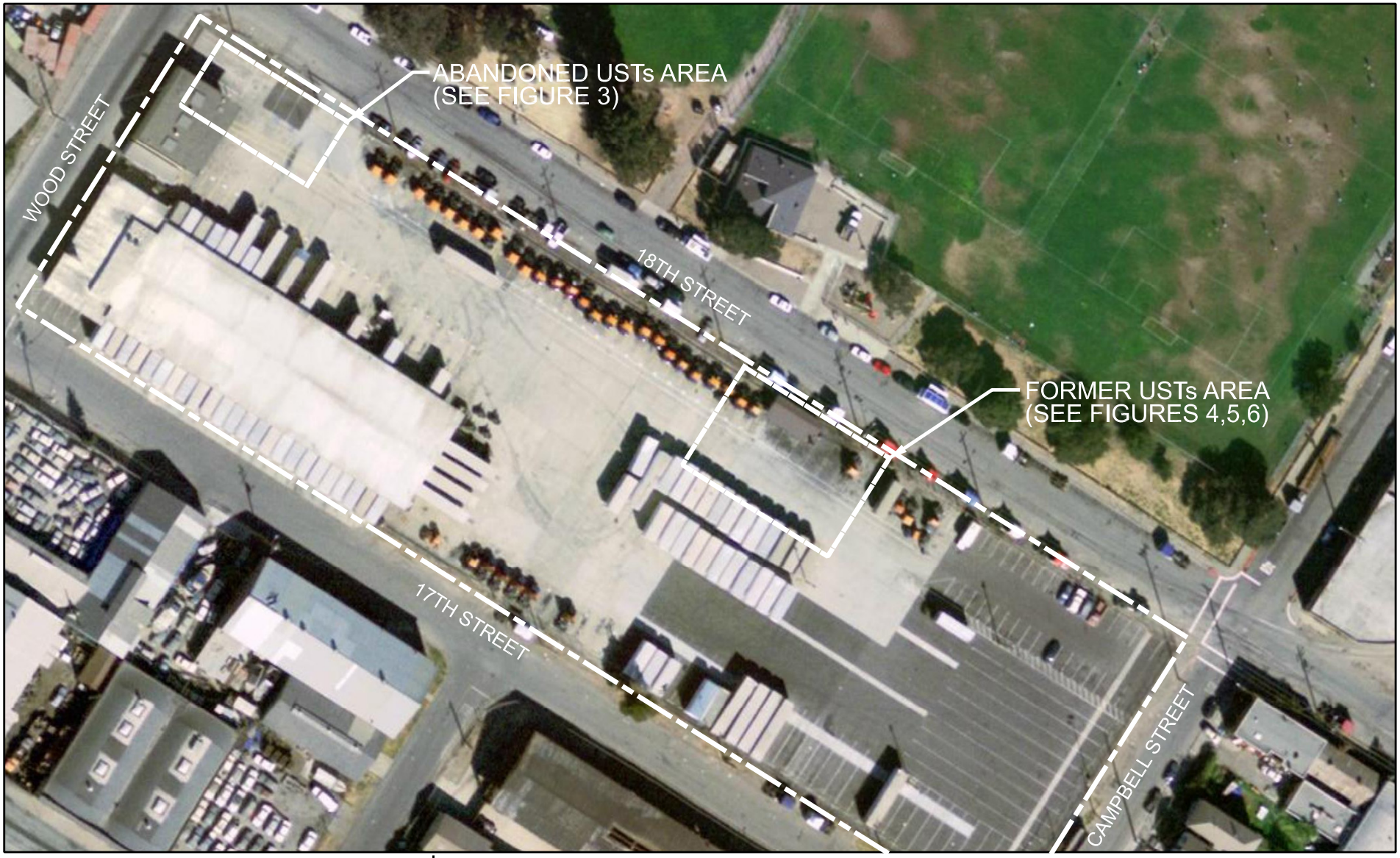
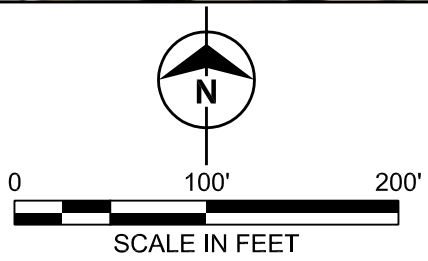
Figure 1

SITE LOCATION MAP
ROADWAY EXPRESS
1708 WOOD STREET
OAKLAND, CA

K:\YRC ENTERPRISE SERVICES INC\YRCW OAKLAND, CA\USTN\SITE\YRC OAKLAND FIG 1.DGN 12-04-2007 16:40 F_BITTNE

COPYRIGHT © 2007 BURNS & McDONNELL ENGINEERING COMPANY, INC.





Burns & McDonnell
SINCE 1898

Figure 2

SITE MAP
ROADWAY EXPRESS
1708 WOOD STREET
OAKLAND, CA

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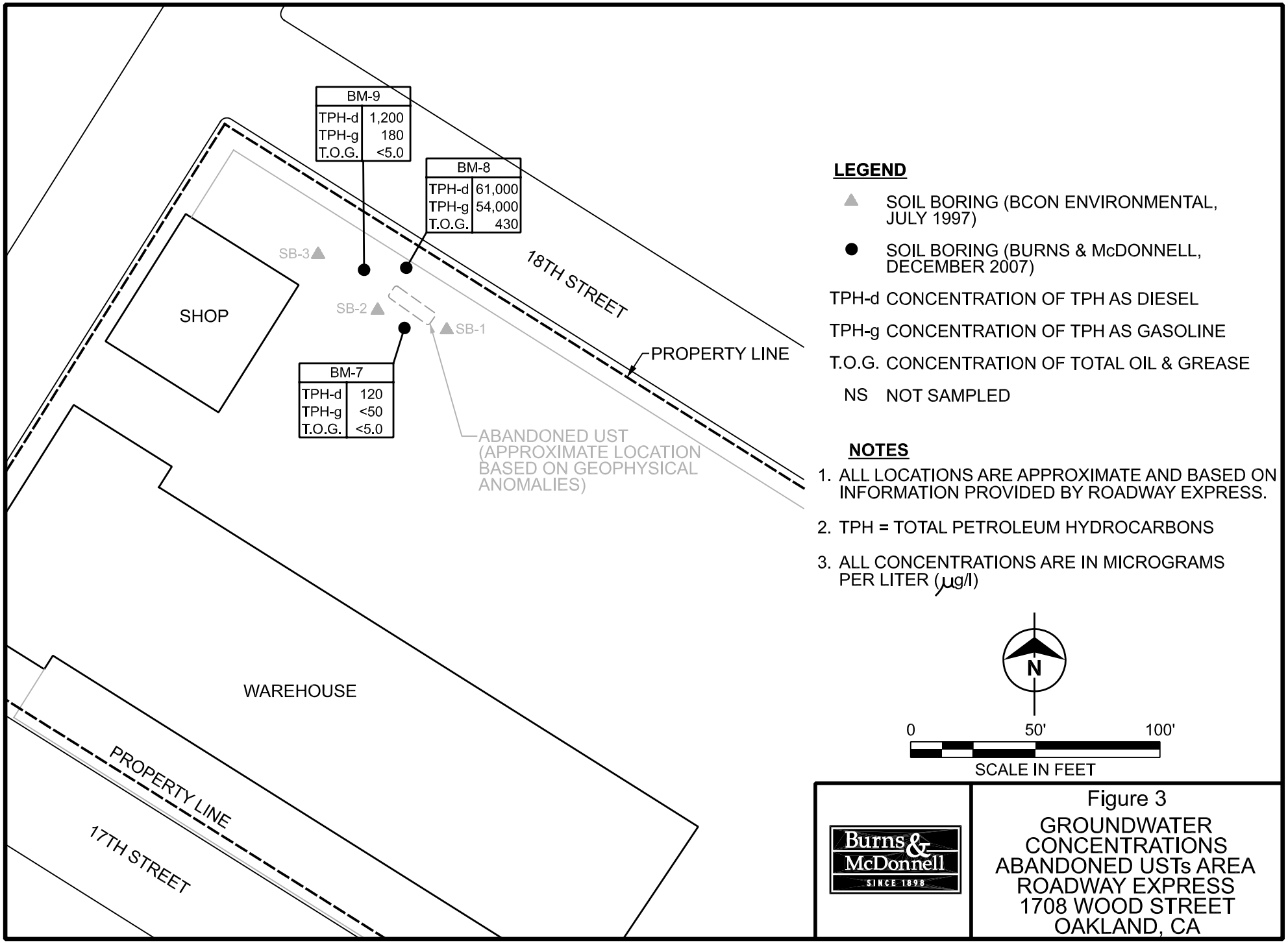

LEGEND

- ▲ SOIL BORING (BCON ENVIRONMENTAL, JULY 1997)
- ● SOIL BORING (BURNS & McDONNELL, DECEMBER 2007)

TPH-d CONCENTRATION OF TPH AS DIESEL

TPH-g CONCENTRATION OF TPH AS GASOLINE

T.O.G. CONCENTRATION OF TOTAL OIL & GREASE

NS NOT SAMPLED

NOTES

1. ALL LOCATIONS ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY ROADWAY EXPRESS.
2. TPH = TOTAL PETROLEUM HYDROCARBONS
3. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/l)

N

0 50' 100'

SCALE IN FEET

Burns & McDonnell SINCE 1898

Figure 3

GROUNDWATER CONCENTRATIONS ABANDONED USTs AREA ROADWAY EXPRESS 1708 WOOD STREET OAKLAND, CA

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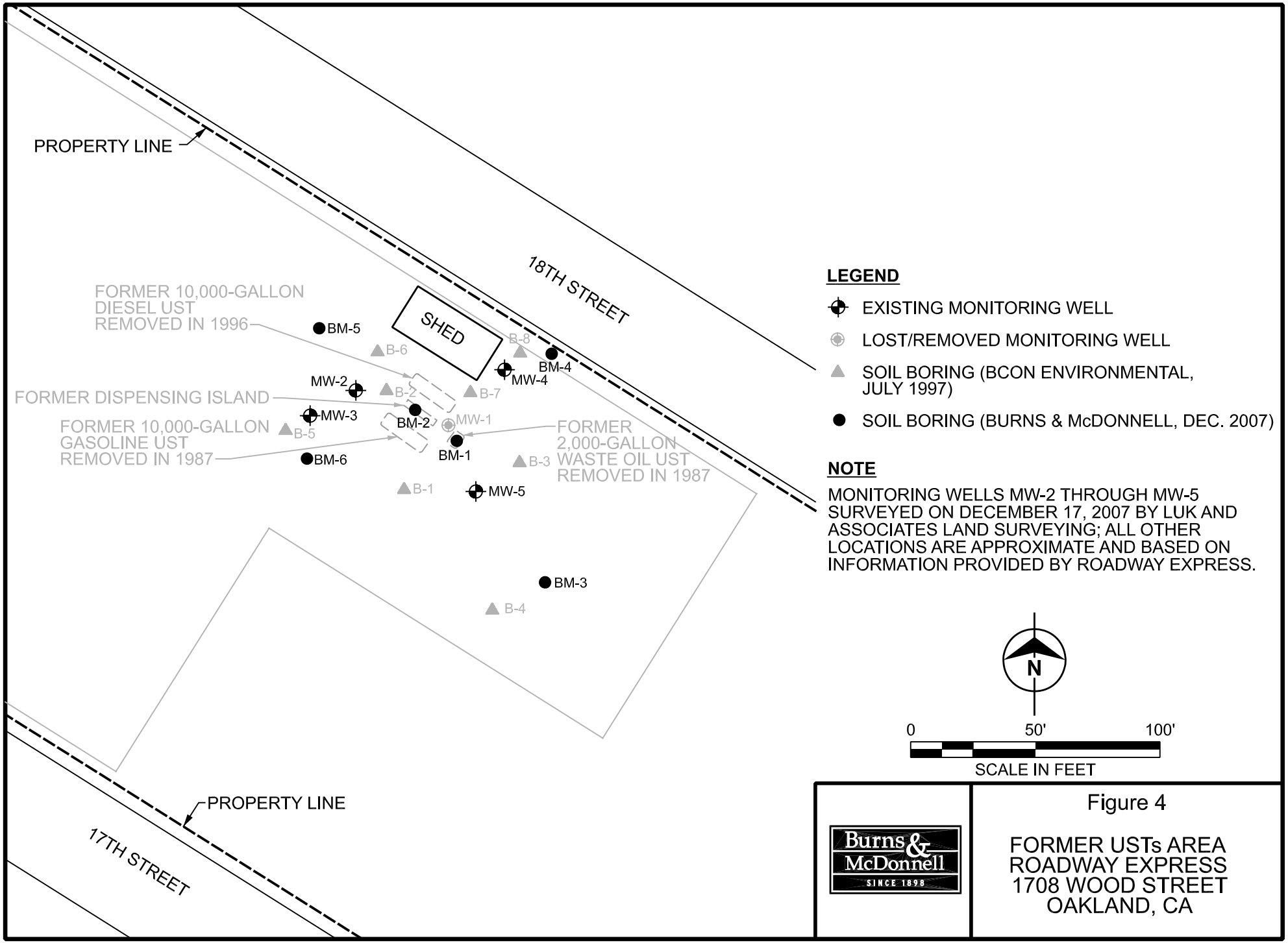

LEGEND

- EXISTING MONITORING WELL
- LOST/REMOVED MONITORING WELL
- SOIL BORING (BCON ENVIRONMENTAL, JULY 1997)
- SOIL BORING (BURNS & McDONNELL, DEC. 2007)

NOTE

MONITORING WELLS MW-2 THROUGH MW-5 SURVEYED ON DECEMBER 17, 2007 BY LUK AND ASSOCIATES LAND SURVEYING; ALL OTHER LOCATIONS ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY ROADWAY EXPRESS.

N

0 50' 100'

SCALE IN FEET

Burns & McDonnell SINCE 1898

Figure 4

FORMER USTs AREA
ROADWAY EXPRESS
1708 WOOD STREET
OAKLAND, CA

K:\YRC ENTERPRISE SERVICES INC\YRCW OAKLAND, CA\UST\N\SITE\YRC OAKLAND DEC07 FIG 4.DGN 12-26-2007 14:40 F_BITTNE

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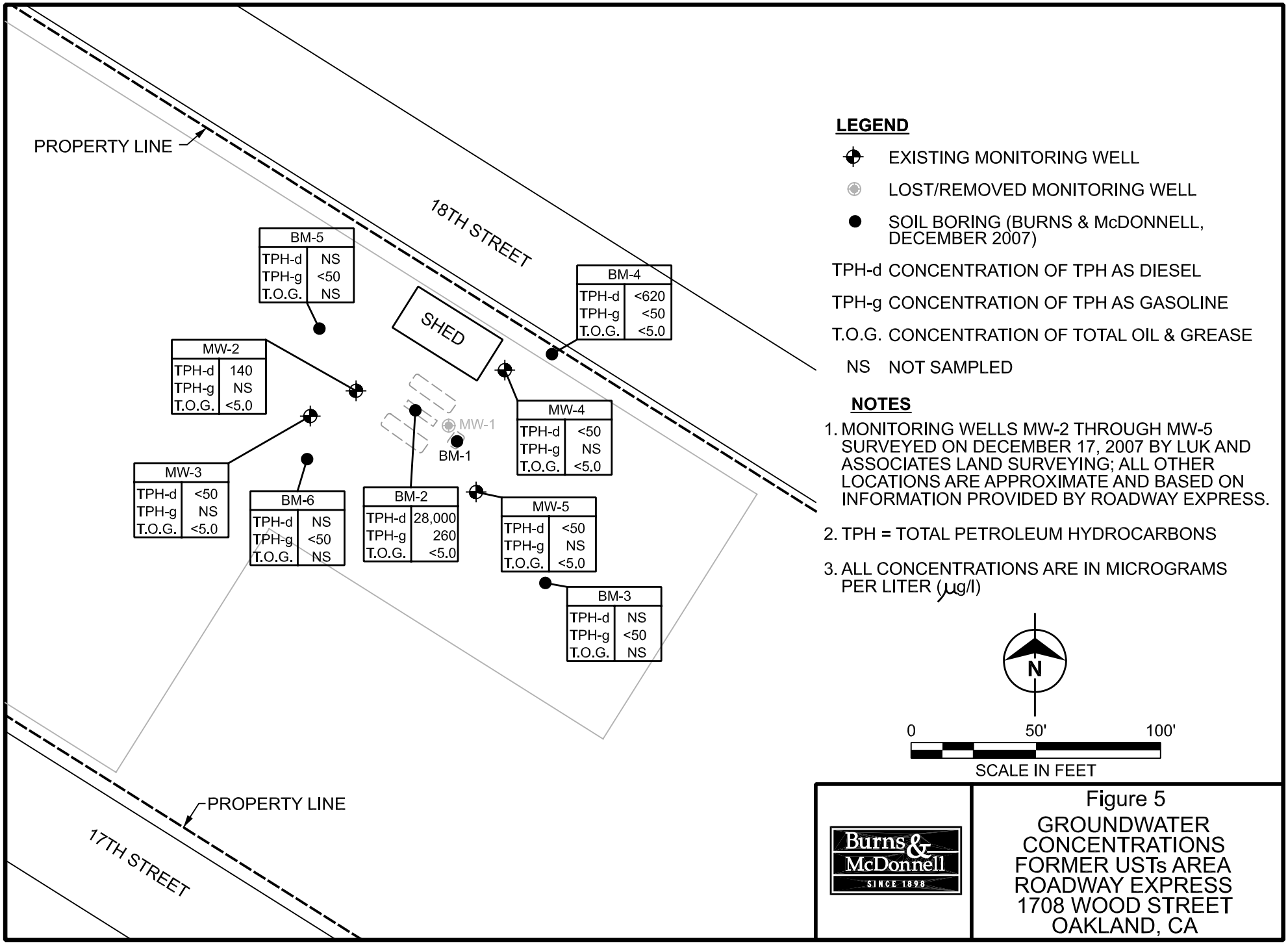

LEGEND

- EXISTING MONITORING WELL
- LOST/REMOVED MONITORING WELL
- SOIL BORING (BURNS & McDONNELL, DECEMBER 2007)

TPH-d CONCENTRATION OF TPH AS DIESEL

TPH-g CONCENTRATION OF TPH AS GASOLINE

T.O.G. CONCENTRATION OF TOTAL OIL & GREASE

NS NOT SAMPLED

NOTES

1. MONITORING WELLS MW-2 THROUGH MW-5 SURVEYED ON DECEMBER 17, 2007 BY LUK AND ASSOCIATES LAND SURVEYING; ALL OTHER LOCATIONS ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY ROADWAY EXPRESS.
2. TPH = TOTAL PETROLEUM HYDROCARBONS
3. ALL CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/l)

N

0 50' 100'

SCALE IN FEET

Burns & McDonnell SINCE 1898

Figure 5

GROUNDWATER CONCENTRATIONS FORMER USTs AREA ROADWAY EXPRESS 1708 WOOD STREET OAKLAND, CA

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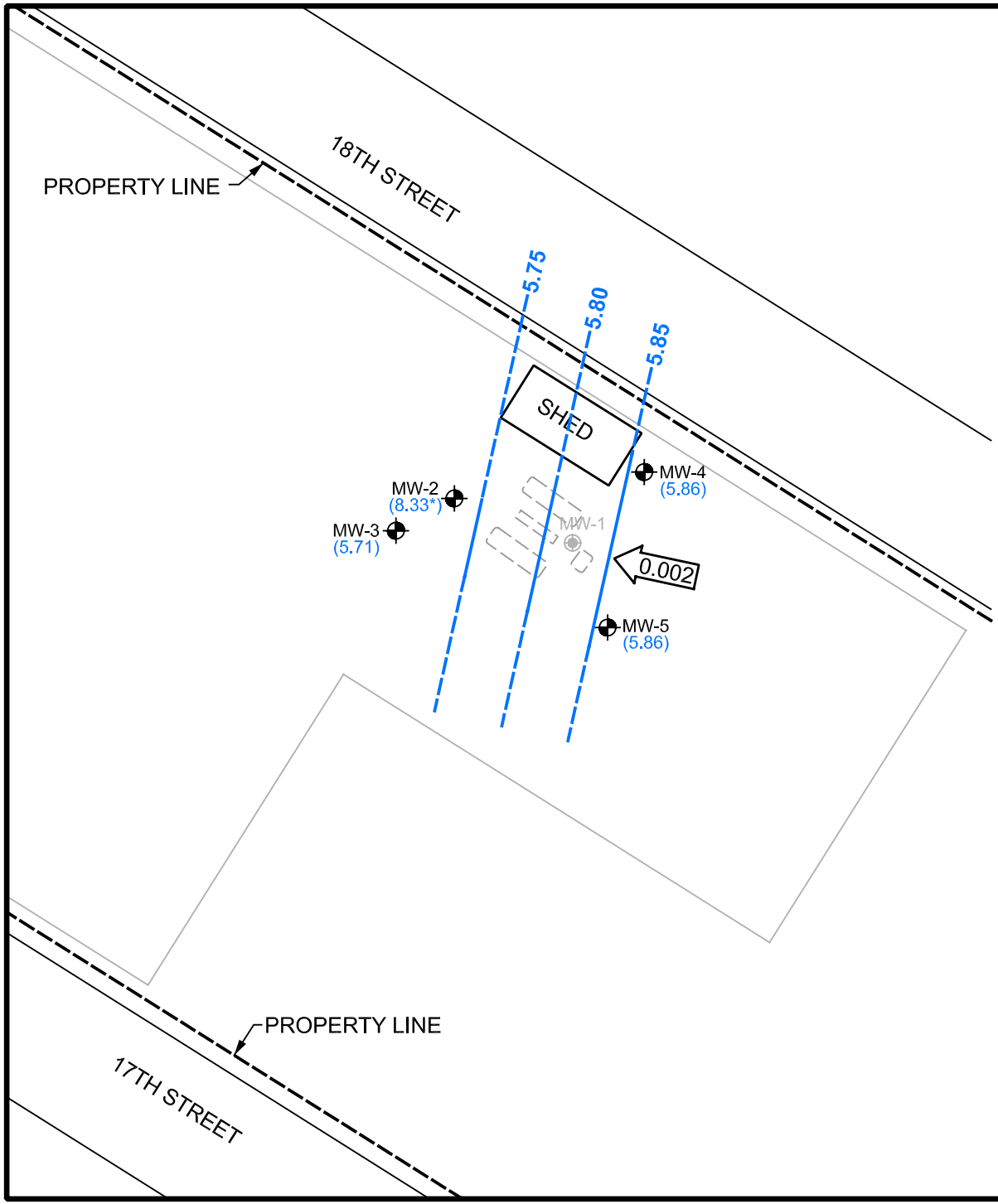


LEGEND

- EXISTING MONITORING WELL
- LOST/REMOVED MONITORING WELL
- (5.86) GROUNDWATER ELEVATION (FT MSL) MEASURED ON DECEMBER 10, 2007.
- GROUNDWATER CONTOUR (FT MSL) - DASHED WHERE INFERRED
- 0.002 GROUNDWATER FLOW DIRECTION AND GRADIENT IN FEET/FOOT
- (8.33*) WATER LEVEL FROM SHALLOW SCREENED INTERVAL DOES NOT CORRELATE TO OTHER WELLS

NOTE

MONITORING WELLS MW-2 THROUGH MW-5 SURVEYED ON DECEMBER 17, 2007 BY LUK AND ASSOCIATES LAND SURVEYING; ALL OTHER LOCATIONS ARE APPROXIMATE AND BASED ON INFORMATION PROVIDED BY ROADWAY EXPRESS.

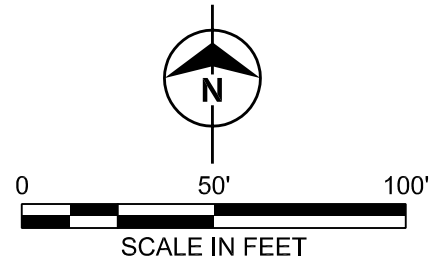


Figure 6

GROUNDWATER ELEVATIONS
FORMER USTs AREA
ROADWAY EXPRESS
1708 WOOD STREET
OAKLAND, CA

K:\YRC ENTERPRISE SERVICES INC\YRCW OAKLAND, CA\USTN\SITE\YRC OAKLAND DEC07 FIG 6.DGN 12-26-2007 14:42 F_BITTNE

APPENDIX A

BORING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit

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

Application Approved on: 11/28/2007 By jamesy

Permit Numbers: W2007-1183
Permits Valid from 12/04/2007 to 12/31/2007

Application Id:	1196279306851	**City of Project Site:**	Oakland
Site Location:	1708 Wood St, Oakland (Roadway Express)		
Project Start Date:	12/03/2007	**Completion Date:**	12/04/2007
Extension Start Date:	12/04/2007	**Extension End Date:**	12/31/2007
Extension Count:	1	**Extended By:**	vickyh1
Applicant:	Burns & McDonnell - Patrick Bratton 393 E Grand Ave #J, South San Francisco, CA 94080	**Phone:**	650-871-2926
Property Owner:	YRCW Enterprises Svc c/o Steve Shinners 10990 Roe Ave., Overland Park, KS 66211	**Phone:**	913-234-8940
Client:	** same as Property Owner **		

	Total Due:	$200.00
Receipt Number: WR2007-0520	**Total Amount Paid:**	$200.00
Payer Name : Burns & McDonnell	Paid By: CHECK	**PAID IN FULL**

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 6 Boreholes
Driller: Vironex - Lic #: 702927 - Method: other **Work Total: $200.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2007-1183	11/28/2007	03/02/2008	6	3.00 in.	20.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of $500.00.

7. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

APPENDIX B

BORING LOGS

Reviewed By: _____

Boring/Well Construction Log

Burns & McDonnell	Project Name	Project Number	Boring/Well Number
	YRCW (USF Reddaway) Oakland	47561	BM-1
	Ground Elevation	Location	Page
		Central-eastern portion of the Site	1 of 1
	Air Monitoring Equipment		Total Footage
			15

Drilling Method	Borehole Size	Casing Type/Diam.	Screen Type/Slot	Depth to Water	Top of Casing Elevation
Geoprobe	3"			8	

Drilling Company:	Vironex	Driller(s):	Bryan and Ed
Drilling Rig:	Geoprobe 6600	Type of Sampler:	Geoprobe
Date:	12/10/07	Logged by:	G. Collins

Depth (feet) BGL	USCS	Lithologic Description	Class	Blow Count	Recov.	Run/ Time	Sample Desig.	Sample	PID (ppm) BZ/BH/S	Well Diagram
		CONCRETE								
	SM	SILTY SAND - dark grayish brown, gravel								
	CL	SILTY CLAY - dark grayish brown, pebbley gravel								
5	CL	CLAY - medium stiff, moderately plastic			40%	1025				
	CL	SANDY CLAY - some silt								
	CL	SANDY CLAY - gray, soft, wet					BM-1-8			▽
10					90%	1030				
15		END OF BORING			50%	1034				

BORING/WELL YF FREMONT.GPJ BURNS&MC.GDT 1/25/08

BZ=Breathing Zone BH=Bore Hole S=Sample

Reviewed By: _____

Boring/Well Construction Log

Burns & McDonnell	Project Name: YRCW (USF Reddaway) Oakland	Project Number: 47561	Boring/Well Number: BM-2
	Ground Elevation:	Location: Central-eastern portion of the Site	Page: 1 of 1
Air Monitoring Equipment			Total Footage: 15

Drilling Method	Borehole Size	Casing Type/Diam.	Screen Type/Slot	Depth to Water	Top of Casing Elevation
Geoprobe	3"			12	

Drilling Company:	Vironex	Driller(s):	Bryan and Ed
Drilling Rig:	Geoprobe 6600	Type of Sampler:	Geoprobe
Date:	12/10/07	Logged by:	G. Collins

Depth (feet) BGL	USCS	Lithologic Description	Class	Blow Count	Recov.	Run/ Time	Sample Desig.	Sample	PID (ppm) BZ/BH/S	Well Diagram
		CONCRETE								
	SM	SILTY SAND - Dark grayish, brown								
	SM	SILTY SAND WITH GRAVEL- abundant subrounded to subangular gravel								
5					20%	955	BM-2 -6			
10					25%	1000				▽
	CL	SANDY CLAY - dark gray, soft, wet, hydrocarbon odor					BM-2-13.5			
15		END OF BORING			35%	1004				

BZ=Breathing Zone BH=Bore Hole S=Sample

BORING/WELL YF FREMONT.GPJ BURNS&MC.GDT 1/25/08

Reviewed By: _____

Boring/Well Construction Log

Burns & McDonnell	Project Name	Project Number	Boring/Well Number
	YRCW (USF Reddaway) Oakland	47561	BM-3
	Ground Elevation	Location	Page
		Central-eastern portion of the Site	1 of 1
Air Monitoring Equipment			Total Footage 15

Drilling Method	Borehole Size	Casing Type/Diam.	Screen Type/Slot	Depth to Water	Top of Casing Elevation
Geoprobe	3"			4	

Drilling Company:	Vironex	Driller(s):	Bryan and Ed
Drilling Rig:	Geoprobe 6600	Type of Sampler:	Geoprobe
Date:	12/10/07	Logged by:	G. Collins

Depth (feet) BGL	USCS	Lithologic Description	Class	Blow Count	Recov.	Run/ Time	Sample Desig.	Sample	PID (ppm) BZ/BH/S	Well Diagram
		CONCRETE								
	SM	SILTY SAND - Dark grayish brown								
	SM	SILTY SAND WITH GRAVEL- angular gravel up to 1-inch in diameter								
	CH	CLAY - moderately plastic, odor, organics, some silt								▽
5		NO RECOVERY			30%	0823				
10					0%	0825				
15		END OF BORING			0%	0826				

BZ=Breathing Zone BH=Bore Hole S=Sample

BORING/WELL YF FREMONT.GPJ BURNS&MC.GDT 1/25/08

Reviewed By: _____

Boring/Well Construction Log

Burns & McDonnell	Project Name	Project Number	Boring/Well Number
	YRCW (USF Reddaway) Oakland	47561	BM-4
	Ground Elevation	Location	Page
		Central-eastern portion of the Site	1 of 1
Air Monitoring Equipment			Total Footage: 15

Drilling Method	Borehole Size	Casing Type/Diam.	Screen Type/Slot	Depth to Water	Top of Casing Elevation
Geoprobe	3"			3	

Drilling Company:	Vironex	Driller(s):	Bryan and Ed
Drilling Rig:	Geoprobe 6600	Type of Sampler:	Geoprobe
Date:	12/10/07	Logged by:	G. Collins

Depth (feet) BGL	USCS	Lithologic Description	Class	Blow Count	Recov.	Run/ Time	Sample Desig.	Sample	PID (ppm) BZ/BH/S	Well Diagram
		CONCRETE								
	SM	SILTY SAND - dark grayish brown, subrounded to subangular pebbley gravel								
	CL	SANDY CLAY - dark gray, soft, wet, some pebbley gravel								▽
	CL	CLAY - dark gray, moderately plastic, moist								
5					50%	1102				
	CH	CLAY - dark gray, moderately plastic-moist, organics								
10		NO RECOVERY			60%	1105				
15		END OF BORING			0%	1109				

BZ=Breathing Zone BH=Bore Hole S=Sample

BORING/WELL YF FREMONT.GPJ BURNS&MC.GDT 1/25/08

Reviewed By: _____

Boring/Well Construction Log

Burns & McDonnell	Project Name	Project Number	Boring/Well Number
	YRCW (USF Reddaway) Oakland	47561	BM-5
	Ground Elevation	Location	Page
		Central-eastern portion of the Site	1 of 1
Air Monitoring Equipment			Total Footage
			15

Drilling Method	Borehole Size	Casing Type/Diam.	Screen Type/Slot	Depth to Water	Top of Casing Elevation
Geoprobe	3"			4	

Drilling Company:	Vironex	Driller(s):	Bryan and Ed
Drilling Rig:	Geoprobe 6600	Type of Sampler:	Geoprobe
Date:	12/10/07	Logged by:	G. Collins

Depth (feet) BGL	USCS	Lithologic Description	Class	Blow Count	Recov.	Run/ Time	Sample Desig.	Sample	PID (ppm) BZ/BH/S	Well Diagram
		CONCRETE								
	SM	SILTY SAND - brown to grayish brown, fine to medium grained sand, pebbley gravel, oxidation staining								
	SM	SILTY SAND - some angular gravel up to 1/2 inch in diameter, wet								▽
5	CL	CLAY - dark grayish brown, soft, non plastic, moist			80%	0900				
10					90%	0905				
	CH	CLAY - dark grayish brown, soft, non plastic, organics, moist								
	CL	CLAY - some fine grained sand								
15		END OF BORING			90%	0907				

BORING/WELL YF FREMONT.GPJ BURNS&MC.GDT 1/25/08

BZ=Breathing Zone BH=Bore Hole S=Sample

Reviewed By: _____

Boring/Well Construction Log

Burns & McDonnell	Project Name	Project Number	Boring/Well Number
	YRCW (USF Reddaway) Oakland	47561	BM-6
	Ground Elevation	Location	Page
		Central-eastern portion of the Site	1 of 1
Air Monitoring Equipment			Total Footage: 15

Drilling Method	Borehole Size	Casing Type/Diam.	Screen Type/Slot	Depth to Water	Top of Casing Elevation
Geoprobe	3"			6.2	

Drilling Company:	Vironex	Driller(s):	Bryan and Ed
Drilling Rig:	Geoprobe 6600	Type of Sampler:	Geoprobe
Date:	12/10/07	Logged by:	G. Collins

Depth (feet) BGL	USCS	Lithologic Description	Class	Blow Count	Recov.	Run/ Time	Sample Desig.	Sample	PID (ppm) BZ/BH/S	Well Diagram
		CONCRETE								
	CL	SANDY CLAY - dark grayish brown, nonplastic, very stiff, some silt								
	CL	SANDY CLAY - dark grayish brown, nonplastic, soft, some silt, moist								
5					25%	1110				
	CL	SANDY CLAY - dark grayish brown, nonplastic, soft, some silt, wet								▽
	CH	SANDY CLAY - dark grayish brown, nonplastic, soft, some silt, organics, wet								
10		NO RECOVERY			90%	1115				
15		END OF BORING			0%	1120				

BZ=Breathing Zone BH=Bore Hole S=Sample

BORING/WELL YF FREMONT.GPJ BURNS&MC.GDT 1/25/08

Reviewed By: _____

Boring/Well Construction Log

Burns & McDonnell	Project Name	Project Number	Boring/Well Number
	YRCW (USF Reddaway) Oakland	47561	BM-7
	Ground Elevation	Location	Page
		North West corner of Site	1 of 1
Air Monitoring Equipment			Total Footage
			15

Drilling Method	Borehole Size	Casing Type/Diam.	Screen Type/Slot	Depth to Water	Top of Casing Elevation
Geoprobe	3"			5.5	

Drilling Company:	Vironex	Driller(s):	Bryan and Ed
Drilling Rig:	Geoprobe 6600	Type of Sampler:	Geoprobe
Date:	12/10/07	Logged by:	G. Collins

Depth (feet) BGL	USCS	Lithologic Description	Class	Blow Count	Recov.	Run/ Time	Sample Desig.	Sample	PID (ppm) BZ/BH/S	Well Diagram
		CONCRETE								
	SM	SILTY SAND - dark grayish brown, subangular to subrounded pebbly gravel, moist								
5					25%	1422				▽
	SM	SILTY SAND - dark grayish brown, subangular to subrounded pebbly gravel, wet					BM-7-6			
	CL	CLAY - gray, soft, moderately plastic, some silt and sand, wet, hydrocarbon odor								
10					80%	1425				
15		END OF BORING			90%	1430				

BZ=Breathing Zone BH=Bore Hole S=Sample

BORING/WELL YF FREMONT.GPJ BURNS&MC.GDT 1/25/08

Reviewed By: _____

Boring/Well Construction Log

Burns & McDonnell	Project Name	Project Number	Boring/Well Number
	YRCW (USF Reddaway) Oakland	47561	BM-8
	Ground Elevation	Location	Page
		North West corner of Site	1 of 1
Air Monitoring Equipment			Total Footage
			15

Drilling Method	Borehole Size	Casing Type/Diam.	Screen Type/Slot	Depth to Water	Top of Casing Elevation
Geoprobe	3"			7.4	

Drilling Company:	Vironex	Driller(s):	Bryan and Ed
Drilling Rig:	Geoprobe 6600	Type of Sampler:	Geoprobe
Date:	12/10/07	Logged by:	G. Collins

Depth (feet) BGL	USCS	Lithologic Description	Class	Blow Count	Recov.	Run/ Time	Sample Desig.	Sample	PID (ppm) BZ/BH/S	Well Diagram
		CONCRETE								
	SM	SILTY SAND - dark grayish brown, fine sand; trace subangular gravel, moist								
5					25%	1408				
	SM	SILTY SAND - dark grayish brown, fine sand; trace subangular gravel, wet, hydrocarbon odor					BM-8-7			▽
	CL	CLAY - soft, moderately plastic, wet, hydrocarbon odor								
10					75%	1412				
15		END OF BORING			80%	1420				

BORING/WELL YF FREMONT.GPJ BURNS&MC.GDT 1/25/08

BZ=Breathing Zone BH=Bore Hole S=Sample

Reviewed By: _____

Boring/Well Construction Log

Burns & McDonnell	Project Name	Project Number	Boring/Well Number
	YRCW (USF Reddaway) Oakland	47561	BM-9
	Ground Elevation	Location	Page
		North West corner of Site	1 of 1
Air Monitoring Equipment			Total Footage
			15

Drilling Method	Borehole Size	Casing Type/Diam.	Screen Type/Slot	Depth to Water	Top of Casing Elevation
Geoprobe	3"			5.4	

Drilling Company:	Vironex	Driller(s):	Bryan and Ed
Drilling Rig:	Geoprobe 6600	Type of Sampler:	Geoprobe
Date:	12/10/07	Logged by:	G. Collins

Depth (feet) BGL	USCS	Lithologic Description	Class	Blow Count	Recov.	Run/ Time	Sample Desig.	Sample	PID (ppm) BZ/BH/S	Well Diagram
		CONCRETE								
	SM	SILTY SAND - brown, fine to medium grained sand, moist								
5	SM	SILTY SAND - dark grayish brown, loose, wet			20%	1345	BM-9-5			▽
	SP	SAND - grayish black, fine to medium grained, loose, wet								
10		NO RECOVERY			50%	1350				
15		END OF BORING			0%	1352				

BORING/WELL YF FREMONT.GPJ BURNS&MC.GDT 1/25/08

BZ=Breathing Zone BH=Bore Hole S=Sample

APPENDIX C

LABORATORY ANALYTICAL REPORTS

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Patrick Bratton
Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080

Lab Certificate Number: 58598
Issued: 12/14/2007

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Final Report

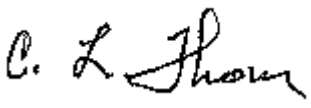
On December 11, 2007, samples were received under chain of custody for analysis.
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

Matrix	Test / Comments
Liquid	n-Hexane extractable material (HEM): EPA 1664
	VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater
	SVOCs: EPA 3535A / EPA 3510C / EPA 8270C
	Mercury: EPA 7470A for Water and Groundwater / EPA 245.1 for Wastewater
	Metals by ICP: EPA 3010A / EPA 6010B for Groundwater and Water - EPA 200.7 for Wastewater
	TPH-Purgeable - GC : EPA 5030B / EPA 8015B
	TPH-Extractable: EPA 3510C / EPA 8015B(M)
Solid	VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B
	SVOCs: EPA 3545A / EPA 8270C
	Mercury: EPA 7471B
	Metals by ICP: EPA 3050B / EPA 6010B
	TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B
	TPH-Extractable: EPA 3545A / EPA 8015B(M)

Case Narrative: On sample 58598-014, only the floating product was analyzed for EPA 8270C.

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
Subcontracted work is the responibility of the subcontract laboratory, this includes turn-around-time and data quality.
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,



C. L. Thom
Laboratory Director

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-001 **Sample ID: BM-2-5** **Matrix:** Solid **Sample Date:** 12/10/2007 10:08 AM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	12/12/2007	SGC071212

Surrogate	Surrogate Recovery	Control Limits (%)	
4-Bromofluorobenzene	105	65 - 135	

Analyzed by: JAbidog
Reviewed by: MaiChiTu

TPH-Extractable: EPA 3545A / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	**8.8**		1.0	5.0	mg/Kg	12/11/2007	SDA071211	12/12/2007	SDA071211

Atypical pattern (C12-C22). In addition, the sample contains 86 mg/Kg Motor Oil.

Surrogate	Surrogate Recovery	Control Limits (%)	
n-Hexacosane	92.2	50 - 150	

Analyzed by: JHsiang
Reviewed by: mtran

Detection Limit = Detection Limit for Reporting.
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ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 **Phone: (408) 588-0200** **Fax: (408) 588-0201**

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-002 **Sample ID: BM-2-13** **Matrix:** Solid **Sample Date:** 12/10/2007 10:00 AM

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	12/12/2007	SGC071212

Surrogate	Surrogate Recovery	Control Limits (%)	
4-Bromofluorobenzene	106	65 - 135	

Analyzed by: JAbidog
Reviewed by: MaiChiTu

TPH-Extractable: EPA 3545A / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	5.0	mg/Kg	12/11/2007	SDA071211	12/12/2007	SDA071211

Surrogate	Surrogate Recovery	Control Limits (%)	
n-Hexacosane	83.3	50 - 150	

Analyzed by: JHsiang
Reviewed by: mtran

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D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-003 **Sample ID: BM-1-8** **Matrix:** Solid **Sample Date:** 12/10/2007 10:36 AM

SVOCs: EPA 3545A / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,2,4-Trichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,2-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,2-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,3-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,3-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,4-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,4-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1-Methylnaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,3,4,6-Tetrachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,3,5,6-Tetrachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4,5-Trichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4,6-Trichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dimethylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dinitrophenol	ND		1.0	2.5	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dinitrotoluene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,6-Dinitrotoluene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Chloronaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Chlorophenol	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Methylnaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Nitrophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3&4-Methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3,3'-Dichlorobenzidine	ND		1.0	2.5	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4,6-Dinitro-2-methylphenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Bromophenyl Phenyl Ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chloro-3-methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chloroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chlorophenyl-phenylether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Nitrophenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Acenaphthene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Acenaphthylene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Aniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Azobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(a)anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(a)pyrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(b)fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(g,h,i)perylene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(k)fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzoic Acid	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzyl Alcohol	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211

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Burns & McDonnell Engineering
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Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-003 **Sample ID: BM-1-8** **Matrix:** Solid **Sample Date:** 12/10/2007 10:36 AM

SVOCs: EPA 3545A / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
bis-(2-Chloroethoxy)methane	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis-(2-Chloroethyl)ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Chloroisopropyl)ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Ethylhexyl)adipate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Ethylhexyl)phthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Butylbenzylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Carbazole	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Chrysene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Di-n-butylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Di-n-octylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dibenzo(a,h)anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dibenzofuran	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Diethylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dimethylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Diphenylamine	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Fluorene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorobutadiene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorocyclopentadiene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachloroethane	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Indeno(1,2,3-cd)pyrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Isophorone	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
N-Nitroso-di-n-propylamine	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
N-Nitrosodimethylamine	ND		1.0	5.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Naphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Nitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1-Methyl-2-pyrrolidinone (NMP)	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pentachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Phenanthrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Phenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pyrene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pyridine	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211

Surrogate	Surrogate Recovery	Control Limits (%)
2,4,6-Tribromophenol	62.4	30 - 100
2-Fluorobiphenyl	44.2	20 - 106
2-Fluorophenol	37.8	20 - 100
Nitrobenzene-d5	37.1	20 - 100
Phenol-d6	47.1	20 - 100
p-Terphenyl-d14	79.0	55 - 130

Analyzed by: Lyu
Reviewed by: mtran

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-003 **Sample ID: BM-1-8** **Matrix:** Solid **Sample Date:** 12/10/2007 10:36 AM

Mercury: EPA 7471B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Mercury	ND		1.0	0.050	mg/Kg	12/12/2007	SHG071212	12/12/2007	SHG071212

Analyzed by: RWipfler
Reviewed by: HDINH

Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Antimony	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Arsenic	**5.1**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Barium	**21**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Beryllium	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Cadmium	**1.4**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Chromium	**44**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Cobalt	**14**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Copper	**19**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Lead	**6.0**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Molybdenum	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Nickel	**65**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Selenium	ND		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Silver	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Thallium	ND		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Vanadium	**36**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Zinc	**51**		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211

Analyzed by: CTran
Reviewed by: HDINH

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-004 **Sample ID: BM-1** **Matrix:** Liquid **Sample Date:** 12/10/2007 11:35 AM

SVOCs: EPA 3535A / EPA 3510C / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,2,4-Trichlorobenzene	ND		1.5	38	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,2-Dichlorobenzene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,2-Dinitrobenzene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,3-Dichlorobenzene	ND		1.5	38	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,3-Dinitrobenzene	ND		1.5	23	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,4-Dichlorobenzene	ND		1.5	38	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,4-Dinitrobenzene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1-Methylnaphthalene	ND		1.5	38	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,3,4,6-Tetrachlorophenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,3,5,6-Tetrachlorophenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4,5-Trichlorophenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4,6-Trichlorophenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dichlorophenol	ND		1.5	38	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dimethylphenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dinitrophenol	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dinitrotoluene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,6-Dinitrotoluene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Chloronaphthalene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Chlorophenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Methylnaphthalene	ND		1.5	38	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Methylphenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Nitroaniline	ND		1.5	23	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Nitrophenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
3&4-Methylphenol	ND		1.5	23	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
3,3'-Dichlorobenzidine	ND		1.5	23	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
3-Nitroaniline	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4,6-Dinitro-2-methylphenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Bromophenyl Phenyl Ether	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Chloro-3-methylphenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Chloroaniline	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Chlorophenyl-phenylether	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Nitroaniline	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Nitrophenol	ND		1.5	23	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Acenaphthene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Acenaphthylene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Aniline	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Anthracene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Azobenzene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(a)anthracene	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(a)pyrene	ND		1.5	46	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(b)fluoranthene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(g,h,i)perylene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(k)fluoranthene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzoic Acid	ND		1.5	23	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzyl Alcohol	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212

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So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-004 **Sample ID: BM-1** **Matrix:** Liquid **Sample Date:** 12/10/2007 11:35 AM

SVOCs: EPA 3535A / EPA 3510C / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
bis-(2-Chloroethoxy)methane	ND		1.5	38	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis-(2-Chloroethyl)ether	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis(2-Chloroisopropyl)ether	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis(2-Ethylhexyl)adipate	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis(2-Ethylhexyl)phthalate	**16**		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Butylbenzylphthalate	ND		1.5	38	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Carbazole	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Chrysene	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Di-n-butylphthalate	ND		1.5	38	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Di-n-octylphthalate	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Dibenzo(a,h)anthracene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Dibenzofuran	ND		1.5	23	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Diethylphthalate	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Dimethylphthalate	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Diphenylamine	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Fluoranthene	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Fluorene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachlorobenzene	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachlorobutadiene	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachlorocyclopentadiene	ND		1.5	38	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachloroethane	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Indeno(1,2,3-cd)pyrene	ND		1.5	23	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Isophorone	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
N-Nitroso-di-n-propylamine	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Naphthalene	ND		1.5	38	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Nitrobenzene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Pentachlorophenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Phenanthrene	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Phenol	ND		1.5	15	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Pyrene	ND		1.5	31	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212

The reporting limits were raised due to insufficient sample volume (high level of sediment).

Surrogate	Surrogate Recovery	Control Limits (%)
2,4,6-Tribromophenol	73.3	25 - 115
2-Fluorobiphenyl	81.4	25 - 106
2-Fluorophenol	82.2	10 - 100
Nitrobenzene-d5	89.7	25 - 100
Phenol-d6	76.6	7 - 100
p-Terphenyl-d14	76.9	35 - 130

Analyzed by: Lyu
Reviewed by: mtran

Mercury: EPA 7470A for Water and Groundwater / EPA 245.1 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Mercury	ND		1.0	0.0002	mg/L	12/13/2007	WHG071213	12/13/2007	WHG071213

Analyzed by: RWipfler
Reviewed by: HDINH

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-004 **Sample ID: BM-1** **Matrix:** Liquid **Sample Date:** 12/10/2007 11:35 AM

Metals by ICP: EPA 3010A / EPA 6010B for Groundwater and Water - EPA 200.7 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Antimony	**0.063**		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Arsenic	**0.43**		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Barium	**5.6**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Beryllium	ND		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Cadmium	**0.016**		1.0	0.0020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Chromium	**5.5**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Cobalt	**0.61**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Copper	**2.9**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Lead	**9.2**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Molybdenum	ND		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Nickel	**3.5**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Selenium	ND		1.0	0.020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Silver	ND		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Thallium	ND		1.0	0.020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Vanadium	**4.0**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Zinc	**7.2**		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212

Analyzed by: CTran
Reviewed by: HDINH

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Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-005 **Sample ID: BM-2** **Matrix:** Liquid **Sample Date:** 12/10/2007 11:30 AM

n-Hexane extractable material (HEM): EPA 1664

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease (HEM)	ND		1.0	5.0	mg/L	N/A	N/A	12/12/2007	WOGHEM071211

Analyzed by: MFelix
Reviewed by: rlazaro

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	**260**		4.0	200	µg/L	N/A	N/A	12/12/2007	WGC071211
Atypical pattern.									

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	141 ***	65 - 135

*** Surrogate % recovery was outside QC limits due to matrix interference.

Analyzed by: JAbidog
Reviewed by: MaiChiTu

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	**28000**		53	2700	µg/L	12/13/2007	WDA071213	12/13/2007	WDA071213
In addition, the sample contains 15000 µg/L Motor Oil (C26-C40).									

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	58.5	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

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Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-006 **Sample ID: BM-5** **Matrix:** Liquid **Sample Date:** 12/10/2007 2:45 PM

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	12/12/2007	WGC071211

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	106	65 - 135

Analyzed by: JAbidog
Reviewed by: MaiChiTu

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ND = Not Detected at or above the Detection Limit.
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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-007 **Sample ID: BM-4** **Matrix:** Liquid **Sample Date:** 12/10/2007 12:05 PM

n-Hexane extractable material (HEM): EPA 1664

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease (HEM)	ND		1.0	5.0	mg/L	N/A	N/A	12/12/2007	WOGHEM071211

Analyzed by: MFelix
Reviewed by: rlazaro

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	12/12/2007	WGC071211

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	108	65 - 135

Analyzed by: JAbidog
Reviewed by: MaiChiTu

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		12	620	µg/L	12/13/2007	WDA071213	12/13/2007	WDA071213

In addition, the sample contains 9900 µg/L Motor Oil (C26-C40).

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	58.2	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
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Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-008 **Sample ID: BM-3** **Matrix:** Liquid **Sample Date:** 12/10/2007 2:05 PM

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	12/12/2007	WGC071211

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	106	65 - 135

Analyzed by: JAbidog
Reviewed by: MaiChiTu

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D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-009 **Sample ID: BM-7-6** **Matrix:** Solid **Sample Date:** 12/10/2007 2:30 PM

VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1,1-Trichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1,2,2-Tetrachloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1,2-Trichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1-Dichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1-Dichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1-Dichloropropene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,3-Trichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dibromoethane (EDB)	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,3-Dichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,3-Dichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,4-Dichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,4-Dioxane	ND		1.0	200	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2,2-Dichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Butanone (MEK)	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Chloroethyl-vinyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Chlorotoluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Hexanone	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
4-Chlorotoluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
4-Methyl-2-Pentanone(MIBK)	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acetone	ND		1.0	100	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acetonitrile	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acrolein	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acrylonitrile	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Benzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Benzyl Chloride	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromochloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromodichloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromoform	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromomethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Carbon Disulfide	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Carbon Tetrachloride	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chloroform	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-009 **Sample ID: BM-7-6** **Matrix:** Solid **Sample Date:** 12/10/2007 2:30 PM

VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,2-Dichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
cis-1,3-Dichloropropene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Cyclohexanone	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Dibromochloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Dibromomethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Dichlorodifluoromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Diisopropyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Ethyl Benzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Freon 113	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Hexachlorobutadiene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Iodomethane	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Isopropanol	ND		1.0	100	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Isopropylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Methyl-t-butyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Methylene Chloride	ND		1.0	50	µg/Kg	N/A	N/A	12/12/2007	SM3071212
n-Butylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
n-Propylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Naphthalene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
p-Isopropyltoluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Pentachloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
sec-Butylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Styrene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Butanol (TBA)	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Butylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Tetrachloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Tetrahydrofuran	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Toluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
trans-1,2-Dichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
trans-1,3-Dichloropropene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
trans-1,4-Dichloro-2-butene	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Trichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Trichlorofluoromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Vinyl Acetate	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Vinyl Chloride	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Xylenes, Total	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	96.5	60 - 130
Dibromofluoromethane	113	60 - 130
Toluene-d8	100	60 - 130

Analyzed by: EricKum
Reviewed by: MaiChiTu

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ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-009 **Sample ID: BM-7-6** **Matrix:** Solid **Sample Date:** 12/10/2007 2:30 PM

SVOCs: EPA 3545A / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,2,4-Trichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,2-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,2-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,3-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,3-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,4-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,4-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1-Methylnaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,3,4,6-Tetrachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,3,5,6-Tetrachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4,5-Trichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4,6-Trichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dimethylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dinitrophenol	ND		1.0	2.5	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dinitrotoluene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,6-Dinitrotoluene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Chloronaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Chlorophenol	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Methylnaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Nitrophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3&4-Methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3,3'-Dichlorobenzidine	ND		1.0	2.5	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4,6-Dinitro-2-methylphenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Bromophenyl Phenyl Ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chloro-3-methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chloroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chlorophenyl-phenylether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Nitrophenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Acenaphthene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Acenaphthylene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Aniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Azobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(a)anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(a)pyrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(b)fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(g,h,i)perylene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(k)fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzoic Acid	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzyl Alcohol	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211

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ND = Not Detected at or above the Detection Limit.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
Qual = Data Qualifier

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-009 **Sample ID: BM-7-6** **Matrix:** Solid **Sample Date:** 12/10/2007 2:30 PM

SVOCs: EPA 3545A / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
bis-(2-Chloroethoxy)methane	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis-(2-Chloroethyl)ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Chloroisopropyl)ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Ethylhexyl)adipate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Ethylhexyl)phthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Butylbenzylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Carbazole	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Chrysene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Di-n-butylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Di-n-octylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dibenzo(a,h)anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dibenzofuran	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Diethylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dimethylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Diphenylamine	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Fluorene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorobutadiene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorocyclopentadiene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachloroethane	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Indeno(1,2,3-cd)pyrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Isophorone	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
N-Nitroso-di-n-propylamine	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
N-Nitrosodimethylamine	ND		1.0	5.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Naphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Nitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1-Methyl-2-pyrrolidinone (NMP)	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pentachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Phenanthrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Phenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pyrene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pyridine	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211

Surrogate	Surrogate Recovery	Control Limits (%)
2,4,6-Tribromophenol	58.8	30 - 100
2-Fluorobiphenyl	41.0	20 - 106
2-Fluorophenol	32.7	20 - 100
Nitrobenzene-d5	34.7	20 - 100
Phenol-d6	34.8	20 - 100
p-Terphenyl-d14	82.2	55 - 130

Analyzed by: Lyu
Reviewed by: mtran

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Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-009 **Sample ID: BM-7-6** **Matrix:** Solid **Sample Date:** 12/10/2007 2:30 PM

Mercury: EPA 7471B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Mercury	ND		1.0	0.050	mg/Kg	12/12/2007	SHG071212	12/12/2007	SHG071212

Analyzed by: RWipfler
Reviewed by: HDINH

Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Antimony	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Arsenic	**3.2**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Barium	**34**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Beryllium	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Cadmium	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Chromium	**50**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Cobalt	**8.0**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Copper	**23**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Lead	**9.6**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Molybdenum	**1.4**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Nickel	**37**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Selenium	ND		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Silver	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Thallium	ND		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Vanadium	**41**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Zinc	**61**		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211

Analyzed by: CTran
Reviewed by: HDINH

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	12/12/2007	SGC071212

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	105	65 - 135

Analyzed by: JAbidog
Reviewed by: MaiChiTu

TPH-Extractable: EPA 3545A / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	5.0	mg/Kg	12/11/2007	SDA071211	12/12/2007	SDA071211

In addition, the sample contains 86 mg/Kg Motor Oil.

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	94.6	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

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ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-010 **Sample ID: BM-8-7** **Matrix:** Solid **Sample Date:** 12/10/2007 2:15 PM

VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1,1-Trichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1,2,2-Tetrachloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1,2-Trichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1-Dichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1-Dichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1-Dichloropropene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,3-Trichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dibromoethane (EDB)	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,3-Dichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,3-Dichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,4-Dichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,4-Dioxane	ND		1.0	200	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2,2-Dichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Butanone (MEK)	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Chloroethyl-vinyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Chlorotoluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Hexanone	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
4-Chlorotoluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
4-Methyl-2-Pentanone(MIBK)	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acetone	**110**		1.0	100	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acetonitrile	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acrolein	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acrylonitrile	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Benzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Benzyl Chloride	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromochloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromodichloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromoform	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromomethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Carbon Disulfide	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Carbon Tetrachloride	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chloroform	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212

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3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-010 **Sample ID: BM-8-7** **Matrix:** Solid **Sample Date:** 12/10/2007 2:15 PM

VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,2-Dichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
cis-1,3-Dichloropropene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Cyclohexanone	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Dibromochloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Dibromomethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Dichlorodifluoromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Diisopropyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Ethyl Benzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Freon 113	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Hexachlorobutadiene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Iodomethane	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Isopropanol	ND		1.0	100	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Isopropylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Methyl-t-butyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Methylene Chloride	ND		1.0	50	µg/Kg	N/A	N/A	12/12/2007	SM3071212
n-Butylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
n-Propylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Naphthalene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
p-Isopropyltoluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Pentachloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
sec-Butylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Styrene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Butanol (TBA)	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Butylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Tetrachloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Tetrahydrofuran	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Toluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
trans-1,2-Dichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
trans-1,3-Dichloropropene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
trans-1,4-Dichloro-2-butene	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Trichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Trichlorofluoromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Vinyl Acetate	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Vinyl Chloride	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Xylenes, Total	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	99.2	60 - 130
Dibromofluoromethane	119	60 - 130
Toluene-d8	98.5	60 - 130

Analyzed by: EricKum
Reviewed by: MaiChiTu

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Qual = Data Qualifier

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3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-010 **Sample ID: BM-8-7** **Matrix:** Solid **Sample Date:** 12/10/2007 2:15 PM

SVOCs: EPA 3545A / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,2,4-Trichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,2-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,2-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,3-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,3-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,4-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,4-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1-Methylnaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,3,4,6-Tetrachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,3,5,6-Tetrachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4,5-Trichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4,6-Trichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dimethylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dinitrophenol	ND		1.0	2.5	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dinitrotoluene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,6-Dinitrotoluene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Chloronaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Chlorophenol	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Methylnaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Nitrophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3&4-Methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3,3'-Dichlorobenzidine	ND		1.0	2.5	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4,6-Dinitro-2-methylphenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Bromophenyl Phenyl Ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chloro-3-methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chloroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chlorophenyl-phenylether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Nitrophenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Acenaphthene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Acenaphthylene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Aniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Azobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(a)anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(a)pyrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(b)fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(g,h,i)perylene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(k)fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzoic Acid	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzyl Alcohol	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211

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Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-010 **Sample ID: BM-8-7** **Matrix:** Solid **Sample Date:** 12/10/2007 2:15 PM

SVOCs: EPA 3545A / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
bis-(2-Chloroethoxy)methane	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis-(2-Chloroethyl)ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Chloroisopropyl)ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Ethylhexyl)adipate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Ethylhexyl)phthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Butylbenzylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Carbazole	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Chrysene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Di-n-octylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dibenzo(a,h)anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dibenzofuran	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Diethylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dimethylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Diphenylamine	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Fluorene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorobutadiene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorocyclopentadiene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachloroethane	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Indeno(1,2,3-cd)pyrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Isophorone	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
N-Nitroso-di-n-propylamine	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
N-Nitrosodimethylamine	ND		1.0	5.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Naphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Nitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1-Methyl-2-pyrrolidinone (NMP)	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pentachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Phenanthrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Phenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pyrene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pyridine	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211

Surrogate	Surrogate Recovery	Control Limits (%)
2,4,6-Tribromophenol	62.7	30 - 100
2-Fluorobiphenyl	50.5	20 - 106
2-Fluorophenol	45.7	20 - 100
Nitrobenzene-d5	32.6	20 - 100
Phenol-d6	46.2	20 - 100
p-Terphenyl-d14	68.9	55 - 130

Analyzed by: Lyu
Reviewed by: mtran

Detection Limit = Detection Limit for Reporting.
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ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Burns & McDonnell Engineering
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So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-010 **Sample ID: BM-8-7** **Matrix:** Solid **Sample Date:** 12/10/2007 2:15 PM

Mercury: EPA 7471B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Mercury	**0.25**		1.0	0.050	mg/Kg	12/12/2007	SHG071212	12/12/2007	SHG071212

Analyzed by: RWipfler
Reviewed by: HDINH

Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Antimony	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Arsenic	**5.4**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Barium	**54**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Beryllium	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Cadmium	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Chromium	**42**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Cobalt	**5.3**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Copper	**36**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Lead	**49**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Molybdenum	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Nickel	**26**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Selenium	ND		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Silver	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Thallium	ND		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Vanadium	**35**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Zinc	**100**		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211

Analyzed by: CTran
Reviewed by: HDINH

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	12/12/2007	SGC071212

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	117	65 - 135

Analyzed by: JAbidog
Reviewed by: MaiChiTu

TPH-Extractable: EPA 3545A / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		25	120	mg/Kg	12/11/2007	SDA071211	12/13/2007	SDA071211

In addition, the sample contains 1700 mg/Kg Motor Oil.

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	93.8	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

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Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-011 **Sample ID: BM-9-5** **Matrix:** Solid **Sample Date:** 12/10/2007 1:55 PM

VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1,1-Trichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1,2,2-Tetrachloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1,2-Trichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1-Dichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1-Dichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,1-Dichloropropene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,3-Trichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dibromoethane (EDB)	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dichloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,2-Dichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,3-Dichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,3-Dichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,4-Dichlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
1,4-Dioxane	ND		1.0	200	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2,2-Dichloropropane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Butanone (MEK)	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Chloroethyl-vinyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Chlorotoluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
2-Hexanone	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
4-Chlorotoluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
4-Methyl-2-Pentanone(MIBK)	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acetone	ND		1.0	100	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acetonitrile	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acrolein	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Acrylonitrile	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Benzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Benzyl Chloride	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromochloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromodichloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromoform	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Bromomethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Carbon Disulfide	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Carbon Tetrachloride	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chlorobenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chloroform	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Chloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212

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Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-011 **Sample ID: BM-9-5** **Matrix:** Solid **Sample Date:** 12/10/2007 1:55 PM

VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
cis-1,2-Dichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
cis-1,3-Dichloropropene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Cyclohexanone	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Dibromochloromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Dibromomethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Dichlorodifluoromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Diisopropyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Ethyl Benzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Freon 113	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Hexachlorobutadiene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Iodomethane	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Isopropanol	ND		1.0	100	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Isopropylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Methyl-t-butyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Methylene Chloride	ND		1.0	50	µg/Kg	N/A	N/A	12/12/2007	SM3071212
n-Butylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
n-Propylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Naphthalene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
p-Isopropyltoluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Pentachloroethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
sec-Butylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Styrene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Amyl Methyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Butanol (TBA)	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Butyl Ethyl Ether	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
tert-Butylbenzene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Tetrachloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Tetrahydrofuran	ND		1.0	40	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Toluene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
trans-1,2-Dichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
trans-1,3-Dichloropropene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
trans-1,4-Dichloro-2-butene	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Trichloroethene	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Trichlorofluoromethane	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Vinyl Acetate	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Vinyl Chloride	ND		1.0	5.0	µg/Kg	N/A	N/A	12/12/2007	SM3071212
Xylenes, Total	ND		1.0	10	µg/Kg	N/A	N/A	12/12/2007	SM3071212

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	104	60 - 130
Dibromofluoromethane	108	60 - 130
Toluene-d8	98.2	60 - 130

Analyzed by: EricKum
Reviewed by: MaiChiTu

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-011 **Sample ID: BM-9-5** **Matrix:** Solid **Sample Date:** 12/10/2007 1:55 PM

SVOCs: EPA 3545A / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,2,4-Trichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,2-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,2-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,3-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,3-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,4-Dichlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1,4-Dinitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1-Methylnaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,3,4,6-Tetrachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,3,5,6-Tetrachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4,5-Trichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4,6-Trichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dichlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dimethylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dinitrophenol	ND		1.0	2.5	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,4-Dinitrotoluene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2,6-Dinitrotoluene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Chloronaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Chlorophenol	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Methylnaphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
2-Nitrophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3&4-Methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3,3'-Dichlorobenzidine	ND		1.0	2.5	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
3-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4,6-Dinitro-2-methylphenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Bromophenyl Phenyl Ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chloro-3-methylphenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chloroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Chlorophenyl-phenylether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Nitroaniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
4-Nitrophenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Acenaphthene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Acenaphthylene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Aniline	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Azobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(a)anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(a)pyrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(b)fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(g,h,i)perylene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzo(k)fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzoic Acid	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Benzyl Alcohol	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211

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Qual = Data Qualifier

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3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-011 **Sample ID: BM-9-5** **Matrix:** Solid **Sample Date:** 12/10/2007 1:55 PM

SVOCs: EPA 3545A / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
bis-(2-Chloroethoxy)methane	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis-(2-Chloroethyl)ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Chloroisopropyl)ether	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Ethylhexyl)adipate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
bis(2-Ethylhexyl)phthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Butylbenzylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Carbazole	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Chrysene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Di-n-butylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Di-n-octylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dibenzo(a,h)anthracene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dibenzofuran	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Diethylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Dimethylphthalate	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Diphenylamine	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Fluoranthene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Fluorene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorobutadiene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachlorocyclopentadiene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Hexachloroethane	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Indeno(1,2,3-cd)pyrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Isophorone	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
N-Nitroso-di-n-propylamine	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
N-Nitrosodimethylamine	ND		1.0	5.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Naphthalene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Nitrobenzene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
1-Methyl-2-pyrrolidinone (NMP)	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pentachlorophenol	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Phenanthrene	ND		1.0	0.50	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Phenol	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pyrene	ND		1.0	1.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211
Pyridine	ND		1.0	2.0	mg/Kg	12/11/2007	SVS071211	12/12/2007	SVS071211

Surrogate	Surrogate Recovery	Control Limits (%)
2,4,6-Tribromophenol	56.8	30 - 100
2-Fluorobiphenyl	46.4	20 - 106
2-Fluorophenol	40.0	20 - 100
Nitrobenzene-d5	43.3	20 - 100
Phenol-d6	42.5	20 - 100
p-Terphenyl-d14	104	55 - 130

Analyzed by: Lyu
Reviewed by: mtran

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-011 **Sample ID: BM-9-5** **Matrix:** Solid **Sample Date:** 12/10/2007 1:55 PM

Mercury: EPA 7471B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Mercury	ND		1.0	0.050	mg/Kg	12/12/2007	SHG071212	12/12/2007	SHG071212

Analyzed by: RWipfler
Reviewed by: HDINH

Metals by ICP: EPA 3050B / EPA 6010B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Antimony	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Arsenic	**2.8**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Barium	**94**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Beryllium	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Cadmium	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Chromium	**31**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Cobalt	**7.7**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Copper	**28**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Lead	**22**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Molybdenum	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Nickel	**25**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Selenium	ND		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Silver	ND		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Thallium	ND		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Vanadium	**33**		1.0	1.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211
Zinc	**70**		1.0	2.0	mg/Kg	12/11/2007	SM071211	12/11/2007	SM071211

Analyzed by: CTran
Reviewed by: HDINH

TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	0.50	mg/Kg	N/A	N/A	12/12/2007	SGC071212

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	113	65 - 135

Analyzed by: JAbidog
Reviewed by: MaiChiTu

TPH-Extractable: EPA 3545A / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	5.0	mg/Kg	12/11/2007	SDA071211	12/12/2007	SDA071211

In addition, the sample contains 83 mg/Kg Motor Oil.

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	78.3	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-012 **Sample ID: BM-6** **Matrix:** Liquid **Sample Date:** 12/10/2007 3:35 PM

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	12/12/2007	WGC071211

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	104	65 - 135

Analyzed by: JAbidog
Reviewed by: MaiChiTu

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-013 **Sample ID: BM-7** **Matrix:** Liquid **Sample Date:** 12/10/2007 4:15 PM

n-Hexane extractable material (HEM): EPA 1664

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease (HEM)	ND		1.0	5.0	mg/L	N/A	N/A	12/12/2007	WOGHEM071211

Analyzed by: MFelix
Reviewed by: rlazaro

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Project Number: 47561
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Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-013 **Sample ID: BM-7** **Matrix:** Liquid **Sample Date:** 12/10/2007 4:15 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,3-Trichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Methyl-t-butyl Ether	**2.3**		1.0	1.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Methylene Chloride	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212

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Project Number: 47561
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Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-013 **Sample ID: BM-7** **Matrix:** Liquid **Sample Date:** 12/10/2007 4:15 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	109	60 - 130
Dibromofluoromethane	106	60 - 130
Toluene-d8	97.2	60 - 130

Analyzed by: Bela
Reviewed by: MaiChiTu

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Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-013 **Sample ID: BM-7** **Matrix:** Liquid **Sample Date:** 12/10/2007 4:15 PM

SVOCs: EPA 3535A / EPA 3510C / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,2,4-Trichlorobenzene	ND		1.1	28	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,2-Dichlorobenzene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,2-Dinitrobenzene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,3-Dichlorobenzene	ND		1.1	28	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,3-Dinitrobenzene	ND		1.1	17	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,4-Dichlorobenzene	ND		1.1	28	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,4-Dinitrobenzene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1-Methylnaphthalene	ND		1.1	28	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,3,4,6-Tetrachlorophenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,3,5,6-Tetrachlorophenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4,5-Trichlorophenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4,6-Trichlorophenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dichlorophenol	ND		1.1	28	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dimethylphenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dinitrophenol	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dinitrotoluene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,6-Dinitrotoluene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Chloronaphthalene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Chlorophenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Methylnaphthalene	ND		1.1	28	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Methylphenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Nitroaniline	ND		1.1	17	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Nitrophenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
3&4-Methylphenol	ND		1.1	17	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
3,3'-Dichlorobenzidine	ND		1.1	17	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
3-Nitroaniline	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4,6-Dinitro-2-methylphenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Bromophenyl Phenyl Ether	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Chloro-3-methylphenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Chloroaniline	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Chlorophenyl-phenylether	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Nitroaniline	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Nitrophenol	ND		1.1	17	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Acenaphthene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Acenaphthylene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Aniline	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Anthracene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Azobenzene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(a)anthracene	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(a)pyrene	ND		1.1	33	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(b)fluoranthene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(g,h,i)perylene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(k)fluoranthene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzoic Acid	ND		1.1	17	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzyl Alcohol	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212

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So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-013 **Sample ID: BM-7** **Matrix:** Liquid **Sample Date:** 12/10/2007 4:15 PM

SVOCs: EPA 3535A / EPA 3510C / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
bis-(2-Chloroethoxy)methane	ND		1.1	28	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis-(2-Chloroethyl)ether	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis(2-Chloroisopropyl)ether	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis(2-Ethylhexyl)adipate	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis(2-Ethylhexyl)phthalate	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Butylbenzylphthalate	ND		1.1	28	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Carbazole	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Chrysene	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Di-n-butylphthalate	ND		1.1	28	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Di-n-octylphthalate	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Dibenzo(a,h)anthracene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Dibenzofuran	ND		1.1	17	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Diethylphthalate	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Dimethylphthalate	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Diphenylamine	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Fluoranthene	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Fluorene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachlorobenzene	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachlorobutadiene	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachlorocyclopentadiene	ND		1.1	28	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachloroethane	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Indeno(1,2,3-cd)pyrene	ND		1.1	17	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Isophorone	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
N-Nitroso-di-n-propylamine	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Naphthalene	ND		1.1	28	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Nitrobenzene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Pentachlorophenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Phenanthrene	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Phenol	ND		1.1	11	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Pyrene	ND		1.1	22	µg/L	12/12/2007	SVW071212	12/12/2007	SVW071212

The reporting limits were raised due to insufficient sample volume (high level of sediment).

Surrogate	Surrogate Recovery	Control Limits (%)
2,4,6-Tribromophenol	89.5	25 - 115
2-Fluorobiphenyl	83.3	25 - 106
2-Fluorophenol	38.7	10 - 100
Nitrobenzene-d5	74.3	25 - 100
Phenol-d6	26.2	7 - 100
p-Terphenyl-d14	98.2	35 - 130

Analyzed by: Lyu
Reviewed by: mtran

Mercury: EPA 7470A for Water and Groundwater / EPA 245.1 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Mercury	ND		1.0	0.0002	mg/L	12/13/2007	WHG071213	12/13/2007	WHG071213

Analyzed by: RWipfler
Reviewed by: HDINH

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-013 **Sample ID: BM-7** **Matrix:** Liquid **Sample Date:** 12/10/2007 4:15 PM

Metals by ICP: EPA 3010A / EPA 6010B for Groundwater and Water - EPA 200.7 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Antimony	ND		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Arsenic	**0.031**		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Barium	**0.27**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Beryllium	ND		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Cadmium	ND		1.0	0.0020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Chromium	**0.27**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Cobalt	**0.042**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Copper	**0.11**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Lead	**0.083**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Molybdenum	**0.0050**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Nickel	**0.22**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Selenium	ND		1.0	0.020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Silver	ND		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Thallium	ND		1.0	0.020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Vanadium	**0.23**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Zinc	**0.26**		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212

Analyzed by: CTran
Reviewed by: HDINH

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	ND		1.0	50	µg/L	N/A	N/A	12/12/2007	WGC071211

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	104	65 - 135

Analyzed by: JAbidog
Reviewed by: MaiChiTu

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	**120**		0.98	49	µg/L	12/13/2007	WDA071213	12/13/2007	WDA071213
Atypical pattern (C12-C26).									

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	66.6	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-014 **Sample ID: BM-8** **Matrix:** Liquid **Sample Date:** 12/10/2007 3:50 PM

n-Hexane extractable material (HEM): EPA 1664

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease (HEM)	**430**		1.0	5.0	mg/L	N/A	N/A	12/12/2007	WOGHEM071211

Analyzed by: MFelix
Reviewed by: rlazaro

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-014 **Sample ID: BM-8** **Matrix:** Liquid **Sample Date:** 12/10/2007 3:50 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1,1-Trichloroethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1,2,2-Tetrachloroethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1,2-Trichloroethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1-Dichloroethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1-Dichloroethene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1-Dichloropropene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,3-Trichlorobenzene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,3-Trichloropropane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,4-Trichlorobenzene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,4-Trimethylbenzene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dibromo-3-Chloropropane	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dibromoethane (EDB)	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dichlorobenzene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dichloroethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dichloropropane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,3,5-Trimethylbenzene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,3-Dichlorobenzene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,3-Dichloropropane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,4-Dichlorobenzene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
2,2-Dichloropropane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
2-Chlorotoluene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
4-Chlorotoluene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
Benzene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromobenzene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromochloromethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromodichloromethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromoform	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromomethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Carbon Tetrachloride	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Chlorobenzene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Chloroethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Chloroform	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Chloromethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
cis-1,2-Dichloroethene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Dibromochloromethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Dibromomethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Dichlorodifluoromethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Ethyl Benzene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Hexachlorobutadiene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
Isopropylbenzene	ND		10	10	µg/L	N/A	N/A	12/12/2007	WM7071212
Methyl-t-butyl Ether	ND		10	10	µg/L	N/A	N/A	12/12/2007	WM7071212
Methylene Chloride	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
n-Butylbenzene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
n-Propylbenzene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212

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Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-014 **Sample ID: BM-8** **Matrix:** Liquid **Sample Date:** 12/10/2007 3:50 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Naphthalene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
p-Isopropyltoluene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
sec-Butylbenzene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
Styrene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
tert-Butylbenzene	ND		10	50	µg/L	N/A	N/A	12/12/2007	WM7071212
Tetrachloroethene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Toluene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
trans-1,2-Dichloroethene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Trichloroethene	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Trichlorofluoromethane	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Vinyl Chloride	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Xylenes, Total	ND		10	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212

The reporting limits were raised due to high concentration of heavy hydrocarbons.

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	115	60 - 130
Dibromofluoromethane	105	60 - 130
Toluene-d8	96.7	60 - 130

Analyzed by: Bela
Reviewed by: MaiChiTu

Mercury: EPA 7470A for Water and Groundwater / EPA 245.1 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Mercury	ND		1.0	0.0002	mg/L	12/13/2007	WHG071213	12/13/2007	WHG071213

Analyzed by: RWipfler
Reviewed by: HDINH

Metals by ICP: EPA 3010A / EPA 6010B for Groundwater and Water - EPA 200.7 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Antimony	ND		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Arsenic	**0.011**		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Barium	**0.094**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Beryllium	ND		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Cadmium	ND		1.0	0.0020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Chromium	**0.11**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Cobalt	**0.015**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Copper	**0.045**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Lead	**0.030**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Molybdenum	ND		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Nickel	**0.075**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Selenium	ND		1.0	0.020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Silver	ND		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Thallium	ND		1.0	0.020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Vanadium	**0.090**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Zinc	**0.087**		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212

Analyzed by: CTran
Reviewed by: HDINH

Detection Limit = Detection Limit for Reporting.
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Qual = Data Qualifier

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-014 **Sample ID: BM-8** **Matrix:** Liquid **Sample Date:** 12/10/2007 3:50 PM

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	**54000**		200	10000	µg/L	N/A	N/A	12/12/2007	WGC071211
Atypical pattern.									

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	236 ***	65 - 135

Analyzed by: JAbidog
Reviewed by: MaiChiTu

*** Surrogate % recovery was outside QC limits due to matrix interference.

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	**61000**		96	4800	µg/L	12/13/2007	WDA071213	12/13/2007	WDA071213

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	84.7	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-014A **Sample ID: BM-8 Floating Product** **Matrix:** Liquid **Sample Date:** 12/10/2007 3:50 PM

58598-014A - The letter following the laboratory number indicates an additional aliquot of the sample or a second analytical run where both runs are being reported.

SVOCs: EPA 3535A / EPA 3510C / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,2,4-Trichlorobenzene	ND		1.0	2500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,2-Dichlorobenzene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,2-Dinitrobenzene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,3-Dichlorobenzene	ND		1.0	2500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,3-Dinitrobenzene	ND		1.0	1500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,4-Dichlorobenzene	ND		1.0	2500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1,4-Dinitrobenzene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
1-Methylnaphthalene	ND		1.0	2500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,3,4,6-Tetrachlorophenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,3,5,6-Tetrachlorophenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4,5-Trichlorophenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4,6-Trichlorophenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dichlorophenol	ND		1.0	2500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dimethylphenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dinitrophenol	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,4-Dinitrotoluene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2,6-Dinitrotoluene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Chloronaphthalene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Chlorophenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Methylnaphthalene	ND		1.0	2500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Methylphenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Nitroaniline	ND		1.0	1500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
2-Nitrophenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
3&4-Methylphenol	ND		1.0	1500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
3,3'-Dichlorobenzidine	ND		1.0	1500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
3-Nitroaniline	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4,6-Dinitro-2-methylphenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Bromophenyl Phenyl Ether	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Chloro-3-methylphenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Chloroaniline	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Chlorophenyl-phenylether	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Nitroaniline	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
4-Nitrophenol	ND		1.0	1500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Acenaphthene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Acenaphthylene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Aniline	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Anthracene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Azobenzene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(a)anthracene	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(a)pyrene	ND		1.0	3000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(b)fluoranthene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(g,h,i)perylene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzo(k)fluoranthene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Benzoic Acid	ND		1.0	1500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212

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Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-014A **Sample ID: BM-8 Floating Product** **Matrix:** Liquid **Sample Date:** 12/10/2007 3:50 PM

58598-014A - The letter following the laboratory number indicates an additional aliquot of the sample or a second analytical run where both runs are being reported.

SVOCs: EPA 3535A / EPA 3510C / EPA 8270C

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Benzyl Alcohol	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis-(2-Chloroethoxy)methane	ND		1.0	2500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis-(2-Chloroethyl)ether	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis(2-Chloroisopropyl)ether	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis(2-Ethylhexyl)adipate	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
bis(2-Ethylhexyl)phthalate	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Butylbenzylphthalate	ND		1.0	2500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Carbazole	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Chrysene	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Di-n-butylphthalate	ND		1.0	2500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Di-n-octylphthalate	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Dibenzo(a,h)anthracene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Dibenzofuran	ND		1.0	1500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Diethylphthalate	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Dimethylphthalate	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Diphenylamine	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Fluoranthene	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Fluorene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachlorobenzene	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachlorobutadiene	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachlorocyclopentadiene	ND		1.0	2500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Hexachloroethane	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Indeno(1,2,3-cd)pyrene	ND		1.0	1500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Isophorone	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
N-Nitroso-di-n-propylamine	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Naphthalene	ND		1.0	2500	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Nitrobenzene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Pentachlorophenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Phenanthrene	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Phenol	ND		1.0	1000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212
Pyrene	ND		1.0	2000	mg/L	12/12/2007	SVW071212	12/12/2007	SVW071212

See Case Narrative on the cover of this report.

Surrogate	Surrogate Recovery	Control Limits (%)
2,4,6-Tribromophenol	57.0	25 - 115
2-Fluorobiphenyl	86.2	25 - 106
2-Fluorophenol	52.7	10 - 100
Nitrobenzene-d5	77.0	25 - 100
Phenol-d6	47.8	7 - 100
p-Terphenyl-d14	107	35 - 130

Analyzed by: LYu
Reviewed by: mtran

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-015 **Sample ID: BM-9** **Matrix:** Liquid **Sample Date:** 12/10/2007 4:30 PM

n-Hexane extractable material (HEM): EPA 1664

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease (HEM)	ND		1.0	5.0	mg/L	N/A	N/A	12/12/2007	WOGHEM071211

Analyzed by: MFelix
Reviewed by: rlazaro

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Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-015 **Sample ID: BM-9** **Matrix:** Liquid **Sample Date:** 12/10/2007 4:30 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,3-Trichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Methylene Chloride	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212

Detection Limit = Detection Limit for Reporting.
ND = Not Detected at or above the Detection Limit.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
Qual = Data Qualifier

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Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-015 **Sample ID: BM-9** **Matrix:** Liquid **Sample Date:** 12/10/2007 4:30 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/12/2007	WM7071212
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	12/12/2007	WM7071212

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	109	60 - 130
Dibromofluoromethane	104	60 - 130
Toluene-d8	98.4	60 - 130

Analyzed by: Bela
Reviewed by: MaiChiTu

Mercury: EPA 7470A for Water and Groundwater / EPA 245.1 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Mercury	ND		1.0	0.0002	mg/L	12/13/2007	WHG071213	12/13/2007	WHG071213

Analyzed by: RWipfler
Reviewed by: HDINH

Metals by ICP: EPA 3010A / EPA 6010B for Groundwater and Water - EPA 200.7 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Antimony	**0.011**		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Arsenic	**0.072**		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Barium	**2.4**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Beryllium	ND		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Cadmium	**0.0070**		1.0	0.0020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Chromium	**0.61**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Cobalt	**0.17**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Copper	**0.64**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Lead	**0.86**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Molybdenum	**0.022**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Nickel	**0.50**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Selenium	ND		1.0	0.020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Silver	ND		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Thallium	ND		1.0	0.020	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Vanadium	**0.58**		1.0	0.0050	mg/L	12/12/2007	WM071212	12/13/2007	WM071212
Zinc	**1.5**		1.0	0.010	mg/L	12/12/2007	WM071212	12/13/2007	WM071212

Analyzed by: CTran
Reviewed by: HDINH

Detection Limit = Detection Limit for Reporting.
ND = Not Detected at or above the Detection Limit.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
Qual = Data Qualifier

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Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/11/2007
Sample Collected by: Client

Lab # : 58598-015 **Sample ID: BM-9** **Matrix:** Liquid **Sample Date:** 12/10/2007 4:30 PM

TPH-Purgeable - GC : EPA 5030B / EPA 8015B

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Gasoline	**180**		1.0	50	µg/L	N/A	N/A	12/12/2007	WGC071211
Atypical pattern.									

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	383 ***	65 - 135

Analyzed by: JAbidog
Reviewed by: MaiChiTu

*** Surrogate % recovery was outside QC limits due to matrix interference.

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	**1200**		1.1	55	µg/L	12/13/2007	WDA071213	12/13/2007	WDA071213
Not a typical pattern (C9-C40).									

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	77.8	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Method Blank - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGC071212 Validated by: MaiChiTu - 12/13/07

QC Batch Analysis Date: 12/12/2007

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	0.50	mg/Kg

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	**106**	65 - 135

LCS / LCSD - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGC071212 Reviewed by: MaiChiTu - 12/13/07

QC Batch ID Analysis Date: 12/12/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<0.50	2.5	2.41	mg/Kg	96.4	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**125.0**	65 - 135

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<0.50	2.5	2.53	mg/Kg	101	4.9	30.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**126.0**	65 - 135

MS / MSD - Solid - TPH-Purgeable - GC: EPA 5030B (or 5035A for Encore Samples only) / EPA 8015B

QC Batch ID: SGC071212 Reviewed by: MaiChiTu - 12/13/07

QC Batch ID Analysis Date: 12/12/2007

MS Sample Spiked: 58598-002

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits	
TPH as Gasoline	ND	2.5	4.56	mg/Kg	12/12/2007	182	65 - 135	***

***%RPD for MS/MSD were outside the QC limits. The batch was accepted by the LCS/LCSD recoveries.

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**127.0**	65 - 135

MSD Sample Spiked: 58598-002

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits	
TPH as Gasoline	ND	2.5	2.52	mg/Kg	12/12/2007	101	58	30.0	65 - 135	***

***%RPD for MS/MSD were outside the QC limits. The batch was accepted by the LCS/LCSD recoveries.

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**119.0**	65 - 135

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Method Blank - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC071211

Validated by: MaiChiTu - 12/12/07

QC Batch Analysis Date: 12/11/2007

Parameter	Result	DF	PQLR	Units
TPH as Gasoline	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	**106**	65 - 135

LCS / LCSD - Liquid - TPH-Purgeable - GC : EPA 5030B / EPA 8015B

QC Batch ID: WGC071211

Reviewed by: MaiChiTu - 12/12/07

QC Batch ID Analysis Date: 12/11/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Gasoline	<50	120	122	µg/L	97.6	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**128.0**	65 - 135

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Gasoline	<50	120	117	µg/L	93.6	4.2	25.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**129.0**	65 - 135

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Method Blank - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC Batch ID: SM3071212 Validated by: MaiChiTu - 12/12/07

QC Batch Analysis Date: 12/12/2007

Parameter	Result	DF	PQLR	Units
1,1,1,2-Tetrachloroethane	ND	1	5.0	µg/Kg
1,1,1-Trichloroethane	ND	1	5.0	µg/Kg
1,1,2,2-Tetrachloroethane	ND	1	5.0	µg/Kg
1,1,2-Trichloroethane	ND	1	5.0	µg/Kg
1,1-Dichloroethane	ND	1	5.0	µg/Kg
1,1-Dichloroethene	ND	1	5.0	µg/Kg
1,1-Dichloropropene	ND	1	5.0	µg/Kg
1,2,3-Trichlorobenzene	ND	1	5.0	µg/Kg
1,2,3-Trichloropropane	ND	1	5.0	µg/Kg
1,2,4-Trichlorobenzene	ND	1	5.0	µg/Kg
1,2,4-Trimethylbenzene	ND	1	5.0	µg/Kg
1,2-Dibromo-3-Chloropropane	ND	1	5.0	µg/Kg
1,2-Dibromoethane (EDB)	ND	1	5.0	µg/Kg
1,2-Dichlorobenzene	ND	1	5.0	µg/Kg
1,2-Dichloroethane	ND	1	5.0	µg/Kg
1,2-Dichloropropane	ND	1	5.0	µg/Kg
1,3,5-Trimethylbenzene	ND	1	5.0	µg/Kg
1,3-Dichlorobenzene	ND	1	5.0	µg/Kg
1,3-Dichloropropane	ND	1	5.0	µg/Kg
1,4-Dichlorobenzene	ND	1	5.0	µg/Kg
1,4-Dioxane	ND	1	200	µg/Kg
2,2-Dichloropropane	ND	1	5.0	µg/Kg
2-Butanone (MEK)	ND	1	40	µg/Kg
2-Chloroethyl-vinyl Ether	ND	1	5.0	µg/Kg
2-Chlorotoluene	ND	1	5.0	µg/Kg
2-Hexanone	ND	1	40	µg/Kg
4-Chlorotoluene	ND	1	5.0	µg/Kg
4-Methyl-2-Pentanone(MIBK)	ND	1	40	µg/Kg
Acetone	ND	1	100	µg/Kg
Acetonitrile	ND	1	40	µg/Kg
Acrolein	ND	1	5.0	µg/Kg
Acrylonitrile	ND	1	5.0	µg/Kg
Benzene	ND	1	5.0	µg/Kg
Benzyl Chloride	ND	1	5.0	µg/Kg
Bromobenzene	ND	1	5.0	µg/Kg
Bromochloromethane	ND	1	5.0	µg/Kg
Bromodichloromethane	ND	1	5.0	µg/Kg
Bromoform	ND	1	5.0	µg/Kg
Bromomethane	ND	1	5.0	µg/Kg
Carbon Disulfide	ND	1	5.0	µg/Kg
Carbon Tetrachloride	ND	1	5.0	µg/Kg
Chlorobenzene	ND	1	5.0	µg/Kg
Chloroethane	ND	1	5.0	µg/Kg
Chloroform	ND	1	5.0	µg/Kg
Chloromethane	ND	1	5.0	µg/Kg
cis-1,2-Dichloroethene	ND	1	5.0	µg/Kg
cis-1,3-Dichloropropene	ND	1	5.0	µg/Kg
Cyclohexanone	ND	1	40	µg/Kg
Dibromochloromethane	ND	1	5.0	µg/Kg
Dibromomethane	ND	1	5.0	µg/Kg
Dichlorodifluoromethane	ND	1	5.0	µg/Kg

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Method Blank - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC Batch ID: SM3071212 Validated by: MaiChiTu - 12/12/07

QC Batch Analysis Date: 12/12/2007

Parameter	Result	DF	PQLR	Units
Diisopropyl Ether	ND	1	5.0	µg/Kg
Ethyl Benzene	ND	1	5.0	µg/Kg
Freon 113	ND	1	10	µg/Kg
Hexachlorobutadiene	ND	1	5.0	µg/Kg
Iodomethane	ND	1	10	µg/Kg
Isopropanol	ND	1	100	µg/Kg
Isopropylbenzene	ND	1	5.0	µg/Kg
Methylene Chloride	ND	1	50	µg/Kg
Methyl-t-butyl Ether	ND	1	5.0	µg/Kg
Naphthalene	ND	1	5.0	µg/Kg
n-Butylbenzene	ND	1	5.0	µg/Kg
n-Propylbenzene	ND	1	5.0	µg/Kg
Pentachloroethane	ND	1	5.0	µg/Kg
p-Isopropyltoluene	ND	1	5.0	µg/Kg
sec-Butylbenzene	ND	1	5.0	µg/Kg
Styrene	ND	1	5.0	µg/Kg
tert-Amyl Methyl Ether	ND	1	5.0	µg/Kg
tert-Butanol (TBA)	ND	1	40	µg/Kg
tert-Butyl Ethyl Ether	ND	1	5.0	µg/Kg
tert-Butylbenzene	ND	1	5.0	µg/Kg
Tetrachloroethene	ND	1	5.0	µg/Kg
Tetrahydrofuran	ND	1	40	µg/Kg
Toluene	ND	1	5.0	µg/Kg
trans-1,2-Dichloroethene	ND	1	5.0	µg/Kg
trans-1,3-Dichloropropene	ND	1	5.0	µg/Kg
trans-1,4-Dichloro-2-butene	ND	1	10	µg/Kg
Trichloroethene	ND	1	5.0	µg/Kg
Trichlorofluoromethane	ND	1	5.0	µg/Kg
Vinyl Acetate	ND	1	5.0	µg/Kg
Vinyl Chloride	ND	1	5.0	µg/Kg
Xylenes, Total	ND	1	10	µg/Kg

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	**101**	60 - 130
Dibromofluoromethane	**112**	60 - 130
Toluene-d8	**101**	60 - 130

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LCS / LCSD - Solid - VOCs: EPA 5030B (or 5035A for Encore Samples only)/EPA 8260B

QC Batch ID: SM3071212 Reviewed by: MaiChiTu - 12/12/07

QC Batch ID Analysis Date: 12/12/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<5.0	40	37.4	µg/Kg	93.5	65 - 135
Benzene	<5.0	40	35.1	µg/Kg	87.8	65 - 135
Chlorobenzene	<5.0	40	39.4	µg/Kg	98.5	65 - 135
Methyl-t-butyl Ether	<5.0	40	38.9	µg/Kg	97.2	65 - 135
Toluene	<5.0	40	34.9	µg/Kg	87.2	65 - 135
Trichloroethene	<5.0	40	33.5	µg/Kg	83.8	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**103.0**	60 - 130
Dibromofluoromethane	**116.0**	60 - 130
Toluene-d8	**97.6**	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<5.0	40	41.9	µg/Kg	105	11	30.0	65 - 135
Benzene	<5.0	40	37.1	µg/Kg	92.8	5.5	30.0	65 - 135
Chlorobenzene	<5.0	40	40.5	µg/Kg	101	2.8	30.0	65 - 135
Methyl-t-butyl Ether	<5.0	40	37.0	µg/Kg	92.5	5.0	30.0	65 - 135
Toluene	<5.0	40	36.5	µg/Kg	91.2	4.5	30.0	65 - 135
Trichloroethene	<5.0	40	35.2	µg/Kg	88.0	4.9	30.0	65 - 135

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**103.0**	60 - 130
Dibromofluoromethane	**114.0**	60 - 130
Toluene-d8	**96.8**	60 - 130

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Method Blank - Solid - SVOCs: EPA 3545A / EPA 8270C

QC/Prep Batch ID: SVS071211

Validated by: mtran - 12/14/07

QC/Prep Date: 12/11/2007

Parameter	Result	DF	PQLR	Units
1,2,4-Trichlorobenzene	ND	1	0.50	mg/Kg
1,2-Dichlorobenzene	ND	1	0.50	mg/Kg
1,2-Dinitrobenzene	ND	1	0.50	mg/Kg
1,3-Dichlorobenzene	ND	1	0.50	mg/Kg
1,3-Dinitrobenzene	ND	1	0.50	mg/Kg
1,4-Dichlorobenzene	ND	1	0.50	mg/Kg
1,4-Dinitrobenzene	ND	1	0.50	mg/Kg
1-Methyl-2-pyrrolidinone (NMP)	ND	1	0.50	mg/Kg
1-Methylnaphthalene	ND	1	0.50	mg/Kg
2,3,4,6-Tetrachlorophenol	ND	1	0.50	mg/Kg
2,3,5,6-Tetrachlorophenol	ND	1	0.50	mg/Kg
2,4,5-Trichlorophenol	ND	1	0.50	mg/Kg
2,4,6-Trichlorophenol	ND	1	0.50	mg/Kg
2,4-Dichlorophenol	ND	1	0.50	mg/Kg
2,4-Dimethylphenol	ND	1	0.50	mg/Kg
2,4-Dinitrophenol	ND	1	2.5	mg/Kg
2,4-Dinitrotoluene	ND	1	0.50	mg/Kg
2,6-Dinitrotoluene	ND	1	1.0	mg/Kg
2-Chloronaphthalene	ND	1	0.50	mg/Kg
2-Chlorophenol	ND	1	1.0	mg/Kg
2-Methylnaphthalene	ND	1	0.50	mg/Kg
2-Methylphenol	ND	1	0.50	mg/Kg
2-Nitroaniline	ND	1	0.50	mg/Kg
2-Nitrophenol	ND	1	0.50	mg/Kg
3&4-Methylphenol	ND	1	0.50	mg/Kg
3,3'-Dichlorobenzidine	ND	1	2.5	mg/Kg
3-Nitroaniline	ND	1	0.50	mg/Kg
4,6-Dinitro-2-methylphenol	ND	1	2.0	mg/Kg
4-Bromophenyl Phenyl Ether	ND	1	0.50	mg/Kg
4-Chloro-3-methylphenol	ND	1	0.50	mg/Kg
4-Chloroaniline	ND	1	0.50	mg/Kg
4-Chlorophenyl-phenylether	ND	1	0.50	mg/Kg
4-Nitroaniline	ND	1	0.50	mg/Kg
4-Nitrophenol	ND	1	2.0	mg/Kg
Acenaphthene	ND	1	1.0	mg/Kg
Acenaphthylene	ND	1	0.50	mg/Kg
Aniline	ND	1	0.50	mg/Kg
Anthracene	ND	1	0.50	mg/Kg
Azobenzene	ND	1	0.50	mg/Kg
Benzo(a)anthracene	ND	1	0.50	mg/Kg
Benzo(a)pyrene	ND	1	0.50	mg/Kg
Benzo(b)fluoranthene	ND	1	0.50	mg/Kg
Benzo(g,h,i)perylene	ND	1	0.50	mg/Kg
Benzo(k)fluoranthene	ND	1	0.50	mg/Kg
Benzoic Acid	ND	1	1.0	mg/Kg
Benzyl Alcohol	ND	1	1.0	mg/Kg
bis-(2-Chloroethoxy)methane	ND	1	0.50	mg/Kg
bis-(2-Chloroethyl)ether	ND	1	0.50	mg/Kg
bis(2-Chloroisopropyl)ether	ND	1	0.50	mg/Kg
bis(2-Ethylhexyl)adipate	ND	1	0.50	mg/Kg
bis(2-Ethylhexyl)phthalate	ND	1	0.50	mg/Kg

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Method Blank - Solid - SVOCs: EPA 3545A / EPA 8270C

QC/Prep Batch ID: SVS071211

Validated by: mtran - 12/14/07

QC/Prep Date: 12/11/2007

Parameter	Result	DF	PQLR	Units
Butylbenzylphthalate	ND	1	0.50	mg/Kg
Carbazole	ND	1	0.50	mg/Kg
Chrysene	ND	1	0.50	mg/Kg
Dibenzo(a,h)anthracene	ND	1	0.50	mg/Kg
Dibenzofuran	ND	1	0.50	mg/Kg
Diethylphthalate	ND	1	0.50	mg/Kg
Dimethylphthalate	ND	1	0.50	mg/Kg
Di-n-butylphthalate	ND	1	0.50	mg/Kg
Di-n-octylphthalate	ND	1	0.50	mg/Kg
Diphenylamine	ND	1	0.50	mg/Kg
Fluoranthene	ND	1	0.50	mg/Kg
Fluorene	ND	1	0.50	mg/Kg
Hexachlorobenzene	ND	1	0.50	mg/Kg
Hexachlorobutadiene	ND	1	0.50	mg/Kg
Hexachlorocyclopentadiene	ND	1	0.50	mg/Kg
Hexachloroethane	ND	1	0.50	mg/Kg
Indeno(1,2,3-cd)pyrene	ND	1	0.50	mg/Kg
Isophorone	ND	1	0.50	mg/Kg
Naphthalene	ND	1	0.50	mg/Kg
Nitrobenzene	ND	1	0.50	mg/Kg
N-Nitrosodimethylamine	ND	1	5.0	mg/Kg
N-Nitroso-di-n-propylamine	ND	1	1.0	mg/Kg
Pentachlorophenol	ND	1	0.50	mg/Kg
Phenanthrene	ND	1	0.50	mg/Kg
Phenol	ND	1	2.0	mg/Kg
Pyrene	ND	1	1.0	mg/Kg
Pyridine	ND	1	2.0	mg/Kg

Surrogate for Blank	% Recovery	Control Limits
2,4,6-Tribromophenol	**52.2**	30 - 100
2-Fluorobiphenyl	**51.3**	20 - 106
2-Fluorophenol	**45.3**	20 - 100
Nitrobenzene-d5	**50.1**	20 - 100
Phenol-d6	**48.9**	20 - 100
p-Terphenyl-d14	**92.2**	55 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Solid - SVOCs: EPA 3545A / EPA 8270C

QC Batch ID: SVS071211

Reviewed by: mtran - 12/14/07

QC/Prep Date: 12/11/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,2,4-Trichlorobenzene	<0.50	1.2	0.500	mg/Kg	40.0	11 - 92.0
1,4-Dichlorobenzene	<0.50	1.2	0.560	mg/Kg	44.8	11 - 87.0
2,4-Dinitrotoluene	<0.50	1.2	0.710	mg/Kg	56.8	8.0 - 86.0
2-Chlorophenol	<1.0	1.9	0.930	mg/Kg	49.5	13 - 97.0
4-Chloro-3-methylphenol	<0.50	1.9	0.860	mg/Kg	45.7	7.0 - 94.0
4-Nitrophenol	<2.0	1.9	1.05	mg/Kg	55.9	9.0 - 80.0
Acenaphthene	<1.0	1.2	0.730	mg/Kg	58.4	18 - 93.0
N-Nitroso-di-n-propylamine	<1.0	1.2	0.590	mg/Kg	47.2	4.0 - 107
Pentachlorophenol	<0.50	1.9	1.35	mg/Kg	71.8	13 - 122
Phenol	<2.0	1.9	0.820	mg/Kg	43.6	15 - 87.0
Pyrene	<1.0	1.2	1.07	mg/Kg	85.6	38 - 122

Surrogate	% Recovery	Control Limits
2,4,6-Tribromophenol	**60.6**	30 - 100
2-Fluorobiphenyl	**54.2**	20 - 106
2-Fluorophenol	**47.2**	20 - 100
Nitrobenzene-d5	**53.1**	20 - 100
Phenol-d6	**47.9**	20 - 100
p-Terphenyl-d14	**89.2**	55 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,2,4-Trichlorobenzene	<0.50	1.2	0.520	mg/Kg	41.6	3.9	44.0	11 - 92.0
1,4-Dichlorobenzene	<0.50	1.2	0.530	mg/Kg	42.4	5.5	30.0	11 - 87.0
2,4-Dinitrotoluene	<0.50	1.2	0.700	mg/Kg	56.0	1.4	38.0	8.0 - 86.0
2-Chlorophenol	<1.0	1.9	0.830	mg/Kg	44.1	11	31.0	13 - 97.0
4-Chloro-3-methylphenol	<0.50	1.9	0.860	mg/Kg	45.7	0.0	38.0	7.0 - 94.0
4-Nitrophenol	<2.0	1.9	1.01	mg/Kg	53.7	3.9	56.0	9.0 - 80.0
Acenaphthene	<1.0	1.2	0.680	mg/Kg	54.4	7.1	31.0	18 - 93.0
N-Nitroso-di-n-propylamine	<1.0	1.2	0.580	mg/Kg	46.4	1.7	43.0	4.0 - 107
Pentachlorophenol	<0.50	1.9	1.30	mg/Kg	69.1	3.8	39.0	13 - 122
Phenol	<2.0	1.9	0.730	mg/Kg	38.8	12	38.0	15 - 87.0
Pyrene	<1.0	1.2	1.14	mg/Kg	91.2	6.3	32.0	38 - 122

Surrogate	% Recovery	Control Limits
2,4,6-Tribromophenol	**65.1**	30 - 100
2-Fluorobiphenyl	**51.8**	20 - 106
2-Fluorophenol	**44.9**	20 - 100
Nitrobenzene-d5	**51.9**	20 - 100
Phenol-d6	**41.9**	20 - 100
p-Terphenyl-d14	**104.0**	55 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

MS / MSD - Solid - SVOCs: EPA 3545A / EPA 8270C

QC/Prep Batch ID: SVS071211

Reviewed by: mtran - 12/14/07

QC/Prep Date: 12/11/2007

MS Sample Spiked: 58598-011

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits
1,2,4-Trichlorobenzene	ND	1.2	0.660	mg/Kg	12/12/2007	52.8	16 - 120
1,4-Dichlorobenzene	ND	1.2	0.570	mg/Kg	12/12/2007	45.6	20 - 120
2,4-Dinitrotoluene	ND	1.2	0.560	mg/Kg	12/12/2007	44.8	24 - 140
2-Chlorophenol	ND	1.9	0.960	mg/Kg	12/12/2007	51.1	23 - 134
4-Chloro-3-methylphenol	ND	1.9	0.820	mg/Kg	12/12/2007	43.6	22 - 140
4-Nitrophenol	ND	1.9	0.750	mg/Kg	12/12/2007	39.9	5.0 - 130
Acenaphthene	ND	1.2	0.650	mg/Kg	12/12/2007	52.0	20 - 140
N-Nitroso-di-n-propylamine	ND	1.2	0.550	mg/Kg	12/12/2007	44.0	10 - 130
Pentachlorophenol	ND	1.9	0.820	mg/Kg	12/12/2007	43.6	15 - 140
Phenol	ND	1.9	0.840	mg/Kg	12/12/2007	44.7	5.0 - 110
Pyrene	ND	1.2	1.03	mg/Kg	12/12/2007	82.4	35 - 140

Surrogate	% Recovery	Control Limits
2,4,6-Tribromophenol	**51.1**	30 - 100
2-Fluorobiphenyl	**51.3**	20 - 106
2-Fluorophenol	**53.1**	20 - 100
Nitrobenzene-d5	**57.3**	20 - 100
Phenol-d6	**54.0**	20 - 100
p-Terphenyl-d14	**104.0**	55 - 130

MSD Sample Spiked: 58598-011

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits
1,2,4-Trichlorobenzene	ND	1.2	0.470	mg/Kg	12/12/2007	37.6	34	44.0	16 - 120
1,4-Dichlorobenzene	ND	1.2	0.460	mg/Kg	12/12/2007	36.8	21	30.0	20 - 120
2,4-Dinitrotoluene	ND	1.2	0.510	mg/Kg	12/12/2007	40.8	9.3	38.0	24 - 140
2-Chlorophenol	ND	1.9	0.780	mg/Kg	12/12/2007	41.5	21	31.0	23 - 134
4-Chloro-3-methylphenol	ND	1.9	0.740	mg/Kg	12/12/2007	39.4	10	38.0	22 - 140
4-Nitrophenol	ND	1.9	0.800	mg/Kg	12/12/2007	42.6	6.5	56.0	5.0 - 130
Acenaphthene	ND	1.2	0.570	mg/Kg	12/12/2007	45.6	13	31.0	20 - 140
N-Nitroso-di-n-propylamine	ND	1.2	0.510	mg/Kg	12/12/2007	40.8	7.5	43.0	10 - 130
Pentachlorophenol	ND	1.9	1.10	mg/Kg	12/12/2007	58.5	29	39.0	15 - 140
Phenol	ND	1.9	0.680	mg/Kg	12/12/2007	36.2	21	38.0	5.0 - 110
Pyrene	ND	1.2	1.23	mg/Kg	12/12/2007	98.4	18	32.0	35 - 140

Surrogate	% Recovery	Control Limits
2,4,6-Tribromophenol	**55.9**	30 - 100
2-Fluorobiphenyl	**43.8**	20 - 106
2-Fluorophenol	**41.2**	20 - 100
Nitrobenzene-d5	**48.0**	20 - 100
Phenol-d6	**39.9**	20 - 100
p-Terphenyl-d14	**102.0**	55 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - SVOCs: EPA 3535A / EPA 3510C / EPA 8270C

QC/Prep Batch ID: SVW071212

Validated by: mtran - 12/14/07

QC/Prep Date: 12/12/2007

Parameter	Result	DF	PQLR	Units
1,2,4-Trichlorobenzene	ND	1	25	µg/L
1,2-Dichlorobenzene	ND	1	10	µg/L
1,2-Dinitrobenzene	ND	1	10	µg/L
1,3-Dichlorobenzene	ND	1	25	µg/L
1,3-Dinitrobenzene	ND	1	15	µg/L
1,4-Dichlorobenzene	ND	1	2500	mg/L
1,4-Dinitrobenzene	ND	1	1000	mg/L
1-Methylnaphthalene	ND	1	25	µg/L
2,3,4,6-Tetrachlorophenol	ND	1	10	µg/L
2,3,5,6-Tetrachlorophenol	ND	1	1000	mg/L
2,4,5-Trichlorophenol	ND	1	10	µg/L
2,4,6-Trichlorophenol	ND	1	1000	mg/L
2,4-Dichlorophenol	ND	1	2500	mg/L
2,4-Dimethylphenol	ND	1	10	µg/L
2,4-Dinitrophenol	ND	1	20	µg/L
2,4-Dinitrotoluene	ND	1	10	µg/L
2,6-Dinitrotoluene	ND	1	1000	mg/L
2-Chloronaphthalene	ND	1	10	µg/L
2-Chlorophenol	ND	1	10	µg/L
2-Methylnaphthalene	ND	1	25	µg/L
2-Methylphenol	ND	1	10	µg/L
2-Nitroaniline	ND	1	1500	mg/L
2-Nitrophenol	ND	1	1000	mg/L
3&4-Methylphenol	ND	1	15	µg/L
3,3'-Dichlorobenzidine	ND	1	15	µg/L
3-Nitroaniline	ND	1	10	µg/L
4,6-Dinitro-2-methylphenol	ND	1	1000	mg/L
4-Bromophenyl Phenyl Ether	ND	1	20	µg/L
4-Chloro-3-methylphenol	ND	1	10	µg/L
4-Chloroaniline	ND	1	20	µg/L
4-Chlorophenyl-phenylether	ND	1	10	µg/L
4-Nitroaniline	ND	1	20	µg/L
4-Nitrophenol	ND	1	15	µg/L
Acenaphthene	ND	1	10	µg/L
Acenaphthylene	ND	1	10	µg/L
Aniline	ND	1	20	µg/L
Anthracene	ND	1	10	µg/L
Azobenzene	ND	1	10	µg/L
Benzo(a)anthracene	ND	1	2000	mg/L
Benzo(a)pyrene	ND	1	30	µg/L
Benzo(b)fluoranthene	ND	1	10	µg/L
Benzo(g,h,i)perylene	ND	1	10	µg/L
Benzo(k)fluoranthene	ND	1	10	µg/L
Benzoic Acid	ND	1	1500	mg/L
Benzyl Alcohol	ND	1	20	µg/L
bis-(2-Chloroethoxy)methane	ND	1	25	µg/L
bis-(2-Chloroethyl)ether	ND	1	10	µg/L
bis(2-Chloroisopropyl)ether	ND	1	1000	mg/L
bis(2-Ethylhexyl)adipate	ND	1	1000	mg/L
bis(2-Ethylhexyl)phthalate	ND	1	10	µg/L
Butylbenzylphthalate	ND	1	25	µg/L

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - SVOCs: EPA 3535A / EPA 3510C / EPA 8270C

QC/Prep Batch ID: SVW071212

Validated by: mtran - 12/14/07

QC/Prep Date: 12/12/2007

Parameter	Result	DF	PQLR	Units
Carbazole	ND	1	10	µg/L
Chrysene	ND	1	2000	mg/L
Dibenzo(a,h)anthracene	ND	1	1000	mg/L
Dibenzofuran	ND	1	15	µg/L
Diethylphthalate	ND	1	10	µg/L
Dimethylphthalate	ND	1	10	µg/L
Di-n-butylphthalate	ND	1	25	µg/L
Di-n-octylphthalate	ND	1	10	µg/L
Diphenylamine	ND	1	1000	mg/L
Fluoranthene	ND	1	20	µg/L
Fluorene	ND	1	10	µg/L
Hexachlorobenzene	ND	1	20	µg/L
Hexachlorobutadiene	ND	1	20	µg/L
Hexachlorocyclopentadiene	ND	1	25	µg/L
Hexachloroethane	ND	1	10	µg/L
Indeno(1,2,3-cd)pyrene	ND	1	15	µg/L
Isophorone	ND	1	10	µg/L
Naphthalene	ND	1	25	µg/L
Nitrobenzene	ND	1	1000	mg/L
N-Nitroso-di-n-propylamine	ND	1	10	µg/L
Pentachlorophenol	ND	1	10	µg/L
Phenanthrene	ND	1	10	µg/L
Phenol	ND	1	1000	mg/L
Pyrene	ND	1	2000	mg/L

Surrogate for Blank	% Recovery	Control Limits
2,4,6-Tribromophenol	**32.5**	25 - 115
2-Fluorobiphenyl	**39.8**	25 - 106
2-Fluorophenol	**42.2**	10 - 100
Nitrobenzene-d5	**47.5**	25 - 100
Phenol-d6	**39.2**	7 - 100
p-Terphenyl-d14	**55.9**	35 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - SVOCs: EPA 3535A / EPA 3510C / EPA 8270C

QC Batch ID: SVW071212

Reviewed by: mtran - 12/14/07

QC/Prep Date: 12/12/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,2,4-Trichlorobenzene	<25	50	18.9	µg/L	37.8	15 - 130
1,4-Dichlorobenzene	<25	50	19.9	µg/L	39.8	24 - 130
2,4-Dinitrotoluene	<10	50	23.0	µg/L	46.0	26 - 130
2-Chlorophenol	<10	75	30.0	µg/L	40.0	23 - 130
4-Chloro-3-methylphenol	<10	75	29.8	µg/L	39.7	17 - 130
4-Nitrophenol	<15	75	38.6	µg/L	51.5	13 - 130
Acenaphthene	<10	50	19.5	µg/L	39.0	25 - 130
N-Nitroso-di-n-propylamine	<10	50	21.1	µg/L	42.2	16 - 130
Pentachlorophenol	<10	75	35.5	µg/L	47.3	24 - 130
Phenol	<10	75	25.0	µg/L	33.3	5.0 - 130
Pyrene	<20	50	32.5	µg/L	65.0	35 - 130

Surrogate	% Recovery	Control Limits
2,4,6-Tribromophenol	**31.6**	25 - 115
2-Fluorobiphenyl	**39.7**	25 - 106
2-Fluorophenol	**39.2**	10 - 100
Nitrobenzene-d5	**48.7**	25 - 100
Phenol-d6	**38.4**	7 - 100
p-Terphenyl-d14	**53.0**	35 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,2,4-Trichlorobenzene	<25	50	15.3	ug/L	30.6	21	29.0	15 - 130
1,4-Dichlorobenzene	<25	50	17.7	µg/L	35.4	12	38.0	24 - 130
2,4-Dinitrotoluene	<10	50	21.8	µg/L	43.6	5.4	37.0	26 - 130
2-Chlorophenol	<10	75	29.4	µg/L	39.2	2.0	35.0	23 - 130
4-Chloro-3-methylphenol	<10	75	24.3	µg/L	32.4	20	36.0	17 - 130
4-Nitrophenol	<15	75	38.8	µg/L	51.7	0.52	34.0	13 - 130
Acenaphthene	<10	50	16.5	µg/L	33.0	17	32.0	25 - 130
N-Nitroso-di-n-propylamine	<10	50	19.3	µg/L	38.6	8.9	38.0	16 - 130
Pentachlorophenol	<10	75	34.9	µg/L	46.5	1.7	36.0	24 - 130
Phenol	<10	75	25.7	µg/L	34.3	2.8	47.0	5.0 - 130
Pyrene	<20	50	31.7	µg/L	63.4	2.5	29.0	35 - 130

Surrogate	% Recovery	Control Limits
2,4,6-Tribromophenol	**29.2**	25 - 115
2-Fluorobiphenyl	**32.1**	25 - 106
2-Fluorophenol	**35.2**	10 - 100
Nitrobenzene-d5	**40.0**	25 - 100
Phenol-d6	**34.4**	7 - 100
p-Terphenyl-d14	**50.7**	35 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM7071212

Validated by: MaiChiTu - 12/13/07

QC Batch Analysis Date: 12/12/2007

Parameter	Result	DF	PQLR	Units
1,1,1,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,1-Trichloroethane	ND	1	0.50	µg/L
1,1,2,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,2-Trichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethene	ND	1	0.50	µg/L
1,1-Dichloropropene	ND	1	0.50	µg/L
1,2,3-Trichlorobenzene	ND	1	5.0	µg/L
1,2,3-Trichloropropane	ND	1	0.50	µg/L
1,2,4-Trichlorobenzene	ND	1	5.0	µg/L
1,2,4-Trimethylbenzene	ND	1	5.0	µg/L
1,2-Dibromo-3-Chloropropane	ND	1	5.0	µg/L
1,2-Dibromoethane (EDB)	ND	1	0.50	µg/L
1,2-Dichlorobenzene	ND	1	0.50	µg/L
1,2-Dichloroethane	ND	1	0.50	µg/L
1,2-Dichloropropane	ND	1	0.50	µg/L
1,3,5-Trimethylbenzene	ND	1	5.0	µg/L
1,3-Dichlorobenzene	ND	1	0.50	µg/L
1,3-Dichloropropane	ND	1	0.50	µg/L
1,4-Dichlorobenzene	ND	1	0.50	µg/L
2,2-Dichloropropane	ND	1	0.50	µg/L
2-Chlorotoluene	ND	1	5.0	µg/L
4-Chlorotoluene	ND	1	5.0	µg/L
Benzene	ND	1	0.50	µg/L
Bromobenzene	ND	1	0.50	µg/L
Bromochloromethane	ND	1	0.50	µg/L
Bromodichloromethane	ND	1	0.50	µg/L
Bromoform	ND	1	0.50	µg/L
Bromomethane	ND	1	0.50	µg/L
Carbon Tetrachloride	ND	1	0.50	µg/L
Chlorobenzene	ND	1	0.50	µg/L
Chloroethane	ND	1	0.50	µg/L
Chloroform	ND	1	0.50	µg/L
Chloromethane	ND	1	0.50	µg/L
cis-1,2-Dichloroethene	ND	1	0.50	µg/L
Dibromochloromethane	ND	1	0.50	µg/L
Dibromomethane	ND	1	0.50	µg/L
Dichlorodifluoromethane	ND	1	0.50	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Hexachlorobutadiene	ND	1	5.0	µg/L
Isopropylbenzene	ND	1	1.0	µg/L
Methylene Chloride	ND	1	5.0	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
Naphthalene	ND	1	5.0	µg/L
n-Butylbenzene	ND	1	5.0	µg/L
n-Propylbenzene	ND	1	5.0	µg/L
p-Isopropyltoluene	ND	1	5.0	µg/L
sec-Butylbenzene	ND	1	5.0	µg/L
Styrene	ND	1	0.50	µg/L
tert-Butylbenzene	ND	1	5.0	µg/L

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM7071212

Validated by: MaiChiTu - 12/13/07

QC Batch Analysis Date: 12/12/2007

Parameter	Result	DF	PQLR	Units
Tetrachloroethene	ND	1	0.50	µg/L
Toluene	ND	1	0.50	µg/L
trans-1,2-Dichloroethene	ND	1	0.50	µg/L
Trichloroethene	ND	1	0.50	µg/L
Trichlorofluoromethane	ND	1	0.50	µg/L
Vinyl Chloride	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	**108**	60 - 130
Dibromofluoromethane	**107**	60 - 130
Toluene-d8	**98.5**	60 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM7071212 Reviewed by: MaiChiTu - 12/13/07

QC Batch ID Analysis Date: 12/12/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	20.1	µg/L	101	70 - 130
Benzene	<0.50	20	18.1	µg/L	90.4	70 - 130
Chlorobenzene	<0.50	20	16.3	µg/L	81.5	70 - 130
Methyl-t-butyl Ether	<1.0	20	20.8	µg/L	104	70 - 130
Toluene	<0.50	20	16.9	µg/L	84.6	70 - 130
Trichloroethene	<0.50	20	17.1	µg/L	85.5	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**111.0**	60 - 130
Dibromofluoromethane	**111.0**	60 - 130
Toluene-d8	**99.9**	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	21.6	µg/L	108	7.1	25.0	70 - 130
Benzene	<0.50	20	19.8	µg/L	98.8	8.8	25.0	70 - 130
Chlorobenzene	<0.50	20	17.7	µg/L	88.4	8.1	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	22.1	µg/L	110	6.1	25.0	70 - 130
Toluene	<0.50	20	18.3	µg/L	91.6	8.0	25.0	70 - 130
Trichloroethene	<0.50	20	19.0	µg/L	94.8	10	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**106.0**	60 - 130
Dibromofluoromethane	**108.0**	60 - 130
Toluene-d8	**96.8**	60 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Solid - TPH-Extractable: EPA 3545A / EPA 8015B(M)

QC/Prep Batch ID: SDA071211

Validated by: mtran - 12/12/07

QC/Prep Date: 12/11/2007

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	5.0	mg/Kg

Surrogate for Blank	% Recovery	Control Limits
n-Hexacosane	**87.0**	50 - 150

LCS / LCSD - Solid - TPH-Extractable: EPA 3545A / EPA 8015B(M)

QC Batch ID: SDA071211

Reviewed by: mtran - 12/12/07

QC/Prep Date: 12/11/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<5.0	100	78.5	mg/Kg	78.5	45 - 140
TPH as Motor Oil	<20	100	71.4	mg/Kg	71.4	45 - 140

Surrogate	% Recovery	Control Limits
n-Hexacosane	**75.5**	50 - 150

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<5.0	100	76.2	mg/Kg	76.2	2.9	30.0	45 - 140
TPH as Motor Oil	<20	100	71.5	mg/Kg	71.5	0.15	30.0	45 - 140

Surrogate	% Recovery	Control Limits
n-Hexacosane	**74.8**	50 - 150

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B(M)

QC/Prep Batch ID: WDA071213

Validated by: mtran - 12/14/07

QC/Prep Date: 12/13/2007

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
n-Hexacosane	**84.5**	50 - 150

LCS / LCSD - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B(M)

QC Batch ID: WDA071213

Reviewed by: mtran - 12/14/07

QC/Prep Date: 12/13/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	735	µg/L	73.5	45 - 140
TPH as Motor Oil	<200	1000	719	µg/L	71.9	45 - 140

Surrogate	% Recovery	Control Limits
n-Hexacosane	**82.0**	50 - 150

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	751	µg/L	75.1	2.2	25.0	45 - 140
TPH as Motor Oil	<200	1000	733	µg/L	73.3	1.9	25.0	45 - 140

Surrogate	% Recovery	Control Limits
n-Hexacosane	**83.9**	50 - 150

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Solid - Mercury: EPA 7471B

QC Batch ID: SHG071212

Reviewed by: HDINH - 12/12/07

QC/Prep Date: 12/12/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Mercury	<0.050	0.20	0.193	mg/Kg	96.6	75 - 125

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Mercury	<0.050	0.20	0.190	mg/Kg	94.8	1.8	30.0	75 - 125

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Solid - Metals by ICP: EPA 3050B / EPA 6010B

QC Batch ID: SM071211

Reviewed by: HDINH - 12/12/07

QC/Prep Date: 12/11/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Antimony	<1.0	50	46.2	mg/Kg	92.5	70 - 130
Arsenic	<1.0	50	46.6	mg/Kg	93.1	70 - 130
Barium	<1.0	50	50.6	mg/Kg	101	70 - 130
Beryllium	<1.0	50	47.1	mg/Kg	94.3	70 - 130
Cadmium	<1.0	50	47.9	mg/Kg	95.8	70 - 130
Chromium	<1.0	50	50.2	mg/Kg	100	70 - 130
Cobalt	<1.0	50	49.8	mg/Kg	99.6	70 - 130
Copper	<1.0	50	49.9	mg/Kg	99.8	70 - 130
Lead	<1.0	50	49.3	mg/Kg	98.6	70 - 130
Molybdenum	<1.0	50	49.8	mg/Kg	99.7	70 - 130
Nickel	<1.0	50	49.8	mg/Kg	99.6	70 - 130
Selenium	<2.0	50	43.6	mg/Kg	87.3	70 - 130
Silver	<1.0	50	48.6	mg/Kg	97.2	70 - 130
Thallium	<2.0	50	46.1	mg/Kg	92.2	70 - 130
Vanadium	<1.0	50	50.4	mg/Kg	101	70 - 130
Zinc	<2.0	50	47.8	mg/Kg	95.5	70 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Antimony	<1.0	50	46.7	mg/Kg	93.3	0.91	30.0	70 - 130
Arsenic	<1.0	50	46.5	mg/Kg	93.0	0.13	30.0	70 - 130
Barium	<1.0	50	49.8	mg/Kg	99.6	1.5	30.0	70 - 130
Beryllium	<1.0	50	47.9	mg/Kg	95.8	1.7	30.0	70 - 130
Cadmium	<1.0	50	47.1	mg/Kg	94.3	1.6	30.0	70 - 130
Chromium	<1.0	50	49.5	mg/Kg	99.1	1.4	30.0	70 - 130
Cobalt	<1.0	50	49.1	mg/Kg	98.3	1.3	30.0	70 - 130
Copper	<1.0	50	49.2	mg/Kg	98.4	1.5	30.0	70 - 130
Lead	<1.0	50	49.6	mg/Kg	99.1	0.51	30.0	70 - 130
Molybdenum	<1.0	50	49.8	mg/Kg	99.5	0.15	30.0	70 - 130
Nickel	<1.0	50	49.2	mg/Kg	98.4	1.3	30.0	70 - 130
Selenium	<2.0	50	43.3	mg/Kg	86.6	0.79	30.0	70 - 130
Silver	<1.0	50	47.6	mg/Kg	95.3	2.0	30.0	70 - 130
Thallium	<2.0	50	47.3	mg/Kg	94.5	2.5	30.0	70 - 130
Vanadium	<1.0	50	49.6	mg/Kg	99.1	1.7	30.0	70 - 130
Zinc	<2.0	50	47.1	mg/Kg	94.1	1.5	30.0	70 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

MS / MSD - Solid - Metals by ICP: EPA 3050B / EPA 6010B

QC/Prep Batch ID: SM071211

Reviewed by: HDINH - 12/12/07

QC/Prep Date: 12/11/2007

MS Sample Spiked: 58598-003

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits	
Antimony	ND	50	11.9	mg/Kg	12/11/2007	23.9	70 - 130	***
Arsenic	5.07	50	47.6	mg/Kg	12/11/2007	85.1	70 - 130	
Barium	21.1	50	70.0	mg/Kg	12/11/2007	97.7	70 - 130	
Beryllium	ND	50	42.9	mg/Kg	12/11/2007	85.7	70 - 130	
Cadmium	1.39	50	44.3	mg/Kg	12/11/2007	85.8	70 - 130	
Chromium	44.4	50	89.2	mg/Kg	12/11/2007	89.7	70 - 130	
Cobalt	14.2	50	58.8	mg/Kg	12/11/2007	89.3	70 - 130	
Copper	19.0	50	67.4	mg/Kg	12/11/2007	96.8	70 - 130	
Lead	6.02	50	48.5	mg/Kg	12/11/2007	84.9	70 - 130	
Molybdenum	ND	50	41.3	mg/Kg	12/11/2007	82.6	70 - 130	
Nickel	64.9	50	110	mg/Kg	12/11/2007	91.2	70 - 130	
Selenium	ND	50	37.6	mg/Kg	12/11/2007	75.2	70 - 130	
Silver	ND	50	43.9	mg/Kg	12/11/2007	87.8	70 - 130	
Thallium	ND	50	37.2	mg/Kg	12/11/2007	74.4	70 - 130	
Vanadium	35.8	50	82.1	mg/Kg	12/11/2007	92.5	70 - 130	
Zinc	50.7	50	103	mg/Kg	12/11/2007	105	70 - 130	

MSD Sample Spiked: 58598-003

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	RPD	RPD Limits	Recovery Limits	
Antimony	ND	50	12.0	mg/Kg	12/11/2007	23.9	0.31	30.0	70 - 130	***
Arsenic	5.07	50	47.8	mg/Kg	12/11/2007	85.4	0.36	30.0	70 - 130	
Barium	21.1	50	69.7	mg/Kg	12/11/2007	97.3	0.33	30.0	70 - 130	
Beryllium	ND	50	44.0	mg/Kg	12/11/2007	88.0	2.6	30.0	70 - 130	
Cadmium	1.39	50	45.4	mg/Kg	12/11/2007	88.1	2.5	30.0	70 - 130	
Chromium	44.4	50	91.4	mg/Kg	12/11/2007	94.0	2.4	30.0	70 - 130	
Cobalt	14.2	50	58.4	mg/Kg	12/11/2007	88.5	0.63	30.0	70 - 130	
Copper	19.0	50	69.5	mg/Kg	12/11/2007	101	3.0	30.0	70 - 130	
Lead	6.02	50	49.3	mg/Kg	12/11/2007	86.6	1.7	30.0	70 - 130	
Molybdenum	ND	50	41.9	mg/Kg	12/11/2007	83.7	1.4	30.0	70 - 130	
Nickel	64.9	50	110	mg/Kg	12/11/2007	90.9	0.15	30.0	70 - 130	
Selenium	ND	50	38.1	mg/Kg	12/11/2007	76.2	1.3	30.0	70 - 130	
Silver	ND	50	44.9	mg/Kg	12/11/2007	89.9	2.4	30.0	70 - 130	
Thallium	ND	50	38.1	mg/Kg	12/11/2007	76.2	2.4	30.0	70 - 130	
Vanadium	35.8	50	83.9	mg/Kg	12/11/2007	96.2	2.2	30.0	70 - 130	
Zinc	50.7	50	98.7	mg/Kg	12/11/2007	96.0	4.5	30.0	70 - 130	

***All MS/MSD recoveries that do not fall within the control limits are out due to the nature of the sample matrix. The batch was accepted by the LCS/LCSD recoveries.

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - Mercury: EPA 7470A for Water and Groundwater / EPA 245.1 for Wastewater

QC Batch ID: WHG071213 Reviewed by: rlazaro - 12/13/07

QC/Prep Date: 12/13/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Mercury	<0.0002	0.0020	0.00173	mg/L	86.6	85 - 115

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Mercury	<0.0002	0.0020	0.00210	mg/L	105	19	25.0	85 - 115

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - Metals by ICP: EPA 3010A / EPA 6010B for Groundwater and Water - EPA 200.7 for Wastewater

QC Batch ID: WM071212

Reviewed by: HDINH - 12/12/07

QC/Prep Date: 12/12/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Antimony	<0.010	0.50	0.505	mg/L	101	85 - 115
Arsenic	<0.010	0.50	0.478	mg/L	95.6	85 - 115
Barium	<0.0050	0.50	0.518	mg/L	104	85 - 115
Beryllium	<0.0050	0.50	0.480	mg/L	95.9	85 - 115
Cadmium	<0.0020	0.50	0.493	mg/L	98.7	85 - 115
Chromium	<0.0050	0.50	0.516	mg/L	103	85 - 115
Cobalt	<0.0050	0.50	0.510	mg/L	102	85 - 115
Copper	<0.0050	0.50	0.509	mg/L	102	85 - 115
Lead	<0.0050	0.50	0.500	mg/L	100	85 - 115
Molybdenum	<0.0050	0.50	0.504	mg/L	101	85 - 115
Nickel	<0.0050	0.50	0.516	mg/L	103	85 - 115
Selenium	<0.020	0.50	0.457	mg/L	91.4	85 - 115
Silver	<0.0050	0.50	0.499	mg/L	99.8	85 - 115
Thallium	<0.020	0.50	0.470	mg/L	94.0	85 - 115
Vanadium	<0.0050	0.50	0.513	mg/L	103	85 - 115
Zinc	<0.010	0.50	0.495	mg/L	99.1	85 - 115

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Antimony	<0.010	0.50	0.513	mg/L	103	1.6	25.0	85 - 115
Arsenic	<0.010	0.50	0.484	mg/L	96.8	1.2	25.0	85 - 115
Barium	<0.0050	0.50	0.520	mg/L	104	0.48	25.0	85 - 115
Beryllium	<0.0050	0.50	0.486	mg/L	97.2	1.3	25.0	85 - 115
Cadmium	<0.0020	0.50	0.491	mg/L	98.2	0.43	25.0	85 - 115
Chromium	<0.0050	0.50	0.515	mg/L	103	0.31	25.0	85 - 115
Cobalt	<0.0050	0.50	0.509	mg/L	102	0.20	25.0	85 - 115
Copper	<0.0050	0.50	0.507	mg/L	101	0.37	25.0	85 - 115
Lead	<0.0050	0.50	0.512	mg/L	102	2.3	25.0	85 - 115
Molybdenum	<0.0050	0.50	0.513	mg/L	103	1.8	25.0	85 - 115
Nickel	<0.0050	0.50	0.512	mg/L	102	0.84	25.0	85 - 115
Selenium	<0.020	0.50	0.458	mg/L	91.6	0.26	25.0	85 - 115
Silver	<0.0050	0.50	0.499	mg/L	99.8	0.020	25.0	85 - 115
Thallium	<0.020	0.50	0.480	mg/L	96.0	2.1	25.0	85 - 115
Vanadium	<0.0050	0.50	0.512	mg/L	102	0.059	25.0	85 - 115
Zinc	<0.010	0.50	0.492	mg/L	98.3	0.79	25.0	85 - 115

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - n-Hexane extractable material (HEM): EPA 1664

QC Batch ID: WOGHEM071211

Reviewed by: rlazaro - 12/13/07

QC Batch ID Analysis Date: 12/12/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Oil and Grease (HEM)	<5.0	20	17.1	mg/L	85.5	78 - 114

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Oil and Grease (HEM)	<5.0	20	16.9	mg/L	84.5	1.2	18.0	78 - 114

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

MS / MSD - Liquid - n-Hexane extractable material (HEM): EPA 1664

QC Batch ID: WOGHEM071211

Reviewed by: rlazaro - 12/13/07

QC Batch ID Analysis Date: 12/12/2007

MS Sample Spiked: 58598-005

Parameter	Sample Result	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits	
Oil and Grease (HEM)	ND	20	3.50	mg/L	12/12/2007	17.5	78 - 114	***

***All MS/MSD recoveries do not fall within the control limits are out due to the nature of the sample matrix. The batch was accepted by the LCS/LCSD recoveries.

Burns & McDonnell SINCE 1898

Request for Chemical Analysis and Chain of Custody Record

3 DAYS

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Phone: (650) 871-2926 Fax: (650) 871-2653
Attention: Patrick Bratton

Laboratory: EArech
Address:
City/State/Zip:
Telephone:

Document Control No: 121007
Lab. Reference No. or Episode No.:

Project Number: 47561 58598
Client Name: YRCW - OAKLAND

Sample Number			Sample Event		Sample Depth (in feet)		Sample Collected		Sample Type: Matrix			Number of Containers	Analysis: TPH Gasoline	TPH Diesel	TPH Oil & Grease	VOCs	SVOCs ★ Soil only	CAM 17 Metals	Remarks
Group or SWMU Name	Sample Point	Sample Designator	Round	Year	From	To	Date	Time	Liquid	Solid	Gas								
	BM-2-5'			2007	3	6	12-10	1008		X		1	*	*	*				3 Day TAT 001
	BM-2-13'			2007	13	15		1000		X		1	X	X	X				002
	BM-1-8'				7	8		1030		X		1					X	X	003
	BM-1							1235	X			3					X	X	004
	BM-2							1130	X			7	X	X	X				005
	BM-5							1445	X			2	X						006
	BM-4							1205	X			4	X	X	X				007
	BM-3							1405	X			1	X						008
	BM-7-6'				6	6.5		1430		X		1	X	X	X	X	X	X	009
	BM-8-7'				7	7.5		1415		X		1	X	X	X	X	X	X	010
	BM-9-5'				5	5.5		1355		X		1	X	X	X	X	X	X	011
	BM-6							1535	X			2	X						012
	BM-7							1615	X			8	X	X	X	X	X	X	013
	BM-8 ★							1550	X			9	X	X	X	X	X	X	Sheen on Sample 014
	BM-9							1630	X			8	X	X	X	X		X	015

Sampler (signature):

Sampler (signature):

0825

Special Instructions:
OK to run soil oil & grease via
★ Extractable Diesel/mo per P Bratton

Relinquished By (signature):	Date/Time	Received By (signature):	Date/Time
1.	12/11/07 0830		12/11/07 0830
Relinquished By (signature):	Date/Time	Received By (signature):	Date/Time
2.	12/11/07 1017		12/11/07 1013

Ice Present in Container: Yes ☐ No ☐

Temperature Upon Receipt:

Laboratory Comments:
*Floating product analyzed for 8270
12/12/07 9:11

011702 Form WCD-KC1-SDO

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Patrick Bratton
Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080

Lab Certificate Number: 58754
Issued: 12/21/2007

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Final Report

On December 18, 2007, samples were received under chain of custody for analysis.
Entech analyzes samples "as received" unless otherwise noted. The following results are included:

Matrix	Test / Comments
Liquid	n-Hexane extractable material (HEM): EPA 1664
	VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater
	TPH-Extractable: EPA 3510C / EPA 8015B(M)

Entech Analytical Labs, Inc. is certified for environmental analyses by the State of California (#2346).
Subcontracted work is the responsibility of the subcontract laboratory, this includes turn-around-time and data quality.
If you have any questions regarding this report, please call us at 408-588-0200 ext. 225.

Sincerely,

C. L. Thom
Laboratory Director

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 **Phone: (408) 588-0200** **Fax: (408) 588-0201**

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-001 **Sample ID: MW-2** **Matrix:** Liquid **Sample Date:** 12/17/2007 2:30 PM

n-Hexane extractable material (HEM): EPA 1664

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease (HEM)	ND		1.0	5.0	mg/L	N/A	N/A	12/20/2007	WOGHEM071219

Analyzed by: Mfelix
Reviewed by: rlazaro

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-001 **Sample ID: MW-2** **Matrix:** Liquid **Sample Date:** 12/17/2007 2:30 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,3-Trichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Methylene Chloride	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220

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ND = Not Detected at or above the Detection Limit.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
Qual = Data Qualifier

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-001 **Sample ID: MW-2** **Matrix:** Liquid **Sample Date:** 12/17/2007 2:30 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	89.6	60 - 130
Dibromofluoromethane	86.9	60 - 130
Toluene-d8	91.7	60 - 130

Analyzed by: TAF
Reviewed by: xbian

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	**140**		1.0	50	µg/L	12/20/2007	WDA071220	12/20/2007	WDA071220
Atypical pattern (C10-C36).									

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	93.3	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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3334 Victor Court , Santa Clara, CA 95054 **Phone: (408) 588-0200** **Fax: (408) 588-0201**

Burns & McDonnell Engineering
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Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-002 **Sample ID: MW-3** **Matrix:** Liquid **Sample Date:** 12/17/2007 3:10 PM

n-Hexane extractable material (HEM): EPA 1664

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease (HEM)	ND		1.0	5.0	mg/L	N/A	N/A	12/20/2007	WOGHEM071219

Analyzed by: Mfelix
Reviewed by: rlazaro

Detection Limit = Detection Limit for Reporting.
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Project Number: 47561
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Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-002 **Sample ID: MW-3** **Matrix:** Liquid **Sample Date:** 12/17/2007 3:10 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,3-Trichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Methylene Chloride	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220

Detection Limit = Detection Limit for Reporting.
ND = Not Detected at or above the Detection Limit.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
Qual = Data Qualifier

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Burns & McDonnell Engineering
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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-002 **Sample ID: MW-3** **Matrix:** Liquid **Sample Date:** 12/17/2007 3:10 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	89.8	60 - 130
Dibromofluoromethane	87.6	60 - 130
Toluene-d8	91.4	60 - 130

Analyzed by: TAF
Reviewed by: xbian

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	50	µg/L	12/20/2007	WDA071220	12/20/2007	WDA071220

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	98.3	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

Detection Limit = Detection Limit for Reporting.
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ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-003 **Sample ID: MW-4** **Matrix:** Liquid **Sample Date:** 12/17/2007 4:10 PM

n-Hexane extractable material (HEM): EPA 1664

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease (HEM)	ND		1.0	5.0	mg/L	N/A	N/A	12/20/2007	WOGHEM071219

Analyzed by: Mfelix
Reviewed by: rlazaro

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-003 **Sample ID: MW-4** **Matrix:** Liquid **Sample Date:** 12/17/2007 4:10 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,3-Trichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Methylene Chloride	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220

Detection Limit = Detection Limit for Reporting. ND = Not Detected at or above the Detection Limit.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments. Qual = Data Qualifier

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Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-003 **Sample ID: MW-4** **Matrix:** Liquid **Sample Date:** 12/17/2007 4:10 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	89.9	60 - 130
Dibromofluoromethane	86.1	60 - 130
Toluene-d8	91.4	60 - 130

Analyzed by: TAF
Reviewed by: xbian

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	50	µg/L	12/20/2007	WDA071220	12/20/2007	WDA071220

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	98.2	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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3334 Victor Court , Santa Clara, CA 95054 **Phone: (408) 588-0200** **Fax: (408) 588-0201**

Burns & McDonnell Engineering
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So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-004 **Sample ID: MW-5** **Matrix:** Liquid **Sample Date:** 12/17/2007 4:45 PM

n-Hexane extractable material (HEM): EPA 1664

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease (HEM)	ND		1.0	5.0	mg/L	N/A	N/A	12/20/2007	WOGHEM071219

Analyzed by: Mfelix
Reviewed by: rlazaro

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Project Number: 47561
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Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-004 **Sample ID: MW-5** **Matrix:** Liquid **Sample Date:** 12/17/2007 4:45 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,3-Trichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Methylene Chloride	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220

Detection Limit = Detection Limit for Reporting.
ND = Not Detected at or above the Detection Limit.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
Qual = Data Qualifier

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Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-004 **Sample ID: MW-5** **Matrix:** Liquid **Sample Date:** 12/17/2007 4:45 PM

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	92.6	60 - 130
Dibromofluoromethane	94.0	60 - 130
Toluene-d8	94.3	60 - 130

Analyzed by: TAF
Reviewed by: xbian

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	50	µg/L	12/20/2007	WDA071220	12/20/2007	WDA071220

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	98.1	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-005 **Sample ID: DUP-1** **Matrix:** Liquid **Sample Date:** 12/17/2007

n-Hexane extractable material (HEM): EPA 1664

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Oil and Grease (HEM)	ND		1.0	5.0	mg/L	N/A	N/A	12/20/2007	WOGHEM071219

Analyzed by: Mfelix
Reviewed by: rlazaro

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-005 **Sample ID: DUP-1** **Matrix:** Liquid **Sample Date:** 12/17/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
1,1,1,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,1-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,2,2-Tetrachloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1,2-Trichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,1-Dichloropropene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,3-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,3-Trichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,4-Trichlorobenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2,4-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dibromo-3-Chloropropane	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dibromoethane (EDB)	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3,5-Trimethylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,3-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
1,4-Dichlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
2,2-Dichloropropane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
2-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
4-Chlorotoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromodichloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromoform	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Bromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Carbon Tetrachloride	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chlorobenzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloroethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloroform	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Chloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
cis-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dibromochloromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dibromomethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Dichlorodifluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Ethyl Benzene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Hexachlorobutadiene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Isopropylbenzene	ND		1.0	1.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Methyl-t-butyl Ether	ND		1.0	1.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Methylene Chloride	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
n-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
n-Propylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220

Detection Limit = Detection Limit for Reporting. ND = Not Detected at or above the Detection Limit.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments. Qual = Data Qualifier

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Attn: Patrick Bratton

Project Number: 47561
Project Name: YRCW-Oakland

Certificate of Analysis - Data Report

Samples Received: 12/18/2007
Sample Collected by: Client

Lab # : 58754-005 **Sample ID: DUP-1** **Matrix:** Liquid **Sample Date:** 12/17/2007

VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
Naphthalene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
p-Isopropyltoluene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
sec-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Styrene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
tert-Butylbenzene	ND		1.0	5.0	µg/L	N/A	N/A	12/20/2007	WM2071220
Tetrachloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Toluene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
trans-1,2-Dichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Trichloroethene	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Trichlorofluoromethane	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Vinyl Chloride	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220
Xylenes, Total	ND		1.0	0.50	µg/L	N/A	N/A	12/20/2007	WM2071220

Surrogate	Surrogate Recovery	Control Limits (%)
4-Bromofluorobenzene	90.7	60 - 130
Dibromofluoromethane	90.5	60 - 130
Toluene-d8	92.9	60 - 130

Analyzed by: TAF
Reviewed by: xbian

TPH-Extractable: EPA 3510C / EPA 8015B(M)

Parameter	Result	Qual	D/P-F	Detection Limit	Units	Prep Date	Prep Batch	Analysis Date	QC Batch
TPH as Diesel	ND		1.0	50	µg/L	12/20/2007	WDA071220	12/20/2007	WDA071220

Surrogate	Surrogate Recovery	Control Limits (%)
n-Hexacosane	98.9	50 - 150

Analyzed by: JHsiang
Reviewed by: mtran

Detection Limit = Detection Limit for Reporting.
D/P-F = Dilution and/or Prep Factor includes sample volume adjustments.
ND = Not Detected at or above the Detection Limit.
Qual = Data Qualifier

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Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM2071220

Validated by: xbian - 12/21/07

QC Batch Analysis Date: 12/20/2007

Parameter	Result	DF	PQLR	Units
1,1,1,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,1-Trichloroethane	ND	1	0.50	µg/L
1,1,2,2-Tetrachloroethane	ND	1	0.50	µg/L
1,1,2-Trichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethane	ND	1	0.50	µg/L
1,1-Dichloroethene	ND	1	0.50	µg/L
1,1-Dichloropropene	ND	1	0.50	µg/L
1,2,3-Trichlorobenzene	ND	1	5.0	µg/L
1,2,3-Trichloropropane	ND	1	0.50	µg/L
1,2,4-Trichlorobenzene	ND	1	5.0	µg/L
1,2,4-Trimethylbenzene	ND	1	5.0	µg/L
1,2-Dibromo-3-Chloropropane	ND	1	5.0	µg/L
1,2-Dibromoethane (EDB)	ND	1	0.50	µg/L
1,2-Dichlorobenzene	ND	1	0.50	µg/L
1,2-Dichloroethane	ND	1	0.50	µg/L
1,2-Dichloropropane	ND	1	0.50	µg/L
1,3,5-Trimethylbenzene	ND	1	5.0	µg/L
1,3-Dichlorobenzene	ND	1	0.50	µg/L
1,3-Dichloropropane	ND	1	0.50	µg/L
1,4-Dichlorobenzene	ND	1	0.50	µg/L
2,2-Dichloropropane	ND	1	0.50	µg/L
2-Chlorotoluene	ND	1	5.0	µg/L
4-Chlorotoluene	ND	1	5.0	µg/L
Benzene	ND	1	0.50	µg/L
Bromobenzene	ND	1	0.50	µg/L
Bromochloromethane	ND	1	0.50	µg/L
Bromodichloromethane	ND	1	0.50	µg/L
Bromoform	ND	1	0.50	µg/L
Bromomethane	ND	1	0.50	µg/L
Carbon Tetrachloride	ND	1	0.50	µg/L
Chlorobenzene	ND	1	0.50	µg/L
Chloroethane	ND	1	0.50	µg/L
Chloroform	ND	1	0.50	µg/L
Chloromethane	ND	1	0.50	µg/L
cis-1,2-Dichloroethene	ND	1	0.50	µg/L
Dibromochloromethane	ND	1	0.50	µg/L
Dibromomethane	ND	1	0.50	µg/L
Dichlorodifluoromethane	ND	1	0.50	µg/L
Ethyl Benzene	ND	1	0.50	µg/L
Hexachlorobutadiene	ND	1	5.0	µg/L
Isopropylbenzene	ND	1	1.0	µg/L
Methylene Chloride	ND	1	5.0	µg/L
Methyl-t-butyl Ether	ND	1	1.0	µg/L
Naphthalene	ND	1	5.0	µg/L
n-Butylbenzene	ND	1	5.0	µg/L
n-Propylbenzene	ND	1	5.0	µg/L
p-Isopropyltoluene	ND	1	5.0	µg/L
sec-Butylbenzene	ND	1	5.0	µg/L
Styrene	ND	1	0.50	µg/L
tert-Butylbenzene	ND	1	5.0	µg/L

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Method Blank - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM2071220

Validated by: xbian - 12/21/07

QC Batch Analysis Date: 12/20/2007

Parameter	Result	DF	PQLR	Units
Tetrachloroethene	ND	1	0.50	µg/L
Toluene	ND	1	0.50	µg/L
trans-1,2-Dichloroethene	ND	1	0.50	µg/L
Trichloroethene	ND	1	0.50	µg/L
Trichlorofluoromethane	ND	1	0.50	µg/L
Vinyl Chloride	ND	1	0.50	µg/L
Xylenes, Total	ND	1	0.50	µg/L

Surrogate for Blank	% Recovery	Control Limits
4-Bromofluorobenzene	**87.7**	60 - 130
Dibromofluoromethane	**83.5**	60 - 130
Toluene-d8	**90.5**	60 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - VOCs: EPA 5030B / EPA 8260B for Groundwater and Water - EPA 624 for Wastewater

QC Batch ID: WM2071220

Reviewed by: xbian - 12/21/07

QC Batch ID Analysis Date: 12/20/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
1,1-Dichloroethene	<0.50	20	19.6	µg/L	98.0	70 - 130
Benzene	<0.50	20	21.2	µg/L	106	70 - 130
Chlorobenzene	<0.50	20	23.4	µg/L	117	70 - 130
Methyl-t-butyl Ether	<1.0	20	23.1	µg/L	116	70 - 130
Toluene	<0.50	20	20.6	µg/L	103	70 - 130
Trichloroethene	<0.50	20	21.9	µg/L	110	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**94.3**	60 - 130
Dibromofluoromethane	**88.7**	60 - 130
Toluene-d8	**92.3**	60 - 130

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
1,1-Dichloroethene	<0.50	20	17.2	µg/L	86.0	13	25.0	70 - 130
Benzene	<0.50	20	19.0	µg/L	95.0	11	25.0	70 - 130
Chlorobenzene	<0.50	20	21.5	µg/L	108	8.5	25.0	70 - 130
Methyl-t-butyl Ether	<1.0	20	18.6	µg/L	93.0	22	25.0	70 - 130
Toluene	<0.50	20	18.8	µg/L	94.0	9.1	25.0	70 - 130
Trichloroethene	<0.50	20	19.6	µg/L	98.0	11	25.0	70 - 130

Surrogate	% Recovery	Control Limits
4-Bromofluorobenzene	**89.1**	60 - 130
Dibromofluoromethane	**83.5**	60 - 130
Toluene-d8	**90.6**	60 - 130

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

Method Blank - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B(M)

QC/Prep Batch ID: WDA071220

Validated by: mtran - 12/21/07

QC/Prep Date: 12/20/2007

Parameter	Result	DF	PQLR	Units
TPH as Diesel	ND	1	50	µg/L

Surrogate for Blank	% Recovery	Control Limits
n-Hexacosane	**93.4**	50 - 150

LCS / LCSD - Liquid - TPH-Extractable: EPA 3510C / EPA 8015B(M)

QC Batch ID: WDA071220

Reviewed by: mtran - 12/21/07

QC/Prep Date: 12/20/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
TPH as Diesel	<50	1000	846	µg/L	84.6	45 - 140
TPH as Motor Oil	<200	1000	783	µg/L	78.3	45 - 140

Surrogate	% Recovery	Control Limits
n-Hexacosane	**94.3**	50 - 150

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
TPH as Diesel	<50	1000	901	µg/L	90.1	6.2	25.0	45 - 140
TPH as Motor Oil	<200	1000	821	µg/L	82.1	4.8	25.0	45 - 140

Surrogate	% Recovery	Control Limits
n-Hexacosane	**98.0**	50 - 150

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

LCS / LCSD - Liquid - n-Hexane extractable material (HEM): EPA 1664

QC Batch ID: WOGHEM071219

Reviewed by: rlazaro - 12/20/07

QC Batch ID Analysis Date: 12/20/2007

LCS

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	Recovery Limits
Oil and Grease (HEM)	<5.0	20	17.2	mg/L	86.0	78 - 114

LCSD

Parameter	Method Blank	Spike Amt	SpikeResult	Units	% Recovery	RPD	RPD Limits	Recovery Limits
Oil and Grease (HEM)	<5.0	20	16.9	mg/L	84.5	1.8	18.0	78 - 114

Entech Analytical Labs, Inc.

3334 Victor Court , Santa Clara, CA 95054 Phone: (408) 588-0200 Fax: (408) 588-0201

MS / MSD - Liquid - n-Hexane extractable material (HEM): EPA 1664

QC Batch ID: WOGHEM071219

Reviewed by: rlazaro - 12/20/07

QC Batch ID Analysis Date: 12/20/2007

MS Sample Spiked: 58754-002

Parameter	Sample Result	DF	Spike Amount	Spike Result	Units	Analysis Date	% Recovery	Recovery Limits	
Oil and Grease (HEM)	ND	1	20	5.10	mg/L	12/20/2007	25.5	78 - 114	***

***All MS/MSD recoveries do not fall within the control limits are out due to the nature of the sample matrix. The batch was accepted by the LCS/LCSD recoveries.

Request for Chemical Analysis and Chain of Custody Record

Burns & McDonnell
SINCE 1898

Burns & McDonnell Engineering
393 E. Grand Avenue, Suite J
So. San Francisco, CA 94080
Phone: (650) 871-2926 Fax: (650) 871-2653
Attention: Patrick Bratton

Laboratory: Entech
Address:
City/State/Zip:
Telephone: 58754

Document Control No: 121707
Lab. Reference No. or Episode No.:

Project Number: 47561
Client Name: YRCW - OAKLAND

Sample Type — Matrix

Sample Number: Group or SWMU Name	Sample Number: Sample Point	Sample Number: Sample Designator	Sample Event: Round	Sample Event: Year	Sample Depth (in feet): From	Sample Depth (in feet): To	Sample Collected: Date	Sample Collected: Time	Matrix: Liquid	Matrix: Solid	Matrix: Gas	Number of Containers	Analysis: TPHd (8015)	Analysis: VOCs (8260)	Analysis: O&G	Analysis:	Analysis:	Remarks
	MW-2						12-17	1430	X		~~Air~~		X	X	X		001	3-day TAT.
	MW-3							1510	X		~~Air~~		X	X	X		002	
	MW-4							1610	X		~~Air~~		X	X	X		003	
	MW-5							1645	X		~~Air~~		X	X	X		004	
	Dup-1							—	X		~~Air~~		X	X	X		005	

3 DAYS

Sampler (signature):

Sampler (signature):

Special Instructions:
Gary

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
1.	12-18-07 0825		12/18/07 0825
2.	12/18/07 1155		

Ice Present in Container: Yes ☐ No ☐

Temperature Upon Receipt:

Laboratory Comments:

APPENDIX D

WELL DEVELOPMENT FORMS

Burns & McDonnell
SINCE 1898

WELL DEVELOPMENT FORM- Continuation

Site Name: YRE-OAK

Project Number: _____

Well ID: MW-2

Recorded By: Greg Collins

Date: 12-11-07

Observations During Well Development 22

Date	Time	WL	TD	Volume	Temp	pH	Conductivity	Remarks
12-11-07	920	1.5	9.2	I	16.13	10.01	[illegible]	muddy grayish brown
12-11-07	931	1.5	9.2	5	15.43	8.58	19	muddy grayish brown
12-11-07	938	1.7	9.2	10	15.20	7.46	15	less muddy grayish brown
12-11-07	943	1.7	9.2	15	15.26	6.10	18	SAA
12-11-07	946	1.9	9.2	20	15.13	6.05	34	grayish brown less muddy
12-11-07	949	1.9	9.2	25	15.04	5.02	38	light grayish brown
12-11-07	952	2.0	9.2	30	15.06	4.80	38	light grayish brown
12-11-07	955	2.0	9.2	35	15.15	4.62	46	light grayish brown
12-11-07	1000	2.2	9.2	40	15.01	4.04	43	light gray
12-11-07	1005	2.2	9.2	45	14.66	4.19	41	light gray
12-11-07	1010	2.2	9.2	50	14.77	3.94	39	light gray
12-11-07	1015	2.4	9.2	55	14.76	4.10	38	light gray
12-11-07	1020	2.4	9.2	60	14.42	4.39	35	light gray

Notes:
Volume units are in gallons
Conductivity units are in microsiemens per centimeter (µS/cm)

TOTAL DEPTH 9.2 - 1.5 x 16 x 10 x .0408 = 49.8
DTW = 1.5
4²

50 Gal

PH keeps dropping

K:\General\development - 2007

Burns & McDonnell
SINCE 1898

WELL DEVELOPMENT FORM- Continuation

Site Name: YRE-OAK

Project Number: _____

Well ID: MW-3

Recorded By: Greg Cook

Date: 12-11-07

Observations During Well Development

Date	Time	WL	TD	Volume	Temp C	pH	Conductivity	Remarks
12-11-07	1105	4.7	26.6	1	18.94	11.25	416	TANNISH brown M-ODY SEDS
12-11-07	1110	4.7	26.6	4gal	18.88	10.26	0	TANNISH brown high turbidity SEDS
12-11-07	1115	7.0	26.6	8	19.02	9.90	0	TANNISH brown high turbidity SEDS
12-11-07	1120	7.0	26.6	12	18.85	9.80	0	tannish brown high turbidity SEDS
12-11-07	1125	7.0	26.6	16	18.46	9.72	0	light tannish brown SEDS
12-11-07	1130	8.5	26.6	20	17.87	9.24	0	light tannish brown mod turbidity
12-11-07	1135	8.5	26.6	24	17.20	8.96	0	light tannish brown moderate tur.
12-11-07	1140	8.5	26.6	28	15.10	8.75	0	light tannish brown moderate tur.
12-11-07	1145	8.5	26.6	32	16.18	8.96	254	light brown minor SEDS
12-11-07	1150	8.5	26.6	36	15.21	7.64	0	light brown
12-11-07	1154	9.2	26.6	40	17.22	7.10	0	very light brown

Notes:
Volume units are in gallons
Conductivity units are in microsiemens per centimeter (µS/cm)

$26.6 - 4.7 \times 2^2 \times 10 \times .04 = 35.56$

~ 36

4.7 DTW

29.6 TD

Burns & McDonnell
SINCE 1898

WELL DEVELOPMENT FORM- Continuation

Site Name: YFE-OAV-0007

Project Number: _____

Well ID: MW-4

Recorded By: Greg Carr-5

Date: 12-11-07

Observations During Well Development

Date	Time	WL	TD	Volume	Temp	pH	Conductivity	Remarks
12-11-07	1315	3.85	29.5	1	13.84	9.77	495	tannish brown - muddy seds ~~Sand~~
12-11-07	1319	3.85	29.5	4	15.86	12.67	133	tannish brown - high turbidity - seds
12-11-07	1323	3.85	29.5	8	11.84	10.13	199	tannish brown high turbidity seds
12-11-07	1326	3.85	29.5	12	15.83	9.66	272	light tannish brown high turbidity
12-11-07	1329	3.85	29.5	16	16.10	9.40	296	light brownish mod. turbidity seds
12-11-07	1335	4.3	29.5	20	15.32	10.05	481	light brown mod. turbidity seds
12-11-07	1340	4.3	29.5	24	17.65	9.97	652	light brown moderately turbid seds
12-11-07	1344	4.3	29.5	28	17.51	9.97	674	lt brown low turbidity seds
12-11-07	1348	5.0	29.5	32	11.71	10.75	784	lt brown low turbidity
12-11-07	1352	5.0	29.5	36	10.79	10.10	582	light brown
12-11-07	1356	5.0	29.5	40	18.16	10.50	622	light brown
12-11-07	1400	5.8	29.5	44	18.07	10.53	642	very light brown
12-11-07	1404	5.8	29.5	48	17.79	10.44	642	Very light brown
12-11-07	1408	5.8	29.5	52	17.84	10.50	516	Very light brown
12-11-07	1412	5.8	29.5	55	17.89	9.90	649	Very light brown

Notes:
Volume units are in gallons
Conductivity units are in microsiemens per centimeter (µS/cm)

29.5 - 3.85 x 4 x 10 x .0408 = 41.65

Burns & McDonnell
SINCE 1898

WELL DEVELOPMENT FORM- Continuation

Site Name: YRE OAK

Project Number: _____

Well ID: MW-5

Recorded By: Grey (Collins)

Date: 12-11-07

Observations During Well Development

Date	Time	WL	TD	Volume	Temp	pH	Conductivity	Remarks
12-11	1446	4.6	29.2	1	15.07	9.10	380	Brownish Gray 1" of SAND
12-11	1450	4.6	29.2	4	14.81	9.02	442	Brownish Gray 1" of SAND
12-11	1454	4.6	29.2	8	14.51	8.89	452	Brownish gray Some Seds
12-11	1458	4.8	29.2	12	16.48	8.69	460	light brownish gray some seds
12-11	1502	4.8	29.2	16	15.79	8.62	514	light brownish gray some seds
12-11	1506	4.8	29.2	20	14.65	9.10	1002	light brownish gray some seds
12-11	1510	4.8	29.2	24	11.60	8.82	1038	light brown trace sand
12-11	1515	4.8	29.2	28	15.01	8.84	870	light brown
12-11	1520	4.8	29.2	32	15.61	8.37	928	light brown
12-11	1525	4.8	29.2	36	13.13	8.91	1015	light brown
12-11	1530	4.8	29.2	40	16.89	9.15	1085	very light brown
12-11	1534	4.8	29.2	44	10.11	9.05	1043	very light brown

Notes:
Volume units are in gallons
Conductivity units are in microsiemens per centimeter (µS/cm)

TOTAL Depth 29.2

DTW 4.6

24.6 x 2² x 10 x .0408 = 40.1

TOTAL Depth F 28.6

APPENDIX E

GROUNDWATER SAMPLING FORMS

Yellow Freight - OAKLAND
Field Data Sheet*
Groundwater Monitoring

Date:12/17/07
Field Sampler:Patrick Bratton

* An individual Groundwater Sampling form needs to be completed for each well monitored

Well ID	Depth to Groundwater ft below top of casing (BTOC)			Total Depth	Casing Diameter	Notes
	Time	1st Reading	2nd Reading	(ft BTOC)	(inches)	
MW-2	1402	1.56	1.56	9.2	4	
MW-3	1405	4.40	4.40	29.4	2	
MW-4	1409	3.66	3.66	29.5	2	
MW-5	1412	4.11	4.11	29.2	2	

Burns & McDonnell
SINCE 1898

GROUNDWATER SAMPLING FORM

Site Name: Yellow Frt. Oakland
Project Number: 47561
Recorded By: PB

Well Number: MW-2
Well Type: Monitoring
Date: 12-17-07
Sample Time: 1430

Purge Method

Low Flow
Pumping Method: Peristaltic Pump
Other-Type:

Purge Volume

Casing Diameter (D in inches): 4"
Total Depth of Casing (TD in feet BTOC): 9.2
Water Level Depth (WL in feet BTOC): 1.56

Length of Tubing Down Well: 8 ft
Average Flow Rate: 250 mL/min
Sampling Flow Rate: 200 mL/min

Total Volume Generated (~~gallons~~): 2.5L

Start Time: 1415 Stop Time: 1445

Field Parameter Measurements

Time	Volume (mL)	Temp	DO	pH	Redox	Conductivity	Remarks
1417	Init	16.49	10.50	6.80	-84.8	1972	Slightly Cloudy
1418	250	16.42	2.59	6.50	-67.2	1993	Slightly Cloudy
1419	500	16.47	2.26	6.46	-63.6	1988	Sea
1420	750	16.51	2.13	6.46	-66.7	1977	Sea
1421	1000	16.52	1.98	6.46	-69.0	1966	Sea
1422	1250	16.52	1.87	6.44	-70.4	1958	Sea
1423	1500	16.50	1.76	6.43	-71.3	1953	Sea
1424	1750	16.45	1.68	6.43	-71.8	1950	Sea
1425	2000	16.44	1.64	6.42	-71.4	1933	Sea
1426	2250	16.41	1.62	6.44	-71.6	1930	

Notes:
Temperature is measured in degrees Celsius
Volume units are in mL
Conductivity units are in microsiemens per centimeter (mS/cm)

Sampling Information

Sample Point	Sample Designator	# of Containers	Preservatives	Analysis/Comments
MW-2	MW-2	3	HCl	VOCs
	MW-2	2	—	TPH diesel
	MW-2	2	H_2SO_4	Oil + Grease

Burns & McDonnell
SINCE 1898

GROUNDWATER SAMPLING FORM

Site Name: Yellow Frt. Oakland
Project Number: 47561
Recorded By: PB

Well Number: MW-3
Well Type: Monitoring
Date: 12-17
Sample Time: 1510

Purge Method

Low Flow
Pumping Method: Peristaltic Pump
Other-Type:

Purge Volume

Casing Diameter (D in inches): 2"
Total Depth of Casing (TD in feet BTOC): 29.4
Water Level Depth (WL in feet BTOC): 4.40

Length of Tubing Down Well: 20'
Average Flow Rate: 250mL/min
Sampling Flow Rate: 200mL/min

Total Volume Generated ~~(gallons)~~: 2 Liters

Start Time: 1455 Stop Time: 1525

Field Parameter Measurements

Time	Volume	Temp	DO	pH	Redox	Conductivity	Remarks
1457	Init	18.41	2.31	6.30	110	6318	Cloudy, whitish
1458	250	18.72	1.38	6.25	113	6443	Cloudy, whitish
1459	500	18.96	1.24	6.15	120	6570	Sea
1500	750	19.01	1.23	6.15	121	6580	Sea
1501	1000	19.06	1.18	6.13	123	6596	Sea
1501	1250	19.03	1.19	6.11	125	6592	Sea
1503	1500	19.07	1.21	6.09	128	6589	Sea
1504	1750	19.08	1.23	6.08	129	6589	Sea

Notes:
Temperature is measured in degrees Celsius
Volume units are in mL
Conductivity units are in microsiemens per centimeter (mS/cm)

Sampling Information

Sample Point	Sample Designator	# of Containers	Preservatives	Analysis/Comments
MW-3	MW-3	3	HCl	VOCs
	MW-3	2	—	TPHd
	MW-3	2	H_2SO_4	Oil + Grease
	Dup-1	3/2/2	HCl/—/H_2SO_4	

Burns & McDonnell
SINCE 1898

GROUNDWATER SAMPLING FORM

Site Name: Yellow Frt. Oakland
Project Number: 47561
Recorded By: PB

Well Number: MW-4
Well Type: Monitoring
Date: 12-17-07 Sample Time: 1610

Purge Method

Low Flow
Pumping Method: Peristaltic Pump
Other-Type:

Purge Volume

Casing Diameter (D in inches): 2"
Total Depth of Casing (TD in feet BTOC): 29.5
Water Level Depth (WL in feet BTOC): 3.66

Length of Tubing Down Well: 20 ft
Average Flow Rate: 250mL/min
Sampling Flow Rate: ~200mL/min

Total Volume Generated (~~gallons~~): 2 L

Start Time: 1350 Stop Time: 1620

Field Parameter Measurements

Time	Volume	Temp	DO	pH	Redox	Conductivity	Remarks
1553	Init	18.67	1.17	6.65	134	4946	Cloudy, White
1554	250	18.70	1.03	6.53	135	4939	Cloudy, White
1555	500	18.71	0.89	6.47	136	4945	Sam
1556	750	18.89	0.85	6.44	135	4950	Sam
1557	1000	19.02	0.81	6.42	135	4961	Sam
1558	1250	19.13	0.80	6.40	135	4970	Sam
1559	1500	19.29	0.76	6.37	134	4979	Sam
1600	1750	19.36	0.74	6.36	134	4982	Sam
1601	2000	19.38	0.74	6.34	134	4982	Sam

Notes:
Temperature is measured in degrees Celsius
Volume units are in mL
Conductivity units are in microsiemens per centimeter (mS/cm)

Sampling Information

Sample Point	Sample Designator	# of Containers	Preservatives	Analysis/Comments
	MW-4	3	HCl	VOCs
	MW-4	2	—	TPH-D
	MW-4	2	H_2SO_4	O.I + Grease

Burns & McDonnell
SINCE 1898

GROUNDWATER SAMPLING FORM

Site Name: Yellow Frt. Oakland
Project Number: 47561
Recorded By: PB

Well Number: MW-5
Well Type: Monitoring
Date: 12-17-07 Sample Time: 1645

Purge Method

Low Flow
Pumping Method: Peristaltic Pump
Other-Type:

Purge Volume

Casing Diameter (D in inches): 2"
Total Depth of Casing (TD in feet BTOC): 29.2
Water Level Depth (WL in feet BTOC): 4.11

Length of Tubing Down Well: 20'
Average Flow Rate: 250mL/min
Sampling Flow Rate: 200mL/min

Total Volume Generated (~~gallons~~): 2.5L

Start Time: 1620 Stop Time: 1655

Field Parameter Measurements

Time	Volume	Temp	DO	pH	Redox	Conductivity	Remarks
1630	Init	19.83	1.5	6.37	147	7580	Slightly Cloudy
1631	250	19.85	0.90	6.34	145	7595	Same
1631	500	19.87	0.83	6.32	142	7622	Same
1632	750	20.02	0.79	6.30	137	7709	Same
1633	1000	20.07	0.80	6.30	136	7728	Same
1634	1250	20.08	0.85	6.29	133	7752	Same
1635	1500	20.07	0.87	6.29	132	7761	Same
1636	1750	20.17	0.90	6.28	130	7771	Same
1637	2000	20.17	0.92	6.28	129	7771	Same

Notes:
Temperature is measured in degrees Celsius
Volume units are in mL
Conductivity units are in microsiemens per centimeter (mS/cm)

Sampling Information

Sample Point	Sample Designator	# of Containers	Preservatives	Analysis/Comments
	MW-5	3	HCl	VOCs
	MW-5	2	—	TPHd
	MW-5	2	H_2SO_4	Oil & Grease

APPENDIX F

MONITORING WELL SURVEY REPORT

Luk and Associates
738 Alfred Nobel Drive
Hercules, CA 94547
510-724-3388 Fax: 510-724-3383

Civil Engineering
Land Planning
Land Surveying

December 20, 2007
Job No. 27151-10

Patrick Bratton
Burns & McDonnell Engineering Co., Inc.
393 East Grand Avenue, Suite J
South San Francisco, CA 94002

Subject: Monitoring Well Survey
1708 Wood Street
Oakland, California

Dear Patrick:

Per your request on December 17, 2007, monitoring well locations have been converted to Coordinate System NAD 83, California, Zone 3, and the elevations are based on NAVD 88. The following monitoring wells have been located per your request:

Well No.	Description	Northing	Easting	Latitude (N)	Longitude (W)	Elevation
MW2	Casing	2124215.458	6043390.167	37° 48' 54.24775"	122° 17' 39.44077"	9.892
MW2	Rim	2124215.358	6043390.145	37° 48' 54.24676"	122° 17' 39.44104"	10.25
MW3	Casing	2124205.327	6043371.707	37° 48' 54.14411"	122° 17' 39.66838"	10.112
MW3	Rim	2124205.237	6043371.794	37° 48' 54.14323"	122° 17' 39.66730"	10.406
MW4	Casing	2124223.653	6043449.865	37° 48' 54.34007"	122° 17' 38.69892"	9.521
MW4	Rim	2124223.659	6043449.83	37° 48' 54.34013"	122° 17' 38.69933"	9.819
MW5	Casing	2124174.94	6043438.409	37° 48' 53.85638"	122° 17' 38.82999"	9.968
MW5	Rim	2124174.783	6043438.318	37° 48' 53.85481"	122° 17' 38.83110"	10.325

Also, please note the followings:

1. The X, Y, and Z value is obtained by GPS (Global Positioning System) method.
2. The GPS equipment is the Trimble R8 Rover Kit O SC/SW, 450-170 MHZ.
3. The X and Y accuracy is 0.03' horizontally and is based on the exact measurement point of the top of the pipe.
4. The elevation accuracy is 0.04' vertically and is based on the exact measurement point of the top of the pipe.

Please feel free to give me a call if you have any questions.

Sincerely yours,

LUK AND ASSOCIATES
CIVIL ENGINEERS/SURVEYORS/PLANNERS

Paul Canumay, P.L.S. 3272
Project Surveyor