25864-F Business Center Drive Redlands, California 92374 909.335.6116 TEL 909.335.6120 FAX

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Alameda County Environmental Health

FIRST QUARTER – 2008 GROUNDWATER MONITORING REPORT FOR

OLSON URBAN HOUSING, LLC.

Former Impulse Motors 1210 Bockman Road San Lorenzo, CA Geotracker Global ID#: T06019771179 ACHCS Case #: R00002737

March 30, 2008 Project Number 040T.29215.69

Prepared by:

Jason Adelaars Staff Scientist

ERED GEO 00 KYLE FMERSON No. 1271 CERTIFIED ENLINEER AG Reviewed by: GEOLUGIST Kyle D. Emerson, CEG 1271 ALIFORNIA Senior Vice President

Date: March 30, 2008

QUARTERLY GROUNDWATER MONITORING REPORT

Address: Consulting Co./Contact Person: SECOR Project No.: Primary Agency/Regulatory ID No.: 1210 Bockman Road (Figure 1) SECOR/ Jason Adelaars and Kyle D. Emerson 040T.29215.69 ACHCS / Case No. RO0002737

WORK PERFORMED THIS QUARTER [First - 2008]:

- 1. Located, uncovered, extended, and reset three groundwater monitoring wells (MW-01, MW-02, MW-03).
- 2. Performed First Quarter 2008 groundwater monitoring and sampling.

WORK PROPOSED FOR NEXT QUARTER [Second - 2008]:

- 1. Perform Second Quarter 2008 groundwater monitoring, sampling, and reporting.
- 2. Submit First Quarter 2008 Report.

Current Phase of Project:	Monitoring	(Unit)
Frequency of Sampling:	Quarterly	(Quarterly, etc.)
Frequency of Monitoring:	Quarterly	(Monthly, etc.)
Are Liquid Phase Hydrocarbons Present	No	(Yes/No)
Bulk Soil Removed to Date:	500	(cubic yards)
Bulk Soil Removed This Quarter:	0	(cubic yards)
Approximate Depth to Groundwater	7.65 to 8.67	(Measured Feet)
Groundwater Gradient	Northwest	(Direction)
	0.005	(Magnitude)

DISCUSSION:

On March 17, 2008, SECOR personnel gauged groundwater monitoring wells at the site (Figure 2). The depth to water ranged between 7.65 feet in MW-02 to 8.67 feet in MW-03, as presented in Table 1. Groundwater elevations ranged between 11.91 feet to 12.06 feet above mean sea level (AMSL). Groundwater flows to the north by northwest at a hydraulic gradient of approximately 0.005 (Figure 3). Groundwater samples were collected from the wells in accordance with the attached purging and sampling procedures. Groundwater samples were collected and analyzed for Total Petroleum Hydrocarbons as gasoline (TPHg), Total Petroleum Hydrocarbons as diesel (TPHd), and Volatile Organic Compounds (VOCs) including the fuel oxygenates methyl tert-butyl ether (MTBE), tert-Butyl Alcohol (TBA), Ethyl tert-Butyl Ether (ETBE), Di-isopropyl Ether (DIPE), and tert-amyl methyl ether (TAME). Analytical results are reported in Tables 2 and 3.

CONCLUSIONS & RECOMMENDATIONS:

Groundwater collected from the three groundwater monitoring wells located down-gradient of the former fuel dispensers contained concentrations of contaminants of concern at levels ranging from non-detect to below regulatory screening levels. Based on this information, the accuracy of the original assumption that the remaining impacted groundwater is localized to the area immediately down gradient of the former dispenser islands and currently beneath the parking and driveway areas of the Site development currently under construction, as indicated on Figure 2, has been confirmed. As a result, SECOR considers the limits of the impacted groundwater adequately assessed.

Therefore, based on the exceedingly small extent of impact and the completed source removal actions, which were performed along with the overlying land use (driveway and parking), SECOR recommends no further assessment or remedial action.

AGENCY DIRECTIVE REQUIREMENTS: Continue quarterly groundwater monitoring.

ATTACHED:

- Site Location Map (Figure 1)
- Site Plan (Figure 2)
- Groundwater Gradient Map, March 17, 2008 (Figure 3)
- Summary of Groundwater Elevation Data (Table 1)
- Summary of Groundwater Analytical Results (Table 2 through Table 3)
- Monitoring Well Purging and Sampling Procedures
- Well Purging/Sampling Logs
- Laboratory Report and Chain-of-Custody Documentation

STANDARD PROCEDURES FOR GROUNDWATER SAMPLING

Groundwater sampling activities involve several activities including groundwater depth measurements, well purging, sample collection, waste water disposal, etc. The procedures for conducting these activities are described below.

DEPTH TO GROUNDWATER

Prior to purging each of the wells, the depth to groundwater within each well casing is measured to the nearest 0.01 foot using either an electronic water level indicator. The wells were measured from the top of each casing. The tops of the well casings were later surveys to provide an accurate elevation.

GROUNDWATER MONITORING WELL PURGING

Purging is conducted prior to sampling wells, a dedicated 3.5 inch by 36 inch Polyethylene Bailor was used to purge the wells. Purge water was contained on-site in 55-gallon DOT-approved drums. To assure that the collected samples were representative of fresh formation water, the conductivity, temperature, and pH of the delivered effluent are monitored and recorded using a Hanna Hydac meter during purge operations. In addition, the turbidity of the removed water is visually monitored and recorded. Purge operations are determined to be sufficient once successive measurements of pH, conductivity, and temperature stabilize to within +/- 10 percent.

During purging a minimum of three (3) well volumes, measured as the annular space of the well casing below the groundwater surface, are removed from each well. However, in the case of very slow recharging wells, purging is deemed sufficient if the well contents are completely evacuated during purge operations. Unless recharge takes more than a couple of hours, wells are sampled once the well is recharged to within in 90 percent of pre-purge groundwater elevation. For very slow recharging wells (wells pumped dry during purging), samples may be collected after 2 hours of recharge.

GROUNDWATER SAMPLE ACQUISITION AND HANDLING

Following purging operations, groundwater samples are collected from each of the wells at the airwater interface, using precleaned, single-sample polyethylene disposable bailers. The groundwater sample is discharged from the bailer to the sample container through a bottom emptying flow control valve to minimize volatilization.

Collected water samples are discharged directly into laboratory provided, precleaned, 40 milliliter (ml) glass vials or one liter amber bottles and sealed with Teflon-lined septum, screw-on lids. Labels documenting sample number, well identification, collection date and time, type of sample and type of preservative (if applicable) are affixed to each sample. The samples are then placed into an ice-filled cooler for delivery under chain-of-custody to a laboratory certified to perform the specified tests by the State of California Department of Health Services Environmental Laboratory Accreditation Program.

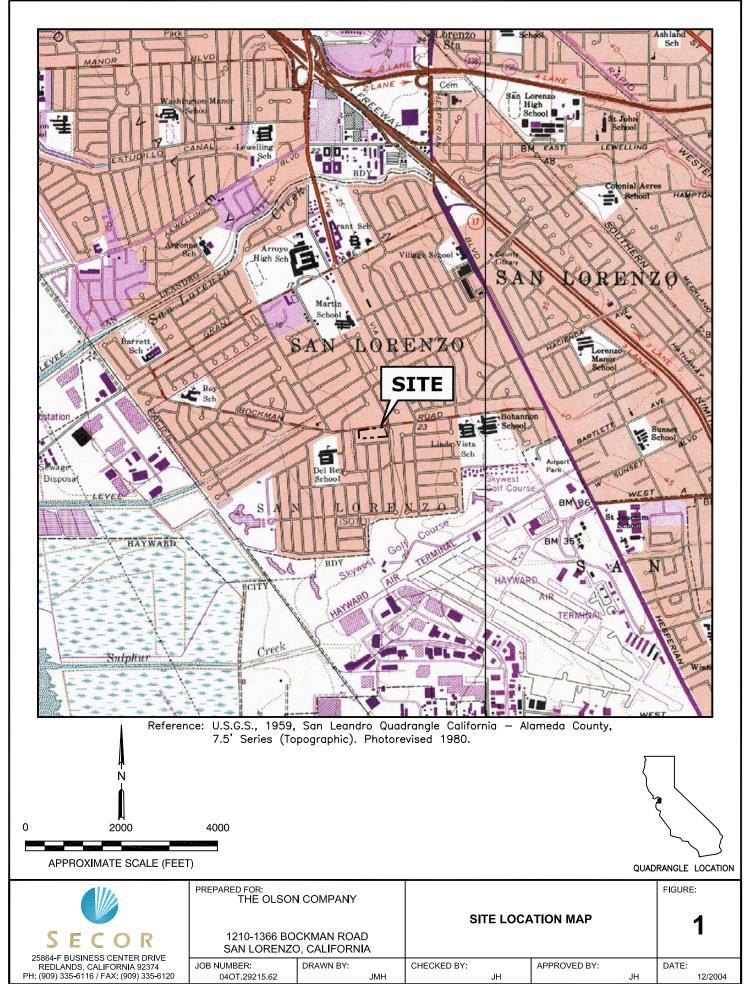
CONTAINMENT AND DISPOSAL OF GENERATED WATER

All wastewater and purge water generated during the field activities are retained on-site in appropriate containers (i.e. DOT approved drums) for future disposal. All wastewater is delivered under appropriate manifest to a facility certified and licensed to receive such waste streams.

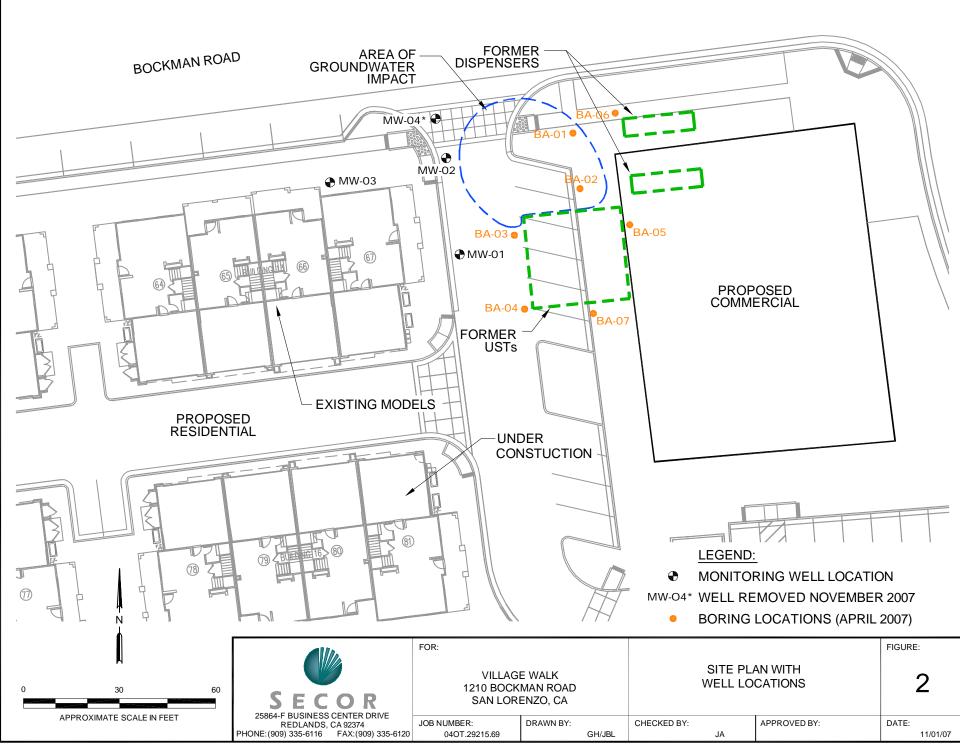
SURVEYING

SECOR was provided the elevations of the three groundwater monitoring wells in feet above mean sea level by a licensed surveyor. A Northerly and Easterly reading will be provided to SECOR shortly and will be uploaded on the Regional Water Quality Control Board's Geotracker website.

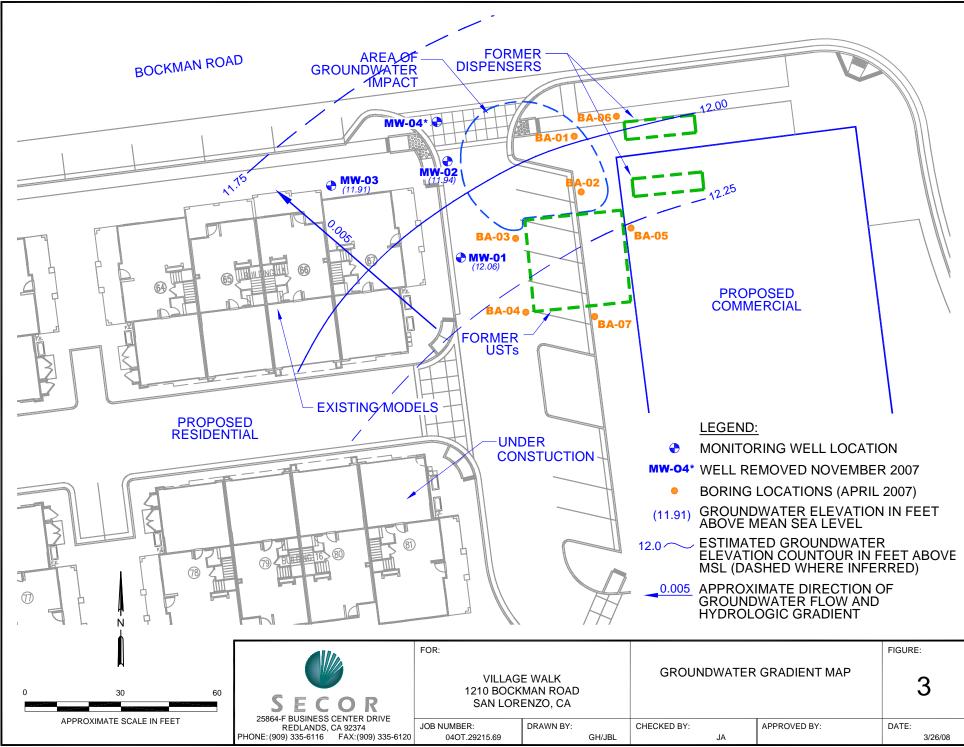
FIGURES



File Path - Q:\CADD-04\CAD Files\Olson-Co\San Lorenzo\OLS-2921561-PH1_south.dwg - Layout: Figure



FILEPATH:Q:\CADD-94\00_OTHER OFFICES\Redlands\Village_Walk\dwg\29215 MW LOCATION MAP.dwg|jlieberman|Mar 18, 2008 at 9:52|Layout: SITEMAP



FILEPATH:Q:\CADD-10\Other Office Work\Office 04\29215 MW LOCATION MAP.dwg|ssmith|Mar 26, 2008 at 15:02|Layout: SITEMAP

TABLES

Table 1

Summary of Groundwater Elevation Data Olson - San Lorenzo 1210 Bockman Road San Lorenzo, California SECOR Job No.: 040T.29215.69

Well ID/Surveyed Elevation ⁽¹⁾	Date	Depth to Static Water (feet bgs)	Groundwater Elevation ⁽²⁾ (feet AMSL)
MW-01	3/17/2008	8.24	12.06
20.3			
MW-02	3/17/2008	7.65	11.94
19.59			
MW-03	3/17/2008	8.67	11.91
20.58			

NOTES:

(1) Elevations are mesured in feet above mean sea level (AMSL), site surveyed on March 24, 2008

(2) Groundwater Elevation in feet AMSL = Surveyed Well Elevation subtracted by Depth to Water

Table 2

Summary of Groundwater Analytical Results TPH by modified EPA 8015B (μg/L) Olson - San Lorenzo 1210 Bockman Road San Lorenzo, California SECOR Job No.: 040T.29215.69

Sample ID	Sampling Date	TPH ⁽²⁾ (8015) ⁽³⁾			
		C4-C12 ⁽⁴⁾	C12-C22 ⁽⁵⁾		
RWQCB ESLs (µg/L)	100	100		
MW-01-W	3/17/2008	<0.1	<0.4		
MW-02-W	3/17/2008	0.41	<0.4		
MW-03-W	3/17/2008	<0.1	<0.4		
MW-04-W ⁽⁶⁾	11/7/2007	<0.5	<0.4		

NOTES:

(1) Sample depth is reported as feet below ground surface

(2) Concentrations reported in micrograms per liter (μ g/L)

(3) EPA Test Method

(4) Characteristic carbon chain of Gasoline

(5) Characteristic carbon chain of Diesel

(6) MW-04 was removed due to conflict with contruction activities

< - Indicates the concentration was not detected above the laboratory method detection limit.

ABBREVIATIONS:

TPH - Total Petroleum Hydrocarbons

RWQCB ESLs - Environmental Screening Levels for Potential Source of Drinking Water established by the San Fransisco Bay Regional Water Quality Control Board (February 2005)

Table 3

Summary of Groundwater Analytical Results VOCs by EPA 8260B (µg/L) Olson - San Lorenzo 1210 Bockman Road San Lorenzo, California SECOR Job No.: 040T.29215.69

			VOCs ⁽²⁾ (8260) ⁽³⁾												
Sample ID	Sampling Date	Methyl- tert-butyl ether (MtBE)	tert-Amyl Methyl Ether (TAME)	Diisoprop yl Ether (DIPE)	Ethyl tert- Butyl Ether (EtBE)	tert-	Benzene	Ethylene Dibromide	1,2 Dichloro ethane (DCA)	Ethyl- benzene	Toluene	Total Xylenes	n- Butylben zene	n- Propylbe nzene	lsopropyl benzene
CA MCLs (µg/L)		13	NR	NR	NR	NR	1	NR	0.5	300	150	1750	NR	NR	NR
Fedral MCLs (µg/L)		NR	NR	NR	NR	NR	5	NR	5	700	1000	10000	NR	NR	NR
RWQCB ESLs (µg/I	_)	5	NR	NR	NR	12	1	0.05	0.5	30	40	20	NR	NR	NR
Samples															
MW-01-W	3/17/2008	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-02-W	3/17/2008	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	3.4	2.2	1.0
MW-03-W	3/17/2008	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5
MW-04-W ⁽⁴⁾	11/7/2007	<1.0	<1.0	<1.0	<1.0	<10	<0.5	<0.5	<0.5	<0.5	<0.5	<1.0	<1.0	<0.5	<0.5

NOTES:

(1) Sample depth is reported as feet below ground surface

(2) Concentrations reported in micrograms per liter (μ g/L)

(3) EPA Test Method

(4) MW-04 was removed due to conflict with construction activities

< - Indicates the concentration was not detected above the laboratory method detection limit.

ABBREVIATIONS:

VOCs - Volatile Organic Compounds

CA MCLs - Maximum Contaminant Levels established by the State of California

Federal MCLs - Maximum Contaminant Levels established by the Federal Environmental Protection Agency

RWQCB ESLs - Environmental Screening Levels for Potential Source of Drinking Water established by the San Fransisco Bay Regional Water Quality Control Board (February 2005)

NR - Not Reported

APPENDIX A WATER SAMPLE FIELD DATA SHEETS

SECOR
WATER SAMPLE FIELD DATA SHEET
PROJECT NO: 040T. 29215.69 WELL ID. MW-01
PROJECT NO: 040T. 29215.69 WELL ID: MW-01 PURGED BY: JASON ADELAARS SAMPLE ID: MW-01-W SAMPLED BY: JASON ADELAARS CLIENT NAME: THE OLSON COMPANY
SAMPLED BY: JASON ADELAARS CLIENT NAME: THE OLSON COMPANY
TYPE: GROUNDWATER OTHER
CASING DIAMETER (inches) 2 3 4 4.5 6 Other
GALLONS/LINEAR FOOT: $2''=0.163$ $3''=0.367$ $4''=0.653$ $4.5''=0.826$ $6''=1.469$
DEPTH TO PRODUCT (feet):
DEPTH TO WATER (feet): 0.29 CALCULATED PURGE (gal.): 9.03
PRODUCT THICKNESS (feet):ACTUAL PURGE VOL. (gal.): 10
DATE PURGED: 3/17/08 Start (2400hr) 1510 End (2400hr) 1530
DATE SAMPLED: 3/17/08 Start (2400hr) 1530 End (2400hr) 1530
FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1):
(2400 HR) (GALLONS) (UNITS) (umhos/pm@25%) (F°) (VISUAL) (NTU)
1013 1.01 0.90 60.0 CLEAR
<u>1518</u> <u>3</u> <u>8.54</u> <u>0.90</u> <u>60.5</u> <u>UGHT BROWN</u> <u>1523</u> <u>5</u> <u>8.18</u> <u>0.94</u> <u>60.7</u> <u>UGHT BROWN</u>
<u>1523</u> <u>5</u> <u>8.18</u> <u>0.94</u> <u>60.7</u> <u>U6HT BROWN</u> <u>1527</u> <u>8</u> <u>8.21</u> <u>0.94</u> <u>60.6</u> <u>L16HT BROWN</u>
1530 10 7.98 0.93 60.0 LIGHT BROWN
PURGING EQUIPMENT SAMPLING EQUIPMENT
DEDICATED PUMPDEDICATED PUMP
GRUNDFOS/REDIFLOWGRUNDFOS/REDIFLOW
VAC-TRUCKVAC-TRUCK
DEVELOPMENT RIG DEVELOPMENT RIG DEVELOPMENT RIG DEVELOPMENT RIG DEVELOPMENT RIG DEVELOPMENT RIG
OTHER:OTHER:OTHER:OTHER:OTHER:OTHER:OTHER:OTHER:OTHER:
WELL INTEGRITY:GOOD
REMARKS: WELL CASING EXTENDED + WELLBOK RESET AT
SURFACE GRADE, MEASUREMENTS AND SAMPLING CONDUCTED
AFTER EXTENSION OF CASING.
, Λ
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SECOR WATER SAMPLE FIELD DATA SHEET
WATER SAMILE HELD DATA SHEET
PROJECT NO: 040T. 29215.69 WELL ID: MW-02 PURGED BY: JASON ADELAARS SAMPLED BY: JASON ADELAARS CLIENT NAME: THE OLSON COMPANY SAMPLED BY: JASON ADELAARS CLIENT NAME: THE OLSON COMPANY LOCATION: SAN LOREN 20
CASING DIAMETER (inches) 2 3 4X 4.5 6 Other
GALLONS/LINEAR FOOT: 2"=0.163 3"=0.367 $4"=0.653$ 4.5"=0.826 6"=1.469
DEPTH TO PRODUCT (feet):
DATE PURGED: 3/17/08 Start (2400hr) 1720 End (2400hr) 1735 DATE SAMPLED: 3/17/08 Start (2400hr) 1740 End (2400hr) 1740
FIELD QC SAMPLES COLLECTED AT THIS WELL (I.e. FB-1, X-DUP-1):
TIME (2400 HR) VOLUME (GALLONS) pH (UNITS) E.C. (UNITS) TEMPERATURE (F°) COLOR (F°) TURBIDITY (VISUAL) 1723 1.5 7.96 0.84 59.1 BROWN BROWN 1727 4.0 7.84 0.86 59.4 BROWN
PURGING EQUIPMENT DEDICATED PUMP GRUNDFOS/REDIFLOW GRUNDFOS/REDIFLOW QRUNDFOS/REDFFN QRUNDFOS/REDFFN QRUNDFOS/REDFFN QRUNDFOS/REDFFN QRUNDFOS/REDFFN
WELL INTEGRITY: 6000
REMARKS: WELL CASING EXTENDED + WELL BOK RESET AT
CONDUCTED AFTER CASING EXTENSION. OF CASING.
CONDUCTED AFTER CASING EXTENSION. OF CASING. NO SLIP CAP ON WELL
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SECOR
WATER SAMPLE FIELD DATA SHEET
PROJECT NO: 040T. 29215.69 WELL ID: MW-03 PURGED BY: JASON ADELAARS SAMPLE ID: MW-03-W SAMPLED BY: JASON ADELAARS CLIENT NAME: THE OLSON COMPANY LOCATION: SAN LOREN 20 TYPE: GROUNDWATER X OTHER
CASING DIAMETER (inches) 2 3 4 _X 4.5 6 Other
GALLONS/LINEAR FOOT: 2"=0.163 3"=0.367 (4"=0.653) 4.5"=0.826 6"=1.469
DEPTH TO PRODUCT (feet):
DATE PURGED: 3/17/08 Start (2400hr) 1600 End (2400hr) 1620 DATE SAMPLED: 3/17/08 Start (2400hr) 1625 End (2400hr) 1625
FIELD QC SAMPLES COLLECTED AT THIS WELL (i.e. FB-1, X-DUP-1):
TIME (2400 HR) VOLUME (GALLONS) pH (UNITS) E.C. (UMHes/cm @25%C) TEMPERATURE (F°) COLOR (VISUAL) TURBIDITY (NTU) 1605 1 8.43 0.94 60.1 CLEAR (NTU) 1610 3 8.00 0.93 60.7 LIGHT BROWN 1615 5 7.97 0.98 59.7 BROWN 1620 8 7.70 0.93 60.8 BROWN 1622 10 7.60 0.93 60.8 BLOWN
PURGING EQUIPMENT SAMPLING EQUIPMENT DEDICATED PUMP DEDICATED PUMP GRUNDFOS/REDIFLOW GRUNDFOS/REDIFLOW VAC-TRUCK CAC-TRUCK DEVELOPMENT RIG DEVELOPMENT RIG DEVELOPMENT RIG DEVELOPMENT RIG OTHER: OTHER:
WELL INTEGRITY: 6000
REMARKS: WELL CASING EXTENDED + WELL BOX RESET AT SURFACE GRADE, MEASUREMENTS, PURGING, + SAMPLING
CONDUCTED AFTER 5XTENSION OF WELL CASING,
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APPENDIX B CHAIN OF CUSTODY RECORDS, LAB DATA SHEETS, AND QA/QC RESULTS



Client: SECOR 25864-F Business Center Dr. Redlands, CA 92374-4515 Date Sampled:03/17/08Date Received:03/18/08Job Number:31021

Project: Olson - San Lorenzo

CASE NARRATIVE

The following information applies to samples which were received on 03/18/08:

The samples were received at the laboratory chilled and sample containers were intact.

Unless otherwise noted below, the Quality Control acceptance criteria were met for all samples for every analysis requested. The date of issue for this report is 03/19/08.

Report approved by:

Robert R. Clark, PhD Technical Director

ELAP Lab# 2419, 2479, 2527, 2373, 2562, 2122

RL: Reporting Limit -- The lowest level at which the compound can be reliably detected under normal laboratory conditions. ND: Not Detected -- The compound was analyzed for, but was not found to be present at or above the Reporting Limit. NA: Not Analyzed -- This compound was not on the list of compounds requested for analysis.

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951•779•0310 or 800•798•9336 fax 951•779•0344 www.centrum-labs.com 1401 Research Park Drive, Suite 100, Riverside, CA 92507





Extractable Hydrocarbons as Diesel by mod. EPA 8015B

Client:	SECOR	Date Sampled: 03/17/08
Project:	Olson - San Lorenzo	Date Received: 03/18/08
Job No.:	31021	Date Extracted: 03/18/08
Matrix:	Water	Date Analyzed: 03/18/08
Analyst:	AW	Batch Number: 8015DW4288

	Reporting Limit	Diesel	Surrogate (OTP)
Sample ID	mg/L	mg/L	Limit: 50 - 150%
Method Blank	0.40	ND	97 %
MW-01-W	0.40	ND	95 %
MW-02-W	0.40	ND	88 %
MW-03-W	0.40	ND	87 %





QC Sample Report - Extractable Hydrocarbons as Diesel by mod. EPA 8015B

Matrix: Water Batch number: 8015DW4288

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (mg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
				_
Diesel	3.2	85	70 - 130	Pass

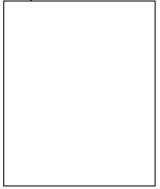
Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Compound	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Diesel	2.72	2.91	7%	25%	Pass

Analytical Notes:

Analytical Notes:



MS: Matrix Spike MSD: Matrix Spike Duplicate LCS: Laboratory Control Sample

LCSD: Laboratory Control Sample Duplicate



Volatile Hydrocarbons as Gasoline by GCMS

Client:	SECOR	Date Sampled:	03/17/08
Project:	Olson - San Lorenzo	Date Received:	03/18/08
Job No.:	31021	Date Analyzed:	03/18/08
Matrix:	Water	Batch Number:	MS2TPHGW1188
Analyst:	CMR		

	Reporting Limit	Volatile Hydrocarbons as Gasoline
Sample ID	mg/L	mg/L
Method Blank	0.10	ND
MW-01-W	0.10	ND
MW-02-W	0.10	0.41
MW-03-W	0.10	ND

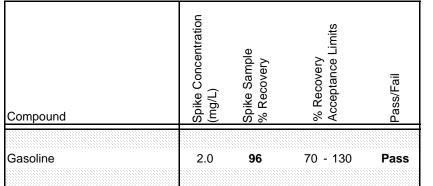


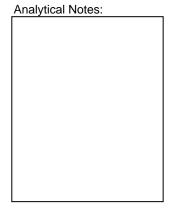
QC Sample Report - Volatile Hydrocarbons as Gasoline by GCMS

Matrix: Water Batch Number: MS2TPHGW1188

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

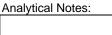


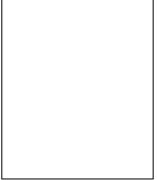


Batch Precision Results

MS/MSD Sample ID: Laboratory Control Sample

Compound	MS Sample Result (mg/L)	MSD Sample Result (mg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail
Gasoline	1.93	1.84	5%	25%	Pass





MS: Matrix Spike MSD: Matrix Spike Duplicate LCS: Laboratory Control Sample

LCSD: Laboratory Control Sample Duplicate



Volatile Organic Compounds by EPA 8260B

Client:	SECOR
Project:	Olson - San Lorenzo
Job No.:	31021
Matrix:	Water
Analyst:	CMR

Date Sampled:	03/17/08
Date Received:	03/18/08
Date Analyzed:	03/18/08
Batch Number:	MS28260W1188

	Sample ID:	Blank	MW-01-W	MW-02-W	MW-03-W	
Compounds	RL	μg/L	μg/L	μg/L	μg/L	
Acetone	50	ND	ND	ND	ND	
tert-Amyl Methyl Ether (TAM	E) 1.0	ND	ND	ND	ND	
Benzene	0.5	ND	ND	ND	ND	
Bromobenzene	1.0	ND	ND	ND	ND	
Bromochloromethane	1.0	ND	ND	ND	ND	
Bromodichloromethane	0.5	ND	ND	ND	ND	
Bromoform	0.5	ND	ND	ND	ND	
Bromomethane	2.0	ND	ND	ND	ND	
tert-Butanol (TBA)	10	ND	ND	ND	ND	
2-Butanone (MEK)	10	ND	ND	ND	ND	
n-Butylbenzene	1.0	ND	ND	3.4	ND	
sec-Butylbenzene	0.5	ND	ND	ND	ND	
tert-Butylbenzene	0.5	ND	ND	ND	ND	
Carbon disulfide	10	ND	ND	ND	ND	
Carbon tetrachloride	0.5	ND	ND	ND	ND	
Chlorobenzene	0.5	ND	ND	ND	ND	
Chloroethane	0.5	ND	ND	ND	ND	
Chloroform	0.5	ND	ND	ND	ND	
Chloromethane	2.0	ND	ND	ND	ND	
2-Chlorotoluene	0.5	ND	ND	ND	ND	
4-Chlorotoluene	0.5	ND	ND	ND	ND	
Dibromochloromethane	0.5	ND	ND	ND	ND	
1,2-Dibromoethane	0.5	ND	ND	ND	ND	
1,2-Dibromo-3-chloropropan	e 10	ND	ND	ND	ND	
Dibromomethane	0.5	ND	ND	ND	ND	
1,2-Dichlorobenzene	0.5	ND	ND	ND	ND	
1,3-Dichlorobenzene	0.5	ND	ND	ND	ND	
1,4-Dichlorobenzene	0.5	ND	ND	ND	ND	
Dichlorodifluoromethane	0.5	ND	ND	ND	ND	
1,1-Dichloroethane	0.5	ND	ND	ND	ND	
1,2-Dichloroethane	0.5	ND	ND	ND	ND	
1,1-Dichloroethene	0.5	ND	ND	ND	ND	
cis-1,2-Dichloroethene	0.5	ND	ND	ND	ND	
trans-1,2-Dichloroethene	0.5	ND	ND	ND	ND	
1,2-Dichloropropane	0.5	ND	ND	ND	ND	
1,3-Dichloropropane	0.5	ND	ND	ND	ND	
2,2-Dichloropropane	0.5	ND	ND	ND	ND	
1,1-Dichloropropene	0.5	ND	ND	ND	ND	





Volatile Organic Compounds by EPA 8260B

Client:	SECOR							
Project:	Olson - San Lorenzo							
Job No.:	31021							
Matrix:	Water							
Analyst:	CMR							

Date Sampled:	03/17/08
Date Received:	03/18/08
Date Analyzed:	03/18/08
Batch Number:	MS28260W1188

	Sample ID:	Blank	MW-01-W	MW-02-W	MW-03-W	
Compounds	RL	μg/L	μg/L	μg/L	μ g/L	
cis-1,3-Dichloropropene	0.5	ND	ND	ND	ND	
trans-1,3-Dichloropropene	0.5	ND	ND	ND	ND	
Diisopropyl Ether (DIPE)	1.0	ND	ND	ND	ND	
Ethylbenzene	0.5	ND	ND	ND	ND	
Ethyl tert-Butyl Ether (EtBE)	1.0	ND	ND	ND	ND	
Hexachlorobutadiene	0.5	ND	ND	ND	ND	
2-Hexanone	10	ND	ND	ND	ND	
Isopropylbenzene	0.5	ND	ND	1.0	ND	
p-Isopropyltoluene	0.5	ND	ND	ND	ND	
Methylene chloride	50	ND	ND	ND	ND	
4-Methyl-2-pentanone	5.0	ND	ND	ND	ND	
Methyl-tert-butyl ether (MtBE	E) 1.0	ND	ND	ND	ND	
Naphthalene	0.5	ND	ND	ND	ND	
n-Propylbenzene	0.5	ND	ND	2.2	ND	
Styrene	0.5	ND	ND	ND	ND	
1,1,1,2-Tetrachloroethane	0.5	ND	ND	ND	ND	
1,1,2,2-Tetrachloroethane	1.0	ND	ND	ND	ND	
Tetrachloroethene	0.5	ND	ND	ND	ND	
Toluene	0.5	ND	ND	ND	ND	
1,2,3-Trichlorobenzene	0.5	ND	ND	ND	ND	
1,2,4-Trichlorobenzene	0.5	ND	ND	ND	ND	
1,1,1-Trichloroethane	0.5	ND	ND	ND	ND	
1,1,2-Trichloroethane	0.5	ND	ND	ND	ND	
Trichloroethene	0.5	ND	ND	ND	ND	
1,2,3-Trichloropropane	0.5	ND	ND	ND	ND	
Trichlorofluoromethane	0.5	ND	ND	ND	ND	
Trichlorotrifluoroethane	5.0	ND	ND	ND	ND	
1,2,4-Trimethylbenzene	0.5	ND	ND	ND	ND	
1,3,5-Trimethylbenzene	0.5	ND	ND	ND	ND	
Vinyl chloride	0.5	ND	ND	ND	ND	
Xylenes, m-,p-	1.0	ND	ND	ND	ND	
Xylene, o-	0.5	ND	ND	ND	ND	

Surrogates in % Recovery (Acceptance Limits: 70 - 130%)

Sample ID:	Blank	MW-01-W	MW-02-W	MW-03-W	
Dibromofluoromethane	121	115	117	125	
Toluene-d8	84	89	86	85	
Bromofluorobenzene	114	112	109	112	



QC Sample Report - Volatile Organic Compounds by EPA 8260B

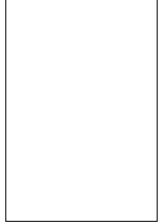
Matrix: Water Batch Number: MS28260W1188

Batch Accuracy Results

Spike Sample ID: Laboratory Control Sample

Compound	Spike Concentration (µg/L)	Spike Sample % Recovery	% Recovery Acceptance Limits	Pass/Fail
1,1-Dichloroethene	50	99	70 - 130	Pass
Benzene	50	96	70 - 130	Pass
Trichloroethene	50	90	70 - 130	Pass
Toluene	50	89	70 - 130	Pass
Chlorobenzene	50	96	70 - 130	Pass

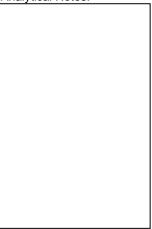
Analytical Notes:



Batch Precision Results

MS/MSD Sample ID: Laborat	ory Control	Sample				
Compound	MS Sample Result (µg/L)	MSD Sample Result (µg/L)	Relative Percent Difference (RPD)	RPD Acceptance Limit	Pass/Fail	
1,1-Dichloroethene	49.26	53.85	9%	25%	Pass	
Benzene	47.77	49.57	4%	25%	Pass	
Trichloroethene	44.86	49.19	9%	25%	Pass	
Toluene	44.59	45.20	1%	25%	Pass	
Chlorobenzene	47.93	49.94	4%	25%	Pass	

Analytical Notes:



MS: Matrix Spike MSD: Matrix Spike Duplicate LCS: Laboratory Control Sample LCSD: Laboratory Control Sample Duplicate

	Ana	trum lytical pratorie	s, Inc	. .			in of Custo	bdy	y F	Żeo	co	rd			ı			Ce	entri	um Job # 31021						
	1401 Rese Riverside,	arch Park Driv CA 92507 .779.0310 ● 80	e, Suite 1	00		3299 Hill Street, Su Signal Hill, CA 900 Voice: 562.498.7005 Fax: 562.498.8617	SUS		***			labs.co		nal	•	Requ				Page of						
Project No:				Project Na		DN- JAN	LORENZO			ranges)					Pest/PCB					Turn-Around Time						
Project Manz		DELAAD	S	Phone: email:	adela	Fax:	or com	DRO	GRO	Chain (specify			Only		or PCBs, or Pes	RCRA, or PP			or 1664	24 Hr. RUSH * □ 48 Hr. RUSH * □ Normal TAT □ Other						
Client Name: (Report and Billin		Address: Note: Reports and Invoice will be sent here (Report and Billing) 7.5864-F BUSINESS (SINESSCUTE	LUFT Diesel, AEPA 8015B	8015B 015B G	Fuel ID (TVH, TEH), Carbon	I' I	BTEX/MtBE <u>Only</u>	sent hr 624	8260B or 624	ates	ates	ates	ates	ates	ates	ates	ates	8270C, or 625	8081A/8082: Pesticides,	Title 22 (CAM), or		S, TSS	or 413.2,	* Requires <u>PRIOR</u> approval, additional charges apply Requested due date:
Centrum ID (Lab use only)		ample ID	Date sampled	Time sampled	Sample matrix	Site location	Containers: # and type			Fuel ID (8021B:				8081A/80	Metals:	Metals:	pH, TDS,		Remarks/Special Instructions						
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2		-02-W	4	1740			 	X	X			2	<u> </u>		$\left \right $		-	-								
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1) Relinquis	hed av: (Sar	npler's Signature)	7	Date:	Time: 630	3) Relinquished by:		Dat	te:	Tim	ie:	Tob	e com	pleted	d by La	borato	ry per	sonn	nel:	Sample Disposal						
2) Received	by: 1			Date:	Time:	4) Received by:	¥	Dat	te:	Tim	ie:			l?)¤(Yes TempC □ From Field dy seals? □ Yes)¤(No			🗆 Fra	om Fi	eld Client will pick up							
constitutes	authorization	and the signature n to perform the an ns set forth on the	nalyses spec	cified above		5) Relinquished by: FEDE 6) Received for Laborat	X ory by:	Dat Dat 3/1	te:	Tim Tim 3 Ai	ie:	All s	ample	cont	ainers	intact?	μ			54, Lab disposal Sample Locator Number: 404						
Laboratory 1	Notes:						<u> </u>					Repo				eck all a										
				_								12	aper n ARWC	•	•					address) □ EDD (GISKEY) □ EDD (Other) * *with prior approval on v12 903 (corests)						