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Environmental Health

**STARTUP REPORT
NPDES TREATMENT SYSTEM
UNDER NPDES CAG912002**

EMERY STATION EAST
5885 HOLLIS STREET
EMERYVILLE, CA

APRIL 19, 2006

Prepared for:
DPR
Redwood City, California

Prepared by:



Pacific States
ENVIRONMENTAL CONTRACTORS, INC.
California Contractor License #723241-A-HA7

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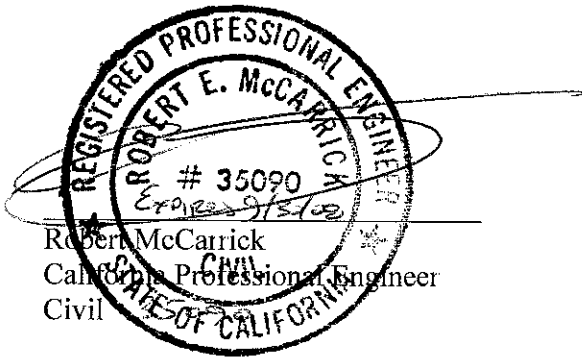
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SIGNATURE PAGE

All engineering information, conclusions, and recommendations contained in this report have been prepared by a California Professional Engineer.



Robert McCarrick
California Professional Engineer
Civil

4/25/06
Date

1.0 INTRODUCTION

This Startup Report (Report) has been prepared by Pacific States Environmental Contractors, Inc. (PSEC) on behalf of Wareham Development Group San Rafael, California. The Application has been prepared for discharge of water generated by dewatering activities on the property located at 5885 Hollis Street Emeryville, CA. A Site Location Map as well as a Site Plan are shown in **Figure 1** and **Figure 2**, respectively. The site will be developed into either a commercial/laboratory space or multi-family residential constructed over subgrade parking.

This Report is being submitted to the Regional Water Quality Control Board – San Francisco Region (“the Regional Board”) pursuant to Order Number 01-100, CAG912002, a General Waste Discharge Requirement Permit. The Report describes the startup of the NPDES treatment system treating groundwater generated by dewatering activities during construction work taking place onsite. The groundwater beneath part of the Site is impacted by petroleum hydrocarbons.

As part of the development, excavation of underlying soil will be conducted to allow for a subgrade basement garage. The excavation will require dewatering and these dewatering activities will remove a significant quantity of contaminated groundwater. That water will be treated using treatment equipment provided by Baker Tanks and maintained by PSEC.

2.0 PROJECT DESCRIPTION

Groundwater from dewatering operations will be pumped to the temporary treatment system. Water will be pumped into two 21,000-gallon tanks, arranged in series, to allow settlement of suspended solids. The water will then pass through a sand filter, and then through at least two 2,000-pound 75-psi granular activated carbon vessels arranged in series containing either coconut shell carbon or bituminous carbon. The water may be discharged to an effluent storage tank to make treated water available for dust control and compaction use during construction, or it will be discharged to the storm drain inlet at the south end of the jobsite on Pleadeau Street. The process flow schematic is shown in **Figure 3**.

2.1 DESIGN CRITERIA

The maximum dewatering influent and effluent discharge flow rate for the treatment system of 30 wells is 5 gallons per minute per well, or 216,000 gallons per day. Average daily flows will likely be in the range of 210,000 to 220,000 gallons per day. Maximum inflow concentrations of total petroleum hydrocarbons as diesel (TPH-d) have been estimated at 8,400 µg/l. The system is also designed to treat low concentrations of benzene, toluene, ethyl benzene and total xylenes (BTEX), and other non-chlorinated volatile organic compounds (VOCs) that may be encountered during dewatering.

Effluent criteria for benzene, toluene and ethyl benzene compounds are 5 µg/l. Effluent criteria for TPH is 50 µg/l.

TPHg, TPH-d, and BTEX concentrations will be monitored via samples collected at the influent (I-1, following the settling tank), the carbon filter midpoint (M-1), and effluent from the carbon filters (E-1). Additional sampling will occur as required in the NPDES permit CAG912002 Self-Monitoring Program.

3.0 NPDES SELF-MONITORING PROGRAM

Samples were collected at system startup, March 30, 2006 and on the fifth day of operation, April 7, 2006, to characterize untreated water, treatment system status and effluent discharge quality.

3.1 START-UP

Start-up of the treatment system began March 30, 2006. Treated water generated during the first 4 hours (approximately 4,000 gallons) was stored on site pending receipt of analytical results. Discharge from the treatment system began on April 3, 2006.

During the five-day start-up period, approximately 14,100 gallons of groundwater were treated and discharged. The average flow rate during start-up was 1.22 gallons per minute (gpm). System flow rates for the first week of treatment are summarized in **Table 1**.

3.2 SAMPLING

Influent and effluent samples were collected for laboratory analysis as required by the NPDES Self-Monitoring Program. TPHg, TPH-d, and BTEX concentrations were monitored via samples collected at the influent (I-1, following the settling tank) and effluent from the carbon filters (E-1). Temperature, pH, and electrical conductivity were monitored during sampling.

Samples were collected from sample taps in the treatment system into laboratory-supplied sample bottles. After filling and labeling, the sample containers were placed in ice-cooled, insulated chests for transport to the laboratory for analysis. Chain-of-custody records were completed for the samples. These records accompanied the samples until receipt by McCampbell Analytical Inc., of Pacheco, a California Department of Health Services Environmental Laboratory Accreditation Program (ELAP) certified laboratory (ELAP# 1644).

Laboratory quality assurance/quality control (QA/QC) data and reporting limits were reviewed for each laboratory report received.

The self-monitoring samples were analyzed for turbidity, pH, hardness, conductivity, BTEX, MTBE, thirteen total metals, hex chromium, mercury, total cyanide, EDB, VOC's, TAME, DIPE, ETBE, TBA, ethanol, methanol, SVOC's, PAH's and total extractable petroleum hydrocarbons as gasoline (TPHg) and diesel (TPHd).

3.3 ANALYTICAL RESULTS

Results of self-monitoring analyses are summarized in **Tables 2** through **5** and discussed below. Copies of the laboratory analyses and chain of custody forms can be found in **Appendix A**

3.3.1 General Chemistry

As required by the General Permit, samples collected at I-1 and E-1 on March 30, 2006 and April 7, 2006 were analyzed for pH, temperature, turbidity, hardness (as CaCO₃) and electric conductivity. Results of the General Permit chemistry analyses are summarized in **Table 2**.

On March 30, 2006, the pH at the influent ranged from 7.3 standard units (S.U.) as measured in the laboratory to 7.6 S.U. as measured in the field. The pH at the effluent ranged from 8.09 S.U. as measured in the laboratory to 8.0 as measured in the field. The water was not discharged. It was stored onsite pending the results of analyses the following day.

The slight increase in pH across the treatment system was attributed to the GAC activation process. The pH of the GAC was adjusted by the vendor prior to purchase.

Field measurements revealed influent temperatures of 21.3 °C, effluent temperatures 22.1°C; influent conductivity at 800 µmhos/cm and effluent conductivity 900 µmhos/cm.

Laboratory analysis showed turbidity of 4.10 and 29 Nephelometric Turbidity Units (NTUs) for the effluent samples collected on March 30, 2006 and April 7, 2006, respectively. In addition, the laboratory analysis showed hardness of 260 mg/L and 290 mg/L for the effluent samples collected on March 30, 2006 and April 7, 2006, respectively.

3.3.2 Inorganic Analyses

On March 30, 2006 and April 7, 2006, samples of influent and effluent were collected for analysis of inorganic chemicals. Inorganic chemicals analyzed included antimony, arsenic, beryllium, cadmium, chromium, copper, lead, nickel, selenium, silver, thallium, and zinc analyzed by EPA Method E200.8, mercury analyzed by EPA Method E1631, cyanide analyzed by EPA Method E335.3, Hex Chromium analyzed by EPA Method E218.6. Sampling results are summarized in **Table 3**.

3.3.3 TPH

Influent and effluent samples collected on March 30, 2006 and April 7, 2006, were analyzed for total petroleum hydrocarbons as gasoline, diesel and BTEX compounds. Laboratory analysis of the samples revealed that the discharge limit for TPH of 50 micrograms per liter ($\mu\text{g/l}$) was not exceeded. A summary of these results is presented in **Table 4**

3.3.4 Volatile Organic Compounds (VOCs) and Semi Volatile Organic Compounds (SVOCs).

Laboratory analysis for VOCs by EPA Method 8260B and SVOC's by EPA Method 8270D for the effluent sample collected on April 7, 2006 revealed no exceedances of the concentration-based triggers. A summary of VOC and SVOC analytical is also presented in **Table 4**.

3.3.5 Fish Bioassay Results

Laboratory results for a fish bioassay performed on the system effluent on April 7, 2006 indicated a 100% survival rate. Results are summarized in **Table 5**.

3.4 SUMMARY OF SYSTEM START-UP OPERATION

Following review of effluent analytical data collected on March 30, 2006, discharge began on April 3, 2006. Approximately 14,100 gallons of groundwater were extracted and treated between April 3 and April 7, 2006. The average flow rate was approximately 1.2 gpm.

4.0 PLANNED WORK – SECOND QUARTER 2006

Sampling and analysis of influent and effluent water from the treatment system will continue during the remainder of the second quarter of 2006. Monthly samples will be collected in accordance with the schedule and procedures specified in the General Permit.

In accordance with the Self-Monitoring Program, quarterly NPDES self-monitoring reports will continue to be prepared and submitted to the Regional board. The anticipated submittal date for the Second Quarter 2006 quarterly report is July 15, 2006.

Tables

TABLE 1
 FLOW SUMMARY FOR NPDES TREATMENT SYSTEM
 Wareham Labs
 Emeryville, CA

Date	Instantaneous Flow Rate (gpm)	System Average Flow Rate (gpm)	System Cumulative Volume (gallons)
March 29, 2006	0	0.0	0
March 30, 2006	150	0.0	0
April 3, 2006	150	1.0	5500
April 5, 2006	150	0.9	7500
April 7, 2006	150	1.2	14100
April 10, 2006	150	2.2	34300
April 21, 2006	150	8.3	262900

Total Operating Period (days)	22
Total Volume Treated & Discharged (gallons)	262,900
Average Daily Flow for Period (gallons per day)	11,950

TABLE 2
GENERAL CHEMICAL TREATMENT DATA
Wareham Labs
Emeryville, California

Sample Location	Date Sampled	Temperature (Field) (°C)	pH	Electrical Conductivity	Turbidity
			Field (S.U.)	(Laboratory) µmhos/cm	(NTUs)
Influent	3/30/2006	21	7.6	837	440
	4/7/2006	21.5	7.5	1140	735
Effluent	3/30/2006	22.1	8	852	4.1
	4/7/2006	20.5	7.9	1050	29
Effluent Limitations		--	6.5-8.5	-	--
Receiving Water Limitations		No change	Change <0.5	No change	No change

Notes:

°C – degrees centigrade, measured in field
µmhos/cm – micromhos per centimeter
NTUs – nephelometric turbidity units
mg/l – milligrams per liter
-- not analyzed

TABLE 3
 INORGANIC CHEMICAL DATA – TOTAL METALS*
 Wareham Labs
 Emeryville, California

Sample Location	Date Sampled	Flowrate (gpd)	Antimony (µg/l)	Arsenic (µg/l)	Beryllium (µg/l)	Cadmium (µg/l)	Chromium (µg/l)	Copper (µg/l)	Lead (µg/l)	Mercury (µg/l)	Nickel (µg/l)	Selenium (µg/l)	Silver (µg/l)	Thallium (µg/l)	Zinc (µg/l)	Cyanide (µg/l)	Hexachrome (µg/l)
Influent	3/30/2006	1,368	0.81	2.1	ND	ND	15	6.2	1.3	0.015	10	0.96	ND	ND	21	ND	7.7
	4/7/2006	1,756	0.7	2.9	ND	ND	2.6	7	n	0.016	5.5	0.75	ND	ND	25	ND	1.5
Effluent	3/30/2006	1,368	1.3	10	ND	ND	0.72	52	9.4	0.0035	6.5	0.97	ND	ND	86	ND	ND
	4/7/2006	1,756	1.3	7.5	ND	ND	7.6	8	2.4	0.0028	10	1.1	ND	ND	21	ND	ND
Mass Discharged (g/d) 4/3/2006			6.74E-03	5.18E-02	N/A	N/A	3.73E-03	2.69E-01	4.87E-02	1.81E-05	3.37E-02	5.03E-03	N/A	N/A	4.46E-01	N/A	N/A
Mass Discharged (g/d) 4/7/2006			8.65E-03	4.99E-02	N/A	N/A	5.06E-02	5.32E-02	1.60E-02	1.86E-05	6.65E-02	7.32E-03	N/A	N/A	1.40E-01	N/A	N/A
Mass Based Trigger (g/d) Flow: less than 10 gpm			3	1	3	1	2	3	5	0.01	5	2	1	3	10	1	N/A
Mass Based Trigger (g/d) Flow: >100 gpm			10	10	10	4	20	10	10	0.5	40	45	10	10	200	1	N/A

Notes:

gpd – gallons per day
 µg/l – micrograms per liter
 g/d – grams per day
 ND – Not detected
 -- not analyzed

TABLE 4
 PETROLEUM HYDROCARBON AND
 VOLATILE ORGANIC COMPOUND CONCENTRATIONS¹
 Wareham Labs
 Emeryville, CA

Sample Location	Date Sampled	Petroleum Hydrocarbons						
		TPH-g (µg/l)	TPH-d (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethyl- benzene (µg/l)	Total Xylenes (µg/l)	MTBE (µg/l)
Influent	3/30/2006	200,000	64	1400	510	ND	ND	ND
	4/7/2006	70,000	ND	630	ND	ND	ND	ND
Effluent	3/30/2006	ND	ND	ND	ND	ND	ND	ND
	4/7/2006	ND	ND	ND	ND	ND	ND	ND
Effluent Limitations		50	50	1	5	5	5	5

Notes:

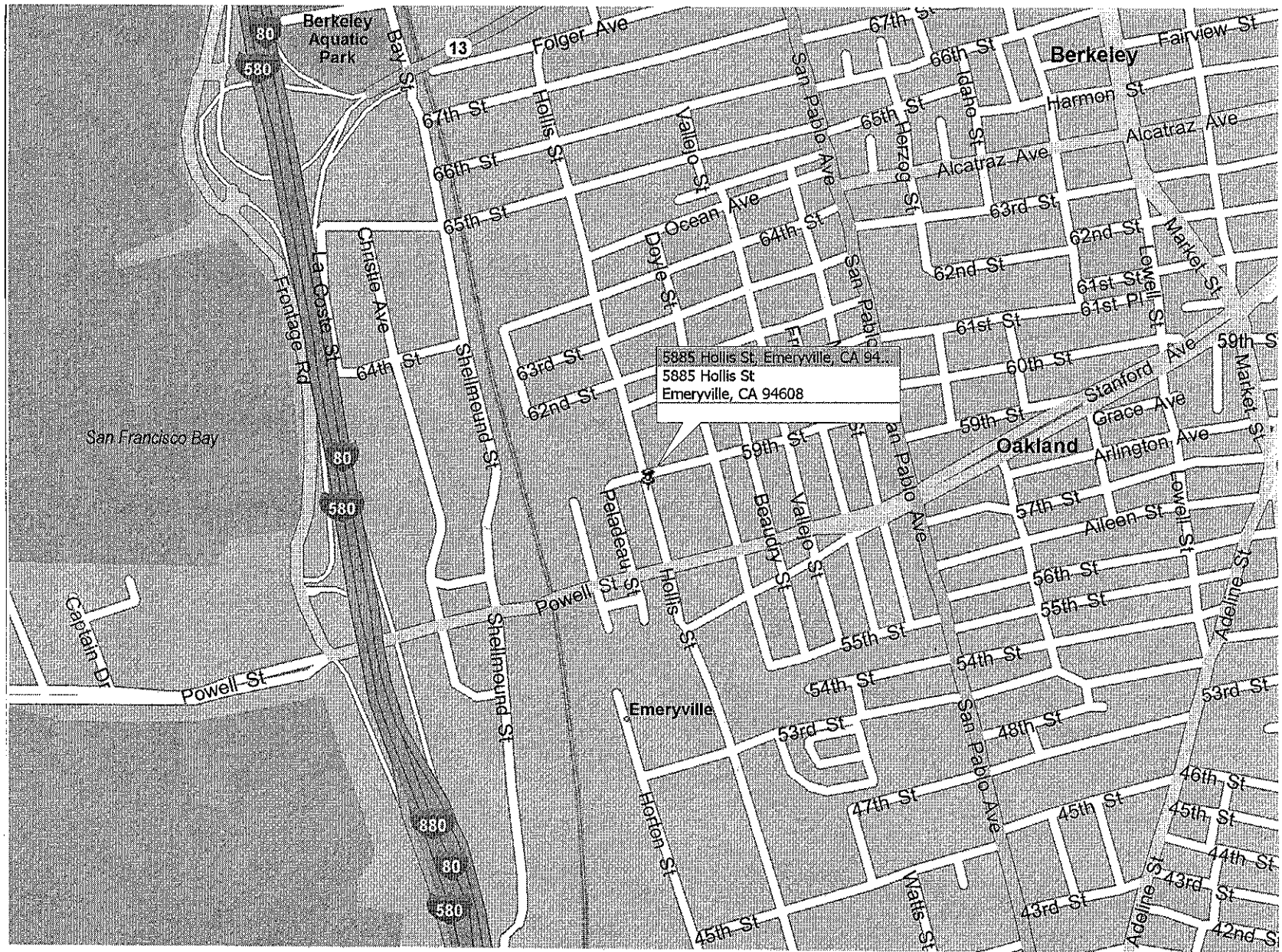
µg/l – Micrograms per liter
 TPH-g – Total petroleum hydrocarbons as gasoline
 TPH-d – Total petroleum hydrocarbons as diesel

¹ – Influent and effluent samples taken on April 7, 2006 were analyzed for Volatile Organic Compound (VOC) by EPA Method 8260B; for Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270D for Alcohols by GC-FID and for Polynuclear Aromatic Hydrocarbons. All effluent compounds were non-detect.

TABLE 5
FISH BIOASSAY RESULTS - EFFLUENT
Wareham Labs
Emeryville, CA

Date	Test Organisms	% Survival
4/7/2006	Fathead Minow	100

Figures

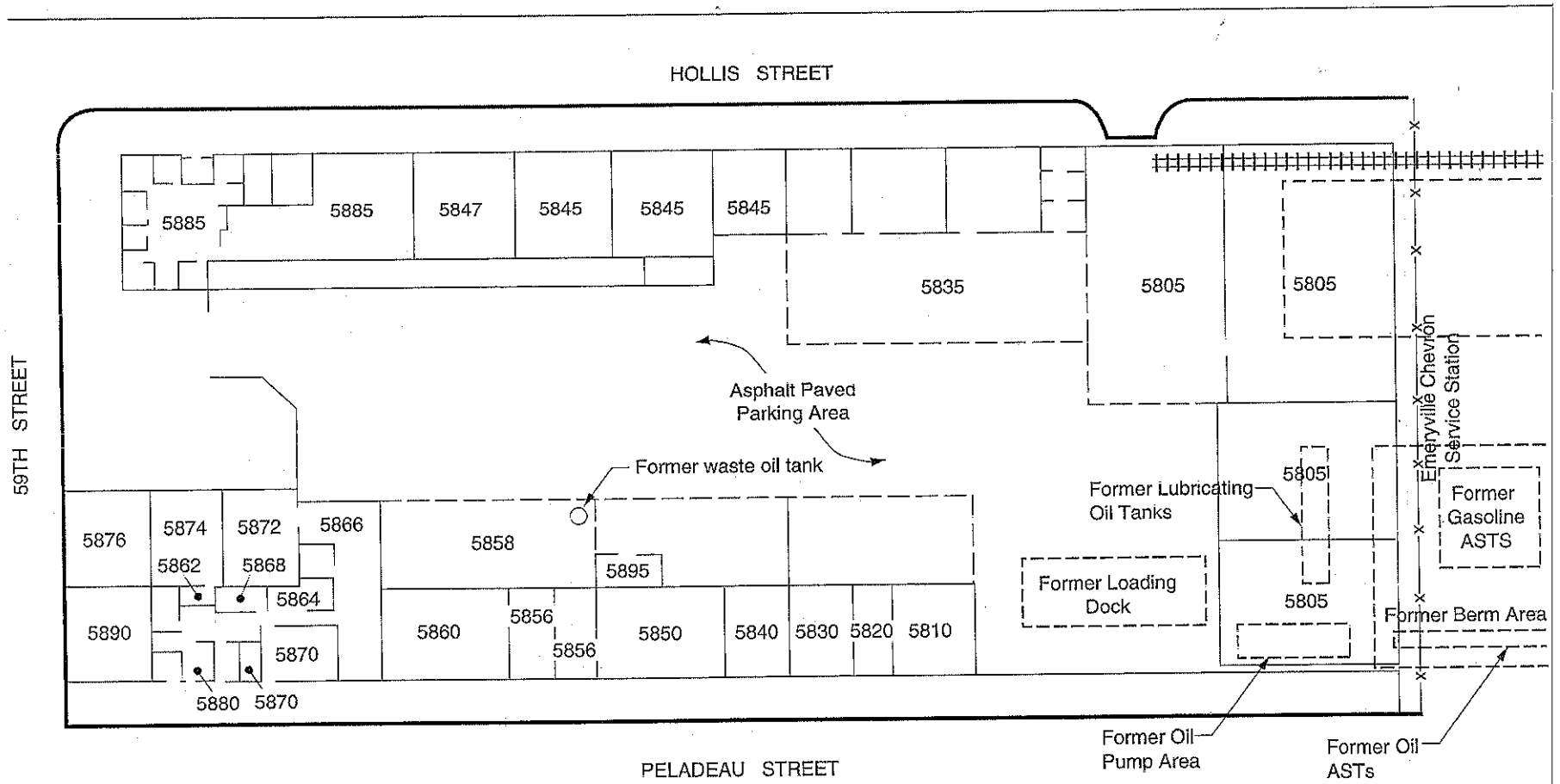


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 California Contractor License #723241-A-AZ

Site Location Map

5885 Hollis Street
 Emeryville, CA

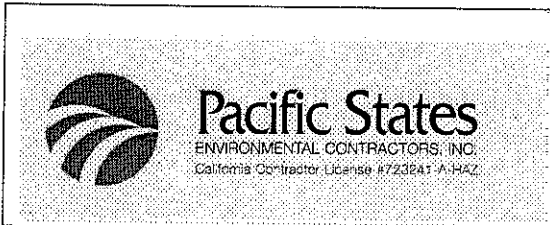
Figure
 1



EXPLANATION:

[- - -] Approximate location of Union Oil or California Operations

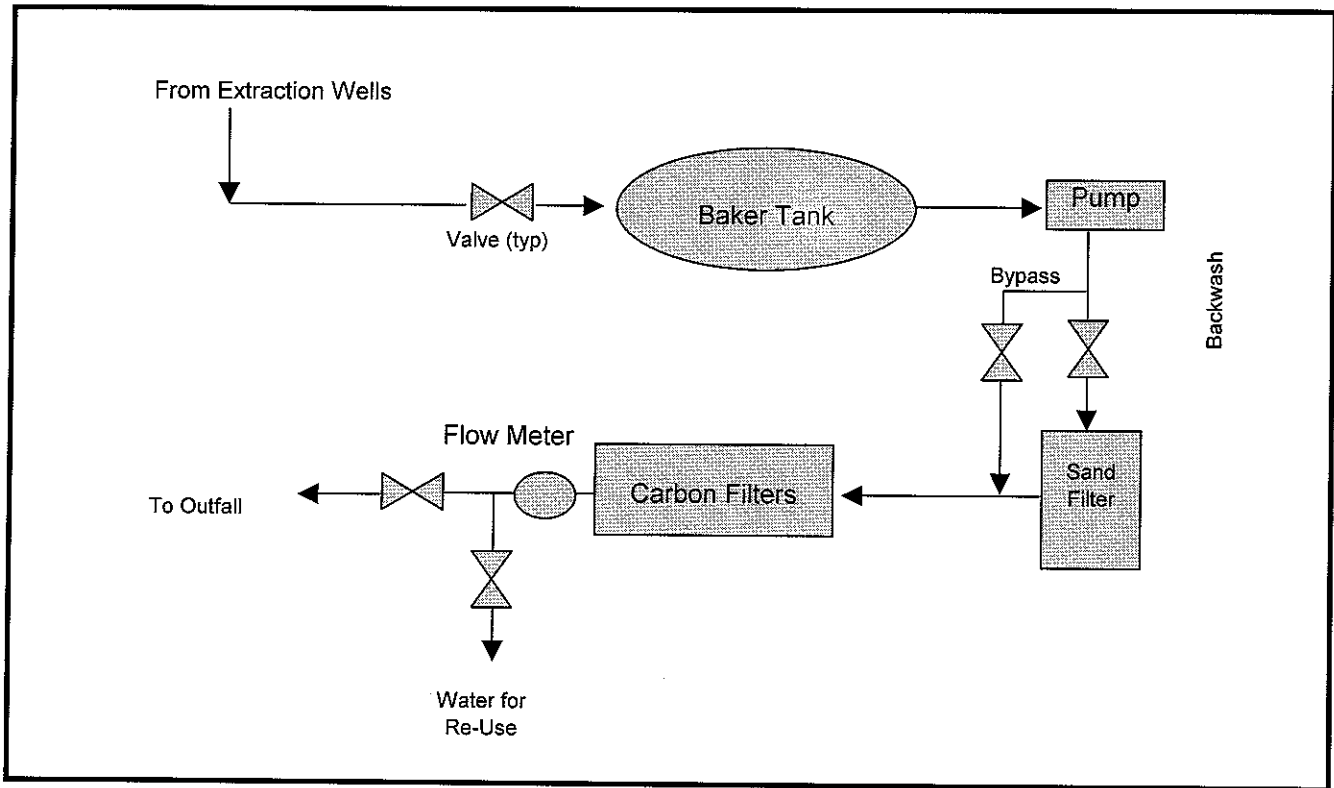
5885 HOLLIS STREET
Emeryville, California




Site Plan

5885 Hollis Street
Emeryville, CA

Figure
2




Pacific States
 ENVIRONMENTAL CONTRACTORS, INC.
California Contractor License # 232617 HAZ

Process Flow Schematic
5885 Hollis Street
Emeryville, CA

Figure
3

APPENDIX A

Psed 0603046

RUSH

McCAMPBELL ANALYTICAL INC.

110 2ND AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Analysis Request

Other Comments

BTEX & TPH as Gas (602/8020 + 8015) <input checked="" type="checkbox"/>	TPH as Diesel (801.5)	Total Petroleum Oil & Grease (3520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / YNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (Zinc 2.00g/L)	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	pH, Electrical Conductivity	TPH - Diesel 8015 Method	Chromium Hexavalent 2.18	Mercury Total 1631 PL. 2.18 ug/L	Cyanide Total 335
---	-----------------------	---	--------------------------------------	----------------	----------------------------	----------------	---------------------------	-----------------------	----------------	--	------------------------------	---------------	-----------------------------	-----	-----------------------------	--------------------------	--------------------------	----------------------------------	-------------------

Report To: Cory Divers Bill To: Pacific States
 Company: Pacific States Enviro
11555 Dublin Blvd
Dublin, CA 94568
 E-Mail: C.DIVERS@pacificstates.com
 Tele: 0925-803-4337 Fax: 0925-803-4334
 Project #: 605153 Project Name: PPR
 Project Location: Hullis St, Emeryville
 Sampler Signature: [Signature]

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED								
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other					
WalB-3-30	Emeryville	3/30/06	12:00	1	250ml	X													
				6	VCA	X													
				2	Amb	X					X								
				1	250ml	X					X								
				1	250ml	X					X								
				3	500 ml	X					X								
				1	500 ml	X													X

Relinquished By: Assect Patel Date: 3/30/06 Time: 3:15pm Received By: Marcus V/O
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____
 Relinquished By: _____ Date: _____ Time: _____ Received By: _____

ICE/1" PRESERVATION
 GOOD CONDITION APPROPRIATE
 HEAD SPACE ABSENT CONTAINERS
 DECHLORINATED IN LAB PERSERVED IN LAB

McC Campbell Analytical, Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0603646

ClientID: PSED

EDF: NO

Report to:

Cory Divers
 Pacific States Environmental
 11555 Dublin Blvd
 Dublin, CA 94568

TEL: 925-803-4333
 FAX: 925-803-4334
 ProjectNo: #605153; DPR
 PO:

Bill to:

Accounts Payable
 Pacific States Environmental
 11555 Dublin Blvd
 Dublin, CA 94568

Requested TAT: 5 days

Date Received: 03/30/2006

Date Printed: 03/30/2006

Sample ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests (See legend below)													
					1	2	3	4	5	6	7	8	9	10	11	12		
0603646-001	WarLB-3-30-06-1	Water	3/30/06 1:00:00 PM	<input type="checkbox"/>	E	B	H	A	F	C	C	D						


Test Legend:

1	218_5_W	2	CAM17(TMS_W	3	CN_TOTAL_W	4	G-MBTEX_W	5	HGPSA1_W
6	PH_W	7	SC_W	8	TPH(D)_W	9		10	
11		12							

Prepared by: Melissa Valles

Comments:

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

 McC Campbell Analytical, Inc.		110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mcccampbell.com E-mail: main@mcccampbell.com		
		Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06
		Client Contact: Cory Divers	Date Received: 03/30/06	
		Client P.O.:	Date Extracted: 03/30/06	
			Date Analyzed: 03/30/06	

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BIEX and MIBE*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0603646


Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	WarLB-3-30-06-I	W	200.f	ND	1.4	0.51	ND	ND	1	103

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+ The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

 McCampbell Analytical, Inc.		110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com	
		Client Project ID: #605153; DPR	Date Sampled: 03/30/06
		Client Contact: Cory Divers	Date Received: 03/30/06
		Client P.O.:	Date Analyzed: 03/31/06
Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568			

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0603646

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0603646-001D	WarLB-3-30-06-1	W	64,b	1	102

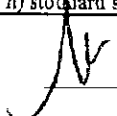
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

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

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

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) standard solvent/mineral spirit.

DHS Certification No. 1644


 Angela Rydelius, Lab Manager

 McC Campbell Analytical, Inc.	110 2nd Avenue South, #D7, Pacheco, CA 94553-3560 Telephone : 925-798-1620 Fax : 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com	
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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06
		Date Received: 03/30/06
	Client Contact: Cory Divers	Date Extracted: 03/30/06
	Client P.O.:	Date Analyzed: 03/30/06

Metals*

Lab ID	0603646-001B	Reporting Limit for DF=1; ND means not detected above the reporting limit
Client ID	WarLB-3-30-06-1	
Matrix	W	S
Extraction Type	TILC	W
		mg/kg
		µg/L

ICP-MS Metals, Concentration*

Analytical Method: E200.8	Extraction Method: E200.8	Work Order: 0603646
Dilution Factor	1	1
Antimony	0.81	NA
Arsenic	2.1	0.5
Beryllium	ND	0.5
Cadmium	ND	0.25
Chromium	15	0.5
Copper	6.2	0.5
Lead	1.3	0.5
Nickel	10	0.5
Selenium	0.96	0.5
Silver	ND	0.19
Thallium	ND	0.5
Zinc	21	2.0
%SS:	117	

Comments

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TILC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06
	Client Contact: Cory Divers	Date Received: 03/30/06
	Client P.O.:	Date Extracted: 03/30/06
		Date Analyzed: 03/30/06

Hexachrome by IC*

Analytical Method: E218.6 Work Order: 0603646


Lab ID	Client ID	Matrix	Hexachrome	DF
0603646-001E	WarLB-3-30-06-I	W	77	1


Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.2 µg/L
	S	NA

* water samples are reported in µg/L.

N/A means surrogate not applicable to this analysis; # surrogate diluted out of range or surrogate coelutes with another peak

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to matrix interference; p) see attached narrative


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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06	
	Client Contact: Cory Divers	Date Received: 03/30/06	
	Client P.O.:	Date Extracted: 03/30/06	
		Date Analyzed: 03/30/06	

Specific Conductivity*

Analytical Method: SM2510B Work Order: 0603646

Lab ID	Client ID	Matrix	Specific Conductivity	DF
0603646-001C	WarLB-3-30-06-I	W	837 @ 25°C	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 µmhos/cm @ 25°C
	S	NA

* Salinity (mg/L) = 0.64 * S C (µmhos/cm @ 25°C) per SSSA volume 5 part 3.



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	Client Contact: Cory Divers	Date Received: 03/30/06
	Client P.O.:	Date Extracted: 03/30/06
		Date Analyzed: 03/30/06

pH*

Analytical Method: SM4500H+B


Work Order: 0603646

Lab ID	Client ID	Matrix	pH
0603646-001C	WarLB-3-30-06-1	W	7.30 @ 14.8°C

Method Accuracy and Reporting Units	W	±0.05, pH units @ °C
	S	NA

DHS Certification No. 1644

Angela Rydelius Angela Rydelius, Lab Manager

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR		Date Sampled: 03/30/06
			Date Received: 03/30/06
	Client Contact: Cory Divers		Date Extracted: 03/30/06
	Client P.O.:		Date Analyzed: 03/30/06

Cyanide, Total*

Analytical Method: E335.3 / Kelada-01


Work Order: 0603646

Lab ID	Client ID	Matrix	Total Cyanide	DF
0603646-001H	Warl B-3-30-06-I	W	ND	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	2.0 µg/L
	S	NA

* water samples are reported in µg/L; soil/sludge/solid samples in mg/kg; wipe samples in µg/wipe.
 ^ All water samples are screened for sulfide interference prior to analysis and treated to remove sulfide if it is present. All soil samples are treated to remove sulfide, nitrate and nitrite interference prior to analysis.
 i) liquid sample contains greater than ~1 vol. % sediment; j) reporting limit raised due to high sediment content/matrix interference; m) sample treated to remove interfering sulfide per E335 4; n) sample treated to remove interfering nitrate and nitrite per E335 4; p) see attached narrative

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06
		Date Received: 03/30/06
	Client Contact: Cory Divers	Date Extracted: 03/30/06
	Client P.O.:	Date Analyzed: 03/31/06

Mercury by CVA*

Extraction method: E1631 Analytical methods: E1631 Work Order: 0603646

Lab ID	Client ID	Matrix	Extraction	Mercury	DF	% SS
0603646-001F	WarLB-3-30-06-I	W	TILC	15	1	N/A
0603646-001G	WarLB-3-30-06-I/Blank	W	TILC	ND	1	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TILC	0.2	ng/L
	S	TILC	NA	mg/kg

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TILC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

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 Angela Rydelius, Lab Manager

0603645

RUSH

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH

24 HR

48 HR

72 HR

5 DAY

EDF Required? Coeff (Normal) No Write On (DW) No

Analysis Request

Other

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX						METHOD PRESERVED		BTEX & TPH as Gas (602/8020 + 8015)/M/TBE	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (41 E.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB'S ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals (Zinc 2.009/L)	LUFT 5 Metals	Lead (7240/7421/239-2/G010)	RCI	Other								
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃																Other	pH	Electrical Conductivity	TPH Diesel 8015 Modified	Hardness	Chromium Hexavalent 218	Methyl Total 1631	Cyanide Total 335	
World-B-3-30-06-E	Emeryville	3/30/06	12:30	1	250 mL	X					X																				X						
	Emeryville			1	250 mL	X					X																				X						
				6	VQA	X						X		X																							
				2	Amb	X					X																										
				1	250 mL	X					X																										
				1	250 mL	X					X													X													
				1	250 mL	X					X													X													
				3	500 mL	X					X																										
				1	500 mL	X							X																								

Relinquished By: Ameet Patel

Date: 3/30/06

Time: 3:15 PM

Received By: [Signature]

Relinquished By:

Date:

Time:

Received By:

Relinquished By:

Date:

Time:

Received By:

ICE/✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
DECHLORINATED IN LAB ✓
PRESERVATION APPROPRIATE ✓
CONTAINERS PRESERVED IN LAB ✓
VOCS ✓ O&G ✓ METALS ✓ OTHER ✓

McC Campbell Analytical, Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0603645

ClientID: PSED

EDF: NO

Report to:

Cory Divers
 Pacific States Environmental
 11555 Dublin Blvd
 Dublin, CA 94568

TEL: 925-803-4333
 FAX: 925-803-4334
 ProjectNo: #605153; DPR
 PO:

Bill to:

Accounts Payable
 Pacific States Environmental
 11555 Dublin Blvd
 Dublin, CA 94568

Requested TAT: 1 day

Date Received: 03/30/2006

Date Printed: 03/30/2006

Sample ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0603645-001	WorLB-3-30-06-E	Water	3/30/06 12:30:00	<input type="checkbox"/>	E	F	G	A	E	H	D	E	D	B	C	

Test Legend:

1	218_6_W	2	CAM17(T)MS_W	3	CN_TOTAL_W	4	G-MBTEX_W	5	HARDMS DISS
6	HGPSA1_W	7	PH_W	8	PRDISSOLVED	9	SC_W	10	TPH(D)_W
11	TURBIDITY_W	12							

Prepared by: Maria Venegas

Comments: 24hr Rush

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

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06
		Date Received: 03/30/06
	Client Contact: Cory Divers	Date Extracted: 03/30/06
	Client P O.:	Date Analyzed: 03/30/06

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0603645

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	WorLB-3-30-06-E	W	ND	ND	ND	ND	ND	ND	1	111

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


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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas) m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

 McC Campbell Analytical, Inc. Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06
	Client Contact: Cory Divers	Date Received: 03/30/06
	Client P.O.:	Date Extracted: 03/30/06
		Date Analyzed: 03/30/06

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C Analytical methods: SW8015C Work Order: 0603645

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0603645-001B	WorLB-3-30-06-E	W	ND	1	101

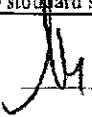
Reporting Limit for DF=1; ND means not detected at or above the reporting limit	W	50	µg/L
	S	NA	NA

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) standard solvent/mineral spirit.

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06
		Date Received: 03/30/06
	Client Contact: Cory Divers	Date Extracted: 03/30/06
	Client P O :	Date Analyzed: 03/30/06

Hexachrome by IC*

Analytical Method: E218.6

Work Order: 0603645

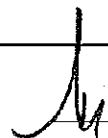
Lab ID	Client ID	Matrix	Hexachrome	DF
0603645-001E	WorLB-3-30-06-E	W	ND	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.2 µg/L
	S	NA


* water samples are reported in µg/L.

N/A means surrogate not applicable to this analysis; # surrogate diluted out of range or surrogate coelutes with another peak.

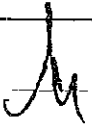
h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol % sediment; j) sample diluted due to matrix interference; p) see attached narrative.




Angela Rydelius, Lab Manager

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR		Date Sampled: 03/30/06
	Client Contact: Cory Divers		Date Received: 03/30/06
	Client P.O :		Date Extracted: 03/30/06
			Date Analyzed: 03/30/06
pH*			
Analytical Method: SM4500H+B			Work Order: 0603645
Lab ID	Client ID	Matrix	pH
0603645-001D	WorLB-3-30-06-E	W	8.09 @ 17.5°C
Method Accuracy and Reporting Units		W	±0.05, pH units @ °C
		S	NA

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR		Date Sampled: 03/30/06
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	Client P.O.:		Date Analyzed: 03/30/06

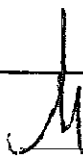
Specific Conductivity*

Analytical Method: SM2510B Work Order: 0603645

Lab ID	Client ID	Matrix	Specific Conductivity	DF
0603645-001D	WorLB-3-30-06-E	W	852 @ 25 °C	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 µmhos/cm @ 25°C
	S	NA

* Salinity (mg/L) = 0.64 * S.C. (µmhos/cm @ 25°C) per SSSA volume 5 part 3


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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06
		Date Received: 03/30/06
	Client Contact: Cory Divers	Date Extracted: 03/30/06
	Client P.O.:	Date Analyzed: 03/30/06

Turbidity

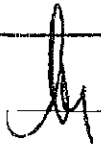
Analytical Method: SM2130B

Work Order: 0603645

Lab ID	Client ID	Matrix	Turbidity	DF
0603645-001C	WorLB-3-30-06-E	W	4.10	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.1 NTU
	S	NA

a) presence of debris / coarse sediment.

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06
		Date Received: 03/30/06
	Client Contact: Cory Divers	Date Extracted: 03/30/06
	Client P.O.:	Date Analyzed: 03/30/06

Cyanide, Total*

Analytical Method: E335.3 / Kelada-01

Work Order: 0603645

Lab ID	Client ID	Matrix	Total Cyanide	DF
0603645-001G	WorLB-3-30-06-E	W	ND	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit

W

2.0 µg/L


S

NA

* water samples are reported in µg/L; soil/sludge/solid samples in mg/kg; wipe samples in µg/wipe.

^ All water samples are screened for sulfide interference prior to analysis and treated to remove sulfide if it is present. All soil samples are treated to remove sulfide, nitrate and nitrite interference prior to analysis.

i) liquid sample contains greater than ~1 vol. % sediment; j) reporting limit raised due to high sediment content/matrix interference; m) sample treated to remove interfering sulfide per E335 4; n) sample treated to remove interfering nitrate and nitrite per E335 4; p) see attached narrative

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06	
		Date Received: 03/30/06	
	Client Contact: Cory Divers	Date Extracted: 03/30/06	
	Client P.O.:	Date Analyzed: 03/31/06	

Metals*				
Lab ID	0603645-001F		Reporting Limit for DF = 1; ND means not detected above the reporting limit	
Client ID	WorLB-3-30-06-E			
Matrix	W			
Extraction Type	ITLC			
			S	W
			mg/kg	µg/L

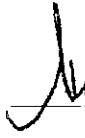
ICP-MS Metals, Concentration*						
Analytical Method: E200.8		Extraction Method: E200.8			Work Order: 0603645	
Dilution Factor	1				1	1
Antimony	1.3				NA	0.5
Arsenic	10				NA	0.5
Beryllium	ND				NA	0.5
Cadmium	ND				NA	0.25
Chromium	0.72				NA	0.5
Copper	52				NA	0.5
Lead	9.4				NA	0.5
Nickel	6.5				NA	0.5
Selenium	0.97				NA	0.5
Silver	ND				NA	0.19
Thallium	ND				NA	0.5
Zinc	86				NA	2.0
%SS:	120					


Comments

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument

i) aqueous sample containing greater than -1 vol % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for ITLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

 Angela Rydelius, Lab Manager

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 03/30/06	
		Date Received: 03/30/06	
	Client Contact: Cory Divers	Date Extracted: 03/30/06	
	Client P.O.:	Date Analyzed: 03/30/06	

Hardness*

Extraction method: E200.8 Analytical methods: SM12340B Work Order: 0603645


Lab ID	Client ID	Matrix	Extraction	Hardness	DF	% SS
0603645-001E	WorLB-3-30-06-E	W	DISS.	260	10	N/A


Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	DISS.	10	mg/L
	S	TTLIC	NA	mg/kg

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

j) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLIC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.


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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR		Date Sampled: 03/30/06
	Client Contact: Cory Divers		Date Received: 03/30/06
	Client P. O.:		Date Extracted: 03/30/06
			Date Analyzed: 03/31/06

Mercury by CVAF*

Extraction method: E1631 Analytical methods: E1631 Work Order: 0603645

Lab ID	Client ID	Matrix	Extraction	Mercury	DF	% SS
0603645-001H	WorLB-3-30-06-E	W	TILC	3.5	1	N/A
0603645-001I	WorLB-3-30-06-E/Blank	W	TILC	ND	1	N/A


Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TILC	0.2	ng/L
	S	TILC	NA	mg/kg

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TILC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No. 1644


 Angela Rydelius, Lab Manager

0604135 PSET

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Coelt (Normal) No Write On (DW) No

Report To: AMEET HOTEL

Bill To: PACIFIC STORES

Company: PACIFIC STORES ENV.

Tele: (925) 803-4333

E-Mail: APATEL@PACIFICSTORES.NET

Project #: 605153

Fax: (925) 803-4334

Project Location: EMERYVILLE

Project Name: OPR

Sampler Signature: [Signature]

Analysis Request

Other Comments

BTX & TPH as Gas (602/8020 + 8015) <input type="checkbox"/>	TPH as Diesel (8015) <input type="checkbox"/>	Total Petroleum Oil & Grease (5520 E&F/B&F) <input type="checkbox"/>	Total Petroleum Hydrocarbons (418.1) <input type="checkbox"/>	EPA 601 / 8010 <input type="checkbox"/>	BTX ONLY (EPA 602 / 8020) <input type="checkbox"/>	EPA 608 / 8080 <input type="checkbox"/>	EPA 608 / 8080 PCB's ONLY <input type="checkbox"/>	EPA 624 / 8240 / 8260 <input type="checkbox"/>	EPA 625 / 8270 <input type="checkbox"/>	PAH's / PNA's by EPA 625 / 8270 / 8310 <input type="checkbox"/>	Trace Metals (EPA 624 / 8240) <input checked="" type="checkbox"/>	LUFT 5 Metals <input type="checkbox"/>	Lead (7240/7421/239.2/6010) <input type="checkbox"/>	RCI <input type="checkbox"/>	Other <input type="checkbox"/>	Comments

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX				METHOD PRESERVED							
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other			
WARLB47a-E	EFFLUENT	4/7/06		2	VMS	X							X				
				1	250ml	X							X				
				1	1L	X							X				
				1	250ml	X							X				
				3	500ml	X							X				
				1	500ml	X							X				
				1	250ml	X							X				X
				1	250ml	X							X				X

Relinquished By: <u>[Signature]</u>	Date: <u>4/7/06</u>	Time: <u>2:15</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

* Ni, Se, Ag, Tl, Zn, Sb, As, Ba, Cd, Cr, Cu, Pb

ICE/ GOOD CONDITION PRESERVATION APPROPRIATE CONTAINERS DECHLORINATED IN LAB

VOAS O&G METALS OTHER

PERSERVED IN LAB

RUSH

0004134

RUSH

MCCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD
TURN AROUND TIME

RUSH 24 HR 48 HR 72 HR 5 DAY

EDF Required? Coelt (Normal) No Write On (OW) No

Report To: ADTEL HOTEL

Bill To: PACIFIC STATES

Company: PACIFIC STATES ENV.

Tele: () 925-803-4333

E-Mail: ADTEL@PACIFICSTATES.NET

Project #: 605153

Fax: () 925-803-4334

Project Location: EMERYVILLE

Project Name: DPR

Sampler Signature: [Signature]

Analysis Request

Analysis Request	Other	Comments
BTEX & TPH as Gas (602/8020 + 8015)MTBE		
TPH as Diesel (8015)		
Total Petroleum Oil & Grease (5520 E&F/B&F)		
Total Petroleum Hydrocarbons (418.1)		
EPA 601 / 8010		
BTEX ONLY (EPA 602 / 8020)		
EPA 608 / 8080		
EPA 608 / 8080 PCB's ONLY		
EPA 624 / 8240 / 8260		
EPA 625 / 8270		
PAH's / PNA's by EPA 625 / 8270 / 8310		
CAM-17 Metals		
LUFT 5 Metals		
Lead (7240/721/239.2/6010)		
RCI		
	<input checked="" type="checkbox"/>	605
	<input checked="" type="checkbox"/>	100's P2606
	<input checked="" type="checkbox"/>	TANK, PIPE, ETBE, TBA
	<input checked="" type="checkbox"/>	ETHANOL, METHANOL
	<input checked="" type="checkbox"/>	SPEC'S P2700
	<input checked="" type="checkbox"/>	PAH'S
	<input checked="" type="checkbox"/>	FISH TOXICITY

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED					
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other		
WAELB-4-7-06-E	EFFLUENT	4-7-06		2	VQA	X						X				
				3	VQA	X						X				
				1	LMER	X					X					
				1	LMER	X					X					
				1	LMER	X					X					

Relinquished By: <u>[Signature]</u>	Date: <u>4/7/06</u>	Time: <u>21:15</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/T _____ PRESERVATION _____
 GOOD CONDITION _____ APPROPRIATE _____
 HEAD SPACE ABSENT _____ CONTAINERS _____
 DECHLORINATED IN LAB _____ PERSERVED IN LAB _____



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

WorkOrder: 0604135

ClientID: PSED

EDF: NO

Report to:
 Ameer Patel
 Pacific States Environmental
 11555 Dublin Blvd
 Dublin, CA 94568

TEL: 925-803-4333
 FAX: 925-803-4334
 ProjectNo: #605153; DPR
 PO:

Bill to:
 Accounts Payable
 Pacific States Environmental
 11555 Dublin Blvd
 Dublin, CA 94568

Requested TAT: 5 days
 Date Received: 04/07/2006
 Date Printed: 04/07/2006

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)																	
					1	2	3	4	5	6	7	8	9	10	11	12						
0604135-001	BLANK-1	Water	04/07/2006	<input type="checkbox"/>																		
0604135-001	BLANK-2	Water	04/07/2006	<input type="checkbox"/>																		
0604135-001	WALRB-4/7/06-E	Water	04/07/2006	<input type="checkbox"/>	E																	
0604135-001	WARLB-4-7-06-E	Water	04/07/2006	<input type="checkbox"/>		M	L	I	N													K

Test Legend:

1	218_6_W	2	8270D_W	3	9-OXYS_W	4	CN_TOTAL_W	5	FISHEFF_W
6	G-MBTEX_W	7	HARDMS DISS	8	HGPSA1_W	9	METALSMS_W	10	PH_W
11	PRODISSOLVED	12	SC_W						

Prepared by: Kathleen Owen

Comments:

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

McC Campbell Analytical, Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0604135

ClientID: PSED

EDF: NO

Report to:

Ameer Patel
 Pacific States Environmental
 11555 Dublin Blvd
 Dublin, CA 94568

TEL: 925-803-4333
 FAX: 925-803-4334
 ProjectNo: #605153; DPR
 PO:

Bill to:

Accounts Payable
 Pacific States Environmental
 11555 Dublin Blvd
 Dublin, CA 94568

Requested TAT: 5 days

Date Received: 04/07/2006

Date Printed: 04/07/2006

Sample ID	ClientSampleID	Matrix	Collection Date	Hold	Requested Tests (See legend below)															
					13	14	15	16	17	18	19	20	21	22	23	24				
0604135-001	BLANK-1	Water	04/07/2006	<input type="checkbox"/>																
0604135-001	BLANK-2	Water	04/07/2006	<input type="checkbox"/>																
0604135-001	WALRB-4/7/06-E	Water	04/07/2006	<input type="checkbox"/>	D															
0604135-001	WARLB-4-7-06-E	Water	04/07/2006	<input type="checkbox"/>		J														


Test Legend:

13	TPH(D)_W	14	TURBIDITY_W	15		16		17	
18		19		20		21		22	
23		24							

Prepared by: Kathleen Owen

Comments:

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

 McC Campbell Analytical, Inc.		110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone : 925-798-1620 Fax : 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com	
Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR		Date Sampled: 04/07/06
	Client Contact: Ameet Patel		Date Received: 04/07/06
	Client P.O.:		Date Extracted: 04/08/06
			Date Analyzed: 04/08/06

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

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0604135

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	WALRB-4/7/06-E	W	ND	ND	ND	ND	ND	ND	1	108

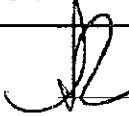
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg


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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.


DHS Certification No 1644

 Angela Rydelius, Lab Manager

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		Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568		Client Project ID: #605153; DPR Client Contact: Ameet Patel Client P O :	
Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*					
Extraction method: SW3510C		Analytical methods: SW8015C		Work Order: 0604135	
Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0604135-001D	WALRB-4/7/06-E	W	ND	1	92
Reporting Limit for DF =1; ND means not detected at or above the reporting limit		W	50	µg/L	
		S	NA	NA	
<p>* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / SILC / SPLP / TCLP extracts are reported in µg/L.</p> <p># cluttered chromatogram resulting in occluded surrogate and sample peaks, or; surrogate peak is on elevated baseline or; surrogate has been diminished by dilution of original extract</p> <p>+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.</p>					

DHS Certification No. 1644


 Angela Rydelius, Lab Manager

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568		Client Project ID: #605153; DPR		Date Sampled: 04/07/06	
		Client Contact: Ameet Patel		Date Received: 04/07/06	
		Client P.O.:		Date Extracted: 04/07/06	
				Date Analyzed: 04/07/06	
Oxygenated Volatile Organics + EDB and 1,2-DCA by P&I and GC/MS*					
Extraction Method: SW5030B		Analytical Method: SW8260B		Work Order: 0604135	
Lab ID	0604135-001L				Reporting Limit for DF =1
Client ID	WARLB-4-7-06-				
Matrix	E W				
DF	1				
				S	W
Compound	Concentration			ug/kg	ug/L
tert-Amyl methyl ether (TAME)	ND			NA	0.5
t-Butyl alcohol (TBA)	ND			NA	5.0
1,2-Dibromoethane (EDB)	ND			NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND			NA	0.5
Diisopropyl ether (DIPE)	ND			NA	0.5
Ethanol	ND			NA	50
Ethyl tert-butyl ether (ETBE)	ND			NA	0.5
Methanol	ND			NA	500
Methyl-t-butyl ether (MTBE)	ND			NA	0.5
Surrogate Recoveries (%)					
%SS1:	105				
Comments					
* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.					
ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis					
# surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference					
h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.					



McC Campbell Analytical, Inc.

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 Telephone : 925-798-1620 Fax : 925-798-1622
 Website: www.mccampbell.com E-mail: main@mccampbell.com

Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 04/07/06
		Date Received: 04/07/06
	Client Contact: Ameet Patel	Date Extracted: 04/07/06
	Client P O :	Date Analyzed: 04/10/06

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

Extraction Method: SW3510C

Analytical Method: SW8270D

Work Order: 0604135

Lab ID	0604135-001M
Client ID	WARLB-4-7-06-E
Matrix	Water

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

Surrogate Recoveries (%)

%SS1:	111	%SS2:	115
%SS3:	103	%SS4:	87
%SS5:	116	%SS6:	90

Comments:


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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol % sediment; j) sample diluted due to high organic content/matrix interference

Angela Rydelius, Lab Manager

 McC Campbell Analytical, Inc.		110 2nd Avenue South, #D7, Pacheco, CA 94533-5560 Telephone : 925-798-1620 Fax : 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com	
		Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR Client Contact: Ameet Patel Client P.O.:

Cyanide, Total*

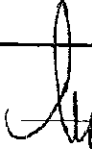
Analytical Method: E335.3 / Kelada-01 Work Order: 0604135


Lab ID	Client ID	Matrix	Total Cyanide	DF
0604135-0011	WARLB-4-7-06-E	W	ND	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	2.0 µg/L
	S	NA

* water samples are reported in µg/L; soil/sludge/solid samples in mg/kg; wipe samples in µg/wipe.
 ^ All water samples are screened for sulfide interference prior to analysis and treated to remove sulfide if it is present. All soil samples are treated to remove sulfide, nitrate and nitrite interference prior to analysis.

f) liquid sample contains greater than ~1 vol. % sediment; j) reporting limit raised due to high sediment content/matrix interference; m) sample treated to remove interfering sulfide per E335 4; n) sample treated to remove interfering nitrate and nitrite per E335 4; p) see attached narrative


 Angela Rydelius, Lab Manager

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 04/07/06	
		Date Received: 04/07/06	
	Client Contact: Armeet Patel	Date Extracted: 04/07/06	
	Client P O :	Date Analyzed: 04/08/06	

Hexachrome by IC*

Analytical Method: E218.6

Work Order: 0604135


Lab ID	Client ID	Matrix	Hexachrome	DF
0604135-001E	WALRB-4/7/06-E	W	ND	1


Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.2 µg/L
	S	NA


* water samples are reported in µg/L.

N/A means surrogate not applicable to this analysis; # surrogate diluted out of range or surrogate coelutes with another peak

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to matrix interference; p) see attached narrative

 Angela Rydelius, Lab Manager

 McC Campbell Analytical, Inc.		110 2nd Avenue South, #D7, Pacheco, CA 94553-5360 Telephone : 925-798-1620 Fax : 925-798-1622 Website: www.mcccampbell.com E-mail: main@mcccampbell.com			
Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568		Client Project ID: #605153; DPR		Date Sampled: 04/07/06 Date Received: 04/07/06 Date Extracted 04/07/06 Date Analyzed 04/10/06	
		Client Contact: Ameet Patel		Date Analyzed 04/10/06	
		Client P.O.:			
Metals*					
Lab ID	0604135-001B				Reporting Limit for DF = 1: ND means not detected above the reporting limit
Client ID	WALRB-4/7/06- E				
Matrix	W				
Extraction Type	TILC				
				S	W
				mg/kg	µg/L
ICP-MS Metals, Concentration*					
Analytical Method: E200.8		Extraction Method: E200.8		Work Order: 0604135	
Dilution Factor	1			1	1
Antimony	1.3			NA	0.5
Arsenic	7.5			NA	0.5
Beryllium	ND			NA	0.5
Cadmium	ND			NA	0.25
Chromium	7.6			NA	0.5
Copper	8.0			NA	0.5
Lead	2.4			NA	0.5
Nickel	10			NA	0.5
Seelenium	1.1			NA	0.5
Silver	ND			NA	0.19
Thallium	ND			NA	0.5
Zinc	21			NA	5.0
%SS:	117				
Comments					
*water samples are reported in ug/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.					
# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument					
i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TILC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.					

 McC Campbell Analytical, Inc. Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 04/07/06
	Client Contact: Ameet Patel	Date Received: 04/07/06
	Client P.O.:	Date Extracted: 04/07/06
		Date Analyzed: 04/10/06

Mercury by CVAF*

Extraction method: E1631 Analytical methods: E1631 Work Order: 0604135

Lab ID	Client ID	Matrix	Extraction	Mercury	DF	% SS
0604135-001F	WALRB-4/7/06-E	W	ITLC	2.8	1	N/A
0604135-001G	BLANK-1	W	ITLC	ND	1	N/A
0604135-001H	BLANK-2	W	ITLC	ND	1	N/A

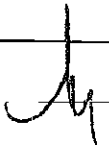
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	ITLC	0.5	ng/L
	S	ITLC	NA	mg/kg

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for ITLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative

DHS Certification No 1644

 Angela Rydelius, Lab Manager



McC Campbell Analytical, Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94533-5560
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Website: www.mccampbell.com E-mail: main@mccampbell.com

Pacific States Environmental

11555 Dublin Blvd

Dublin, CA 94568

Client Project ID: #605153; DPR

Date Sampled: 04/07/06

Date Received: 04/07/06

Client Contact: Ameet Patel

Date Extracted: 04/07/06

Client P.O.:

Date Analyzed: 04/07/06

Turbidity

Analytical Method: SM2130B


Work Order: 0604135

Lab ID	Client ID	Matrix	Turbidity	DF
0604135-001J	WARLB-4-7-06-E	W	29.0	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.1 NTU
	S	NA

a) presence of debris / coarse sediment

Angela Rydelius, Lab Manager

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568		Client Project ID: #605153; DPR	Date Sampled: 04/07/06
			Date Received: 04/07/06
		Client Contact: Ameet Patel	Date Extracted: 04/07/06
		Client P O :	Date Analyzed: 04/07/06


pH*

Analytical Method: SM4500H+B Work Order: 0604135

Lab ID	Client ID	Matrix	pH
0604135-001C	WALRB-4/7/06-E	W	8.10 @ 15.6°C

Method Accuracy and Reporting Units	W	±0.05, pH units @ °C
	S	NA

DHS Certification No. 1644

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR	Date Sampled: 04/07/06
		Date Received: 04/07/06
	Client Contact: Ameet Patel	Date Extracted: 04/07/06
	Client P.O.:	Date Analyzed: 04/10/06

Hardness*

Extraction method: E200.8

Analytical methods: SM2340B

Work Order: 0604135

Lab ID	Client ID	Matrix	Extraction	Hardness	DF	% SS
0604135-001K	WARLB-4-7-06-E	W	DISS	290	100	N/A

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	DISS	1.0	mg/L
	S	TTLIC	NA	mg/kg

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument

i) aqueous sample containing greater than ~1 vol % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLIC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative

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Pacific States Environmental
 11555 Dublin Blvd
 Dublin, CA 94568

Client Project ID: #605153; DPR
 Client Contact: Ameet Patel
 Client P.O.:

Date Sampled: 04/07/06
 Date Received: 04/07/06
 Date Extracted: 04/10/06-04/14/06
 Date Analyzed: 04/12/06-04/16/06

CA Title 22 Acute Fish Bioassay Screen Test for Hazardous Waste

Extraction Method: CA DFG (Polinski & Miller)

Analytical Method: CA DFG (Polinski & Miller)

Work Order: 0604135

Lab ID	0604135-001N	Species	Pimephales Promelas	Avg. Length	3.563
Client ID	WARLB-4-7-06-E	Common Name	Fathead Minnows	Avg. Weight	0.4158
Matrix	Water			Max Weight	0.465
Control Water	Soft Synthetic Water			Min Weight	0.376


Concentration	Survival		Dissolved O2 (mg/L)		pH		Temperature (°C)		Comments
	A	B	A	B	A	B	A	B	
Control	10	10	8.91	8.78	7.61	7.60	20.0	20.1	Analyst: SC
250mg/L	10	10	8.33	8.37	7.34	7.35	20.7	20.8	
500mg/L	10	10	8.40	8.47	7.36	7.37	20.8	20.8	Date: 4/12/2006
750mg/L	10	10	8.38	8.49	7.26	7.27	20.8	20.9	Time: 4:30 PM
Control	10	10	8.31	8.26	7.11	7.10	20.6	21.0	Analyst: CK
250mg/L	10	10	8.10	8.25	7.06	7.07	20.8	20.5	
500mg/L	10	10	8.29	8.26	7.18	7.17	20.6	20.8	Date: 4/13/2006
750mg/L	10	10	8.03	8.17	7.03	7.04	21.0	20.8	Time: 4:30 PM
Control	10	10	7.15	7.17	7.20	7.19	20.6	20.4	Analyst: SC
250mg/L	10	10	7.93	7.94	6.84	6.85	20.8	20.9	
500mg/L	10	10	7.79	7.66	6.88	6.87	20.9	20.8	Date: 4/14/2006
750mg/L	10	10	7.58	7.64	6.83	6.84	20.9	21.0	Time: 4:30 PM
Control	10	10	6.56	6.58	7.22	7.21	20.4	20.5	Analyst: SC
250mg/L	10	10	6.99	6.97	6.97	6.98	20.4	20.5	
500mg/L	10	10	6.19	6.10	7.00	7.01	20.5	20.6	Date: 4/15/2006
750mg/L	10	10	5.65	5.60	7.06	7.05	20.4	20.5	Time: 4:30 PM
Control	10	10	6.10	6.12	7.09	7.08	19.4	19.3	Analyst: SC
250mg/L	10	10	5.63	5.67	7.14	7.13	19.4	19.5	
500mg/L	10	10	5.65	5.70	7.20	7.19	19.5	19.4	Date: 4/16/2006
750mg/L	10	10	4.29	4.30	7.16	7.17	19.4	19.5	Time: 4:30 PM


	Initial		Final	
	Control	750 mg/L	Control	750 mg/L
Hardness (mg/L as CaCO3)	39.95	40.49	38.63	45.27
Alkalinity (mg/L as CaCO3)	33.36	38.92	46.24	41.68
Conductivity (uS/cm)	233.3	237.4	178.2	177.5

Result: This sample passed the Hazardous Waste toxicity test since the final mortality rate in the 750mg/L sample after 96hrs. is <40%

96 LC50: N/A
 95% Upper Confident Limit: N/A

LC50 Method: N/A
 95% Lower Confident Limit: N/A


 Angela Rydelius, Lab Manager

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		Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #605153; DPR Client Contact: Ameet Patel Client P.O :

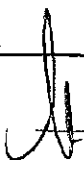
Specific Conductivity*

Analytical Method: SM2510B Work Order: 0604135

Lab ID	Client ID	Matrix	Specific Conductivity	DF
0604135-001C	WALRB-4/7/06-E	W	1050 @ 25 °C	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 µmhos/cm @ 25°C	
	S	NA	

* Salinity (mg/L) = 0.64 * S C (µmhos/cm @ 25°C) per SSSA volume 5 part 3.


 Angela Rydelius, Lab Manager

0604134 PSETD

RUSH

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
 PACHECO, CA 94553-5560
 Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD
TURN AROUND TIME

EDF Required? Coelt (Normal) No RUSH 24 HR 48 HR 72 HR 5 DAY
 Write On (DW) No

Report To: Amelr Hotel Bill To: PACIFIC STORES
 Company: PACIFIC STORES

Tele: (925) 803-4353 E-Mail: AMHOTEL@PACIFICSTORES.NET
 Project #: 605153 Fax: (925) 803-7334

Project Location: EMERYVILLE Project Name: DPR
 Sampler Signature: [Signature]

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED						
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other			
WARLB-4-7-06-#	INFLUENT	4-7-06		2	VOA	X						X					
				3	VOA	X						X					
				1	LITEL	X					X						
				1	LITEL	X					X						

Analysis Request												Other	Comments				
BTEX & TPH as Gas (602/8020 + 8015) W/TBE																	
TPH as Diesel (8015)																	
Total Petroleum Oil & Grease (5520 E&F/R&F)																	
Total Petroleum Hydrocarbons (418.1)																	
EPA 601 / 8010																	
BTEX ONLY (EPA 602 / 8020)																	
EPA 608 / 8080																	
EPA 608 / 8080 PCB'S ONLY																	
EPA 624 / 8240 / 8260																	
EPA 625 / 8270																	
PAH's / PNA's by EPA 625 / 8270 / 8310																	
CAM-17 Metals																	
LUFT 5 Metals																	
Lead (7240/7421/239.2/6010)																	
RCI																	
													X	EDS			
													X	VOC'S 82006			
													X	TAME, DIPE, ETBE, TBA			
													X	ETHANOL, METHANOL			
													X	SPEC'S 8270c			
													X	PAH'S			

Relinquished By: <u>[Signature]</u>	Date: <u>4/7/06</u>	Time: <u>21:15</u>	Received By: <u>[Signature]</u>
Relinquished By:	Date:	Time:	Received By:
Relinquished By:	Date:	Time:	Received By:

ICE/✓ GOOD CONDITION ✓ PRESERVATION APPROPRIATE ✓
 HEAD SPACE ABSENT ✓ CONTAINERS PRESERVED IN LAB ✓
 DECHLORINATED IN LAB ✓

McC Campbell Analytical, Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0604134

ClientID: PSED

EDF: NO

Report to:

Ameer Patel
 Pacific States Environmental
 11555 Dublin Blvd
 Dublin, CA 94568

TEL: 925-803-4333
 FAX: 925-803-4334
 ProjectNo: #6055153; DPR
 PO:

Bill to:

Accounts Payable
 Pacific States Environmental
 11555 Dublin Blvd
 Dublin, CA 94568

Requested TAT: 1 day

Date Received: 04/07/2006

Date Printed: 04/07/2006

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
0604134-001	BLANK-1	Water	04/07/2006	<input type="checkbox"/>							G						
0604134-001	BLANK-2	Water	04/07/2006	<input type="checkbox"/>							H						
0604134-001	WARLB-4-7-06-I	Water	04/07/2006	<input type="checkbox"/>	E	K	J	I	A	F	B	C	C	D			

Test Legend:

1	218_6_W	2	8270D_W	3	9-OXYS_W	4	CN_TOTAL_W	5	G-MBTEX_W
6	HGPSA1_W	7	METALSMS_W	8	PH_W	9	SC_W	10	TPH(D)_W
11		12							

Prepared by: Kathleen Owen

Comments:

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

Apr 11 2006 10:31AM MCCAMPBELL ANALYTICAL 9257984612 P. 19

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #6055153; DPR Client Contact: Ameet Patel Client P.O :	Date Sampled: 04/07/06 Date Received: 04/07/06 Date Extracted: 04/08/06 Date Analyzed: 04/08/06
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Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MIBE*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0604134

Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	WARLB-4-7-06-1	W	70,a	ND	0.63	ND	ND	ND	1	105

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

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

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas) m) no recognizable pattern; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.

DHS Certification No. 1644

Angela Rydelius, Lab Manager



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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #6055153; DPR	Date Sampled: 04/07/06
	Client Contact: Armeet Patel	Date Received: 04/07/06
	Client P O :	Date Extracted: 04/07/06
		Date Analyzed: 04/07/06

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3510C

Analytical methods: SW8015C

Work Order: 0604134

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0604134-001D	WARLB-4-7-06-1	W	ND	1	89

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

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

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

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; k) kerosene/kerosene range/jet fuel range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #6055153; DPR	Date Sampled: 04/07/06
		Date Received: 04/07/06
	Client Contact: Ameet Patel	Date Extracted: 04/07/06
	Client P O.:	Date Analyzed: 04/07/06

Oxygenated Volatile Organics + EDB and 1,2-DCA by P&T and GC/MS*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0604134

Lab ID	0604134-001J				Reporting Limit for DF =1	
Client ID	WARLB-4-7-06-I					
Matrix	W					
DF	1					

Compound	Concentration			ug/kg	ug/L
tert-Amyl methyl ether (TAME)	ND			NA	0.5
t-Butyl alcohol (TBA)	12			NA	5.0
1,2-Dibromoethane (EDB)	ND			NA	0.5
1,2-Dichloroethane (1,2-DCA)	0.62			NA	0.5
Diisopropyl ether (DIPE)	0.58			NA	0.5
Ethanol	ND			NA	5.0
Ethyl tert-butyl ether (ETBE)	ND			NA	0.5
Methanol	ND			NA	500
Methyl-t-butyl ether (MTBE)	ND			NA	0.5


Surrogate Recoveries (%)					
%SS1:	103				
Comments					

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.


 Angela Rydelius, Lab Manager


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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #6055153; DPR	Date Sampled: 04/07/06
		Date Received: 04/07/06
	Client Contact: Ameet Patel	Date Extracted: 04/07/06
	Client P.O.:	Date Analyzed: 04/10/06

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

Extraction Method: SW3510C

Analytical Method: SW8270D

Work Order: 0604134

Lab ID	0604134-001K
Client ID	WARLB-4-7-06-1
Matrix	Water

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

Surrogate Recoveries (%)

%SS1:	108	%SS2:	115
%SS3:	100	%SS4:	81
%SS5:	117	%SS6:	97

Comments:

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

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

#) surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol % sediment; j) sample diluted due to high organic content/matrix interference

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		Telephone : 925-798-1620 Fax : 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #6055153; DPR	Date Sampled: 04/07/06
		Date Received: 04/07/06
	Client Contact: Ameet Patel	Date Extracted: 04/10/06
	Client P.O.:	Date Analyzed: 04/10/06


Cyanide, Total*


Analytical Method: E335.3 / Kelada-01 Work Order: 0604134

Lab ID	Client ID	Matrix	Total Cyanide	DF
0604134-0011	WARLB-4-7-06-I	W	ND	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	20 µg/L
	S	NA

* water samples are reported in ug/L; soil/sludge/solid samples in mg/kg; wipe samples in µg/wipe.
 ^ All water samples are screened for sulfide interference prior to analysis and treated to remove sulfide if it is present. All soil samples are treated to remove sulfide, nitrate and nitrite interference prior to analysis.
 i) liquid sample contains greater than ~1 vol % sediment; j) reporting limit raised due to high sediment content/matrix interference; m) sample treated to remove interfering sulfide per E335 4; n) sample treated to remove interfering nitrate and nitrite per E335 4; p) see attached narrative

 Angela Rydelius, Lab Manager

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		Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #6055153; DPR Client Contact: Ameet Patel Client P O :

Hexachrome by IC*

Analytical Method: E218.6

Work Order: 0604134


Lab ID	Client ID	Matrix	Hexachrome	DF
0604134-001E	WARLB-4-7-06-I	W	15	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	0.2 µg/L
	S	NA

* water samples are reported in µg/L.

N/A means surrogate not applicable to this analysis; # surrogate diluted out of range or surrogate coelutes with another peak

h) a lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol % sediment; j) sample diluted due to matrix interference; p) see attached narrative.

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #6055153; DPR	Date Sampled: 04/07/06	
		Date Received: 04/07/06	
	Client Contact: Ameet Patel	Date Extracted: 04/07/06	
	Client P.O.:	Date Analyzed: 04/10/06	

Mercury by CVAE*

Extraction method: E1631 Analytical methods: E1631 Work Order: 0604134

Lab ID	Client ID	Matrix	Extraction	Mercury	DF	% SS
0604134-001F	WARLB-4-7-06-1	W	TTLC	16	1	N/A
0604134-001G	BLANK-1	W	TTLC	ND	1	N/A
0604134-001H	BLANK-2	W	TTLC	ND	1	N/A

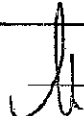
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TTLC	0.5	ng/L
	S	TTLC	NA	mg/kg

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.

DHS Certification No 1644

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #6055153; DPR	Date Sampled: 04/07/06
		Date Received: 04/07/06
	Client Contact: Armeet Patel	Date Extracted: 04/07/06
	Client P.O.:	Date Analyzed: 04/10/06

Metals*

Lab ID	0604134-001B		Reporting Limit for DF =1; ND means not detected above the reporting limit	
Client ID	WARLB-4-7-06-I			
Matrix	W		S	W
Extraction Type	TTLIC		mg/kg	µg/L

ICP-MS Metals, Concentration*

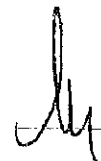
Analytical Method: E200.8	Extraction Method: E200.8	Work Order: 0604134
Dilution Factor	1	1
Antimony	0.70	NA 0.5
Arsenic	2.9	NA 0.5
Beryllium	ND	NA 0.5
Cadmium	ND	NA 0.25
Chromium	2.6	NA 0.5
Copper	7.0	NA 0.5
Lead	ND	NA 0.5
Nickel	5.5	NA 0.5
Selenium	0.75	NA 0.5
Silver	ND	NA 0.19
Thallium	ND	NA 0.5
Zinc	25	NA 5.0
%SS:	117	

Comments

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

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLIC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrogate recovery; n) results are reported on a dry weight basis; p) see attached narrative.


 Angela Rydelius, Lab Manager



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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #6055153; DPR	Date Sampled: 04/07/06
		Date Received: 04/07/06
	Client Contact: Ameet Patel	Date Extracted: 04/07/06
	Client P.O. :	Date Analyzed: 04/07/06

pH*

Analytical Method: SM4500H+B Work Order: 0604134

Lab ID	Client ID	Matrix	pH
0604134-001C	WARLB-4-7-06-J	W	7.30 @ 18.1°C

Method Accuracy and Reporting Units	W	±0.05, pH units @ °C
	S	NA

DHS Certification No. 1644

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Pacific States Environmental 11555 Dublin Blvd Dublin, CA 94568	Client Project ID: #6055153; DPR	Date Sampled: 04/07/06
		Date Received: 04/07/06
	Client Contact: Ameet Patel	Date Extracted: 04/07/06
	Client P.O.:	Date Analyzed: 04/07/06

Specific Conductivity*	
Analytical Method: SM2510B	Work Order: 0604134

Lab ID	Client ID	Matrix	Specific Conductivity	DF
0604134-001C	WARLB-4-7-06-1	W	1140 @ 25.0°C	1

Reporting Limit for DF = 1; ND means not detected at or above the reporting limit	W	10 µmhos/cm @ 25°C
	S	NA

* Salinity (mg/L) = 0.64 * S.C. (µmhos/cm @ 25°C) per SSSA volume 5 part 3.

 Angela Rydelius, Lab Manager