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May 25, 2005

4563.01

Humboldt County Department of Health and Human Services
Division of Environmental Health
100 H Street, Suite 100
Eureka, California 95501

Attention: Mr. Mark Verhey, C.E.G.

Subject: Groundwater Monitoring Report; Second Quarter 2005
Former Fortuna Shell; 819 Main Street, Fortuna, California
LOP No. 12672

Dear Mr. Verhey:

LACO ASSOCIATES (LACO) presents the results of groundwater monitoring for the second quarter of 2005, at the Humboldt Petroleum, Incorporated (HPI) former Fortuna Shell (presently Gas-4-Less) located in Fortuna, California (Figure 1). A site map and a sparge well location map are included and presented as Figures 2 and 3, respectively.

Please call or e-mail if you have any questions or concerns.

Sincerely,
LACO ASSOCIATES

Amy Thomson
Staff Geologist

Christopher J. Watt
PG 7586, Exp. 03/31/06

cc: Jim Seiler, Humboldt Petroleum

PROFESSIONAL GEOLOGIST
CHRISTOPHER JOHN WATT
No. 7586
Exp. 03/31/
STATE OF CALIFORNIA

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GROUNDWATER MONITORING REPORT SECOND QUARTER 2005

Former Fortuna Shell; 819 Main Street, Fortuna, California
LOP No. 12672; LACO Project No. 4563.01

Introduction

Field activities were conducted on May 3, 2005, in accordance with generally accepted practices in this or similar locations. Details of the current groundwater monitoring sampling event are presented in Table A, below. A location map and site plan are included as Figures 1 and 2. Field sampling forms are included as Attachment 1.

Site Chronology

1999: Tanks were removed from the site. The contaminated cavity fill and excavated soil was stockpiled temporarily on-site.

2001: Monitoring wells MW 1 through MW13 were installed on site.

2002: Groundwater sampling was performed and the site characterized. Sparge wells were recommended.

2004: Two sparge wells were installed and a pilot test conducted.

TABLE A SAMPLING EVENT: March 8, 2005						
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS	SAMPLING SCHEDULE
					ORGANICS	
MW1	6-10	5.05	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW2	5-10	4.75	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW3	5-12	5.67	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW4	5-10	4.61	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW5	5-10	4.19	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW6	12-20	5.33	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW7	10-15	4.67	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly

TABLE A SAMPLING EVENT: March 8, 2005 Cont'd						
MONITORING WELL ID	SCREENED INTERVAL (feet)	DTW (feet)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS	SAMPLING SCHEDULE
MW8	15-20	10.34	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW9	12-15	8.06	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW10	12.5-15.5	9.4	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW11	12.5-15.6	9.45	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW12	12.5-15	9.11	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW13	12.5-16	8.26	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW14	5-10	5.34	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW15	5-10	4.96	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW16	5-11	4.55	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW17S	22.5-24.5	21.83	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly
MW17D	26-28	25	DHP	pH, T, ECw, ORP, DO	TPHg, BTEX, MTBE, DIPE, ETBE, TAME, TBA	Quarterly

Hydraulic Gradient

Equipotential maps for the perched and shallow aquifers were generated using the May 3, 2005, hydraulic head elevations, and are presented as Figures 4 and 5, respectively. The hydraulic gradient in the perched aquifer was calculated using the three-point method in the area defined by monitoring wells MW1, MW3, and MW14. These monitoring wells were selected because they are located along the site perimeter and thus represent the hydraulic gradient over the site. The hydraulic gradient for the perched wells for this sampling event was estimated at 3.25 percent in a N35°W direction (Figure 4). The hydraulic gradient in the shallow aquifer was calculated using the three-point method in the area defined by monitoring wells MW7, MW11, and MW13. The hydraulic gradient for the shallow wells for this sampling event was 4.94 percent in the S79°W direction (Figure 5). The calculated gradient for the shallow and perched aquifers is consistent with previous measuring events (Table 1). Current and historic hydraulic head elevations are

presented in Table 2.

Laboratory Analytical Results

Groundwater analytical data from the current sampling event for the intermediate, perched, and shallow aquifers are included in Tables B, C, and D below, respectively. Copies of the current laboratory results are included as Attachment 2. Current and historic groundwater analytical data are presented in Table 2.

Table B: Intermediate Aquifer Analytical Results for the May 3, 2005, Sampling Event.

Well	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Other Analytes (µg/L)
MW17S	**320**	ND<50	ND<190	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**MTBE=300** **DIPE=1.8** **ETBE=1.7** **TAME=2.1** All Others=ND
MW17D	**130**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**MTBE=100** **DIPE=2.0** All Others=ND

Table C: Perched Aquifer Analytical Results for the May 3, 2005, Sampling Event.

Well	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Other Analytes (µg/L)
MW1	3,900	370	ND<170	4.4	3.7	18	6.78	ND<1.0-10
MW2	11,000	990	ND<170	30	5.7	33	26.3	TAME=1.1
MW3	1,600	280	ND<170	1.1	ND<0.50	ND<0.50	1.29	MTBE=23 TAME=2.0 All Others=ND
MW4	300	ND<50	ND<170	1.3	ND<0.50	ND<0.50	.55	MTBE=1.8 ND<1.0-10
MW5	21,000	3,900	2,000	640	18	180	112.5	MTBE=210 TBA=75 TAME=6.9 ETBE=1.2 All Others=ND
MW14	1,000	140	ND<170	1.3	.55	1.3	.59	MTBE=7.9 TAME=1.2
MW15	2,200	170	ND<170	75	2.4	15	5.74	TAME=1.9
MW16	7,900	370	ND<170	580	15	35	40	MTBE=470 TBA=300 TAME=14 ETBE=4.3 All Others=ND

Table D: Shallow Aquifer Analytical Results for the May 3, 2005, Sampling Event.

Well	TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	Other Analytes (µg/L)
MW6	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**MTBE=6.8** All Others=ND
MW7	**150**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**MTBE=140** **TAME=7.3** All Others=ND
MW8	**1,900**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**MTBE=3,300** **TBA=890** **ETBE=12** **DIPE=2.2** **1,2-DCA=1.8** All Others=ND
MW9	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**MTBE=4.1** All Others=ND
MW10	ND<50	ND<50	**210**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**MTBE=9.1** All Others=ND
MW11	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**MTBE=3.0** All Others=ND
MW12	**640**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**MTBE=720** **TAME=34** **ETBE=3.2** **DIPE=1.6** All Others=ND
MW13	**63**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**MTBE=63** **TAME=1.7** All Others=ND

Future Work

- Monitoring and reporting will continue as scheduled; the next sampling event is scheduled for August 2005.
- A proposal for the Pay-For-Performance program was recently submitted to the Underground Storage Tank Cleanup Fund.
- Due to low concentrations of methyl tertiary butyl ether reported at monitoring wells MW9, MW10, and MW11, LACO has changed to a bi-annual (February-August) sampling regime.

List of Figures, Tables, and Attachments

Figure 1: Location Map
Figure 2: Site Map
Figure 3: Sparge Well Location
Figure 4: Hydrologic Gradient Map (Perched Wells) for May 3, 2005
Figure 5: Hydrologic Gradient Map (Shallow Wells) for May 3, 2005

Table A: Sampling Event History
Table B: Intermediate Aquifer Analytical Results (MW17S, MW17D) for May 3, 2005

Table C: Perched Aquifer Analytical Results (MW1, MW2, MW3, MW4, MW5, MW14, MW15, MW16) for May 3, 2005
Table D: Shallow Aquifer Analytical Results (MW6, MW7, MW8, MW9, MW10, MW11, MW12, MW13) for May 3, 2005

Table 1: Historic Hydraulic Gradients
Table 2: Quarterly Groundwater Analytical Results

Attachment 1: Field Sampling Forms
Attachment 2: Current Laboratory Analytical Results

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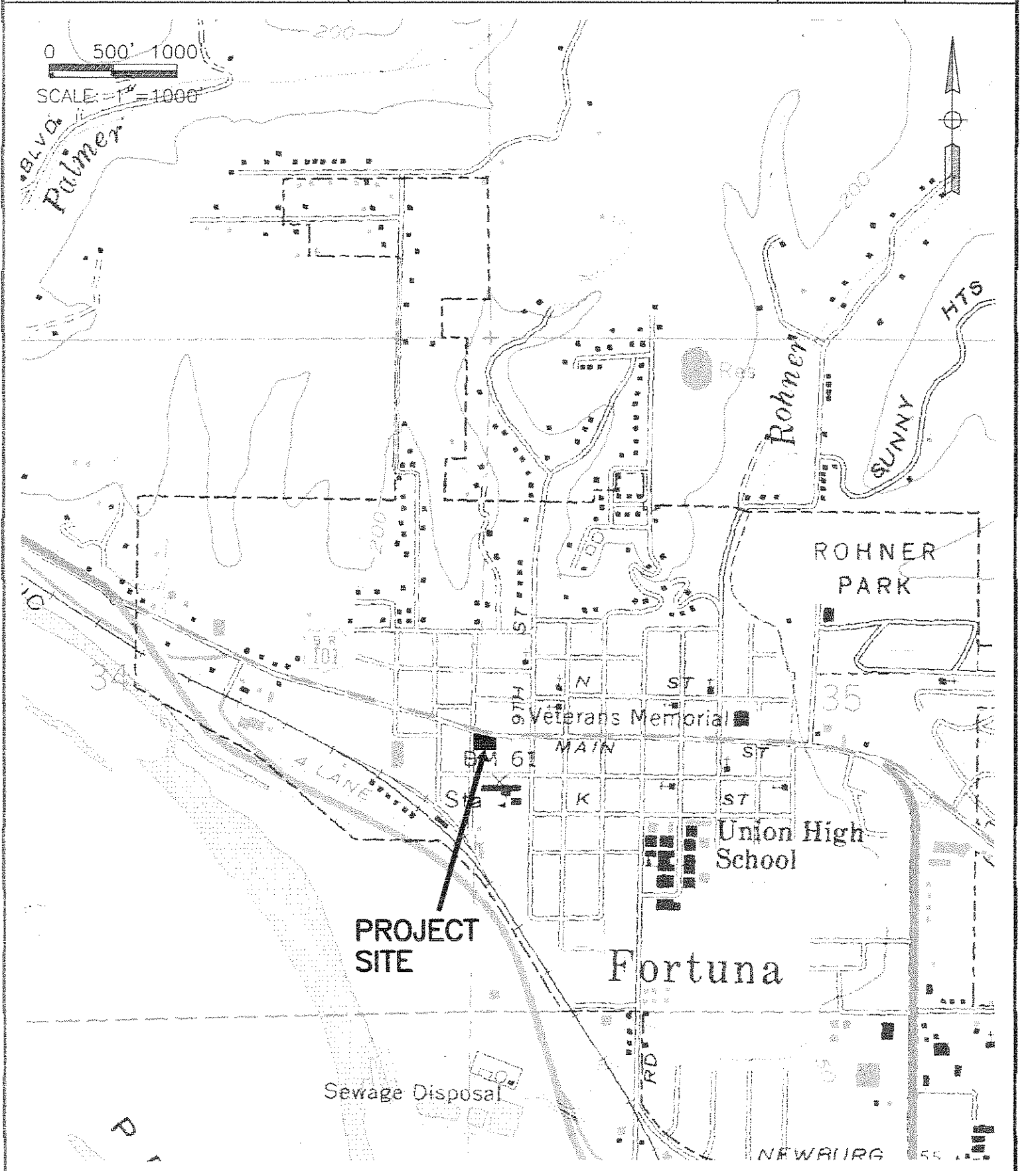
LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY BAB	FIGURE 1
	CLIENT HUMBOLDT PETROLEUM INC	DATE 5/17/05	
	LOCATION FORTUNA SHELL	CHECK	JOB NO. 4563.01
	LOCATION MAP	SCALE 1"=1000'	



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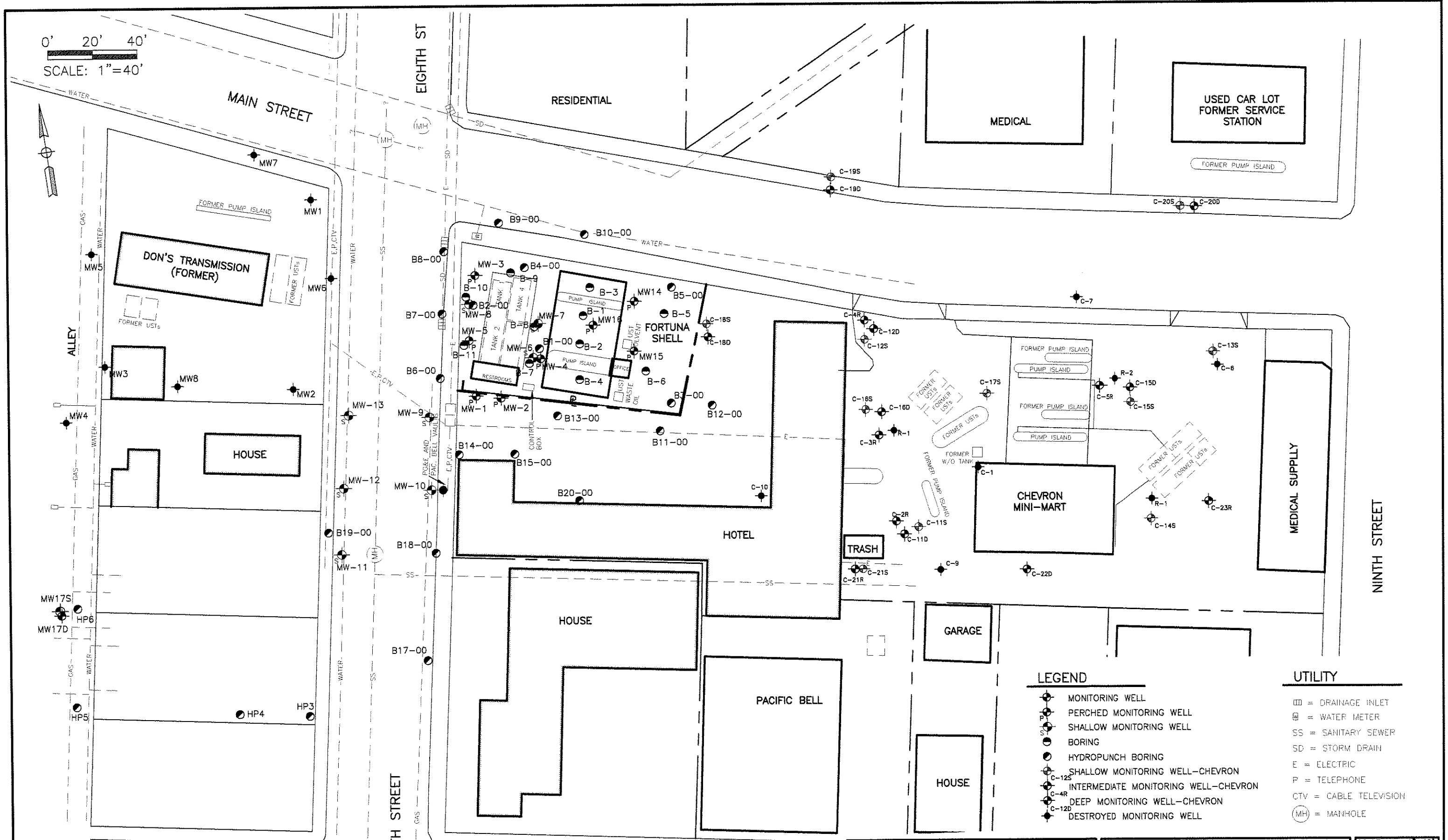

NO.	REVISION	BY	CHK	DATE

LACO ASSOCIATES
CONSULTING ENGINEERS
21 W. 4TH ST. EUREKA, CA 95501 (707)443-5054

GROUNDWATER MONITORING REPORT
SITE MAP

HUMBOLDT PETROLEUM INC
FORTUNA SHELL
819 MAIN STREET, FORTUNA

SCALE	1"=40'
DRAWN	RJM
CHECK	
APPVD	
DATE	5/17/05
JOB NO.	4563.01
FIGURE	2

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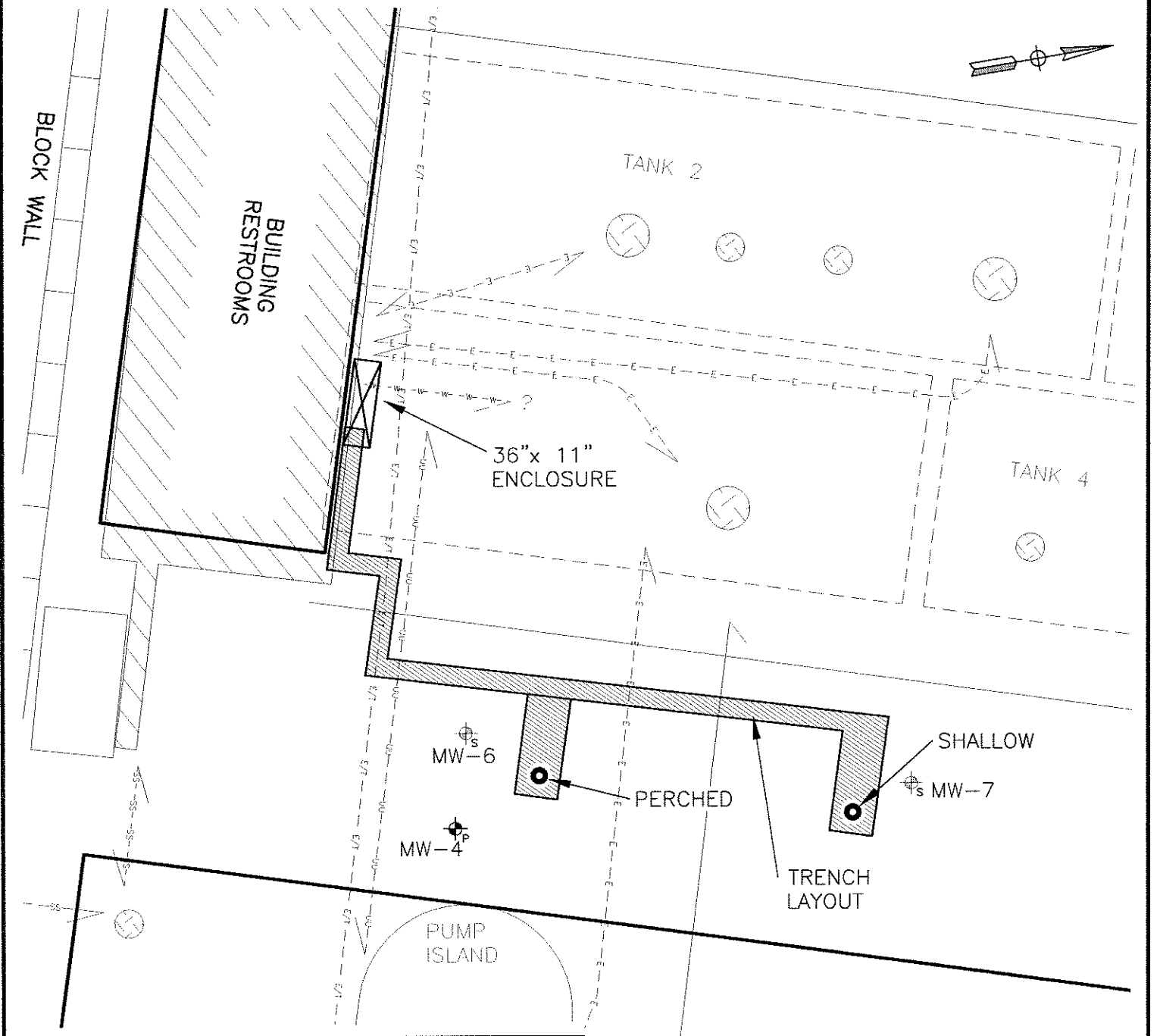
LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT	GROUNDWATER MONITORING REPORT	BY	RJM	FIGURE
	CLIENT	HUMBOLDT PETROLEUM INC.	DATE	5/17/05	3
	LOCATION	FORTUNA SHELL	CHECK		JOB NO.
		SPARGE WELL LOCATION	SCALE	1"= 5'	4563.01



LEGEND

- PERCHED MONITORING WELL
- SHALLOW MONITORING WELL
- SPARGE WELL LOCATION
- ELECTRIC (NORCAL GEO. CONSULTANTS INC.)
- ELECTRIC/WATER (NORCAL GEO. CONSULTANTS INC.)
- STORM DRAIN (NORCAL GEO. CONSULTANTS INC.)
- SANITARY SEWER (NORCAL GEO. CONSULTANTS INC.)

0 2.5' 5'

SCALE: 1"=5'

May 17,2005-10:15am
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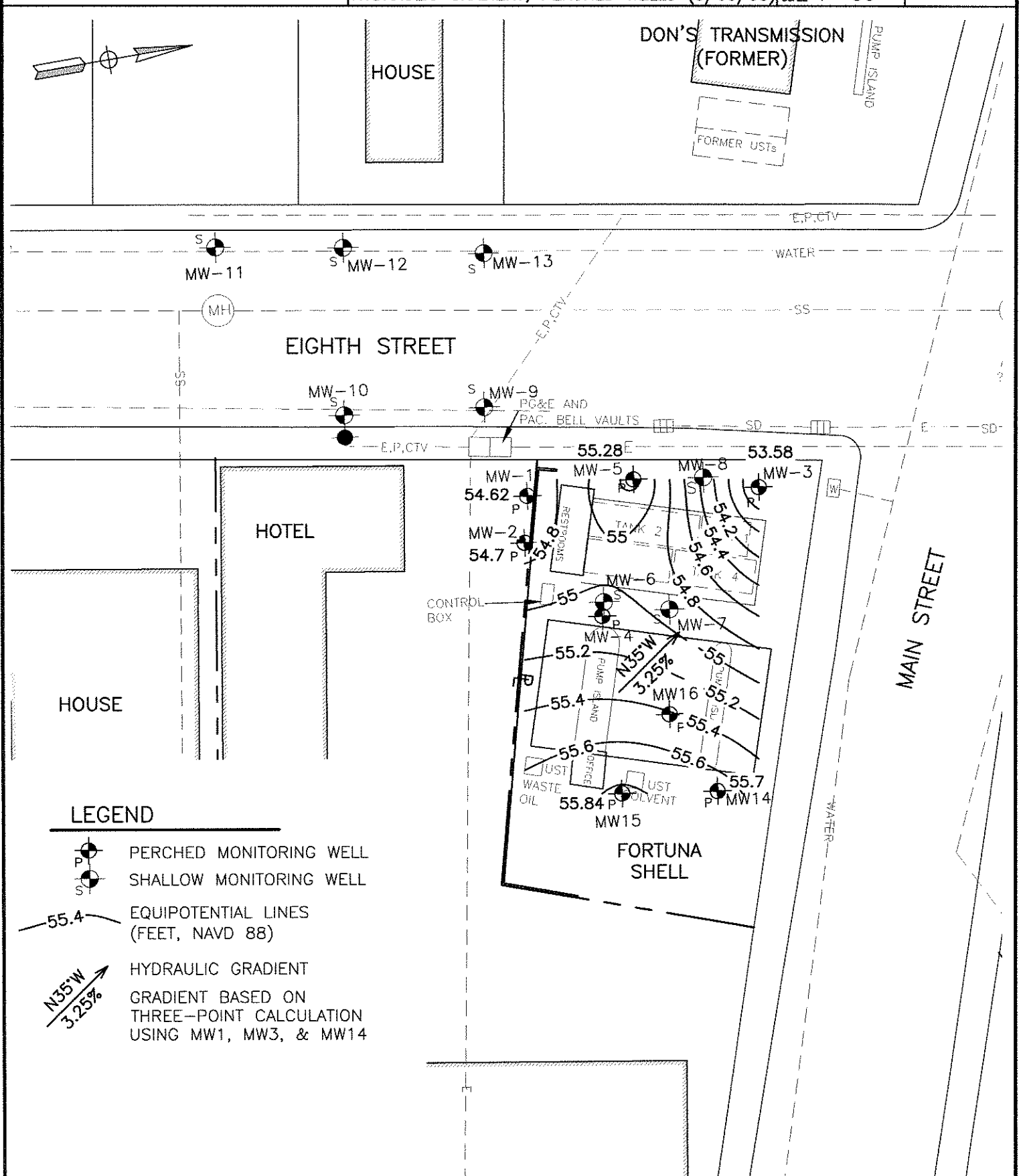
LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY RJM	FIGURE 4
	CLIENT HUMBOLDT PETROLEUM, INC.	DATE 5/17/05	
	LOCATION FORTUNA SHELL, 819 MAIN ST.	CHECK	JOB NO. 4563.01
	HYDRAULIC GRADIENT, PERCHED WELLS (5/03/05)	SCALE 1"=30'	



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LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY RJM	FIGURE 5
	CLIENT HUMBOLDT PETROLEUM, INC.	DATE 5/17/05	
	LOCATION FORTUNA SHELL, 819 MAIN ST.	CHECK	JOB NO. 4563.01
	HYDRAULIC GRADIENT, SHALLOW WELLS (5/03/05)	SCALE 1"=30'	

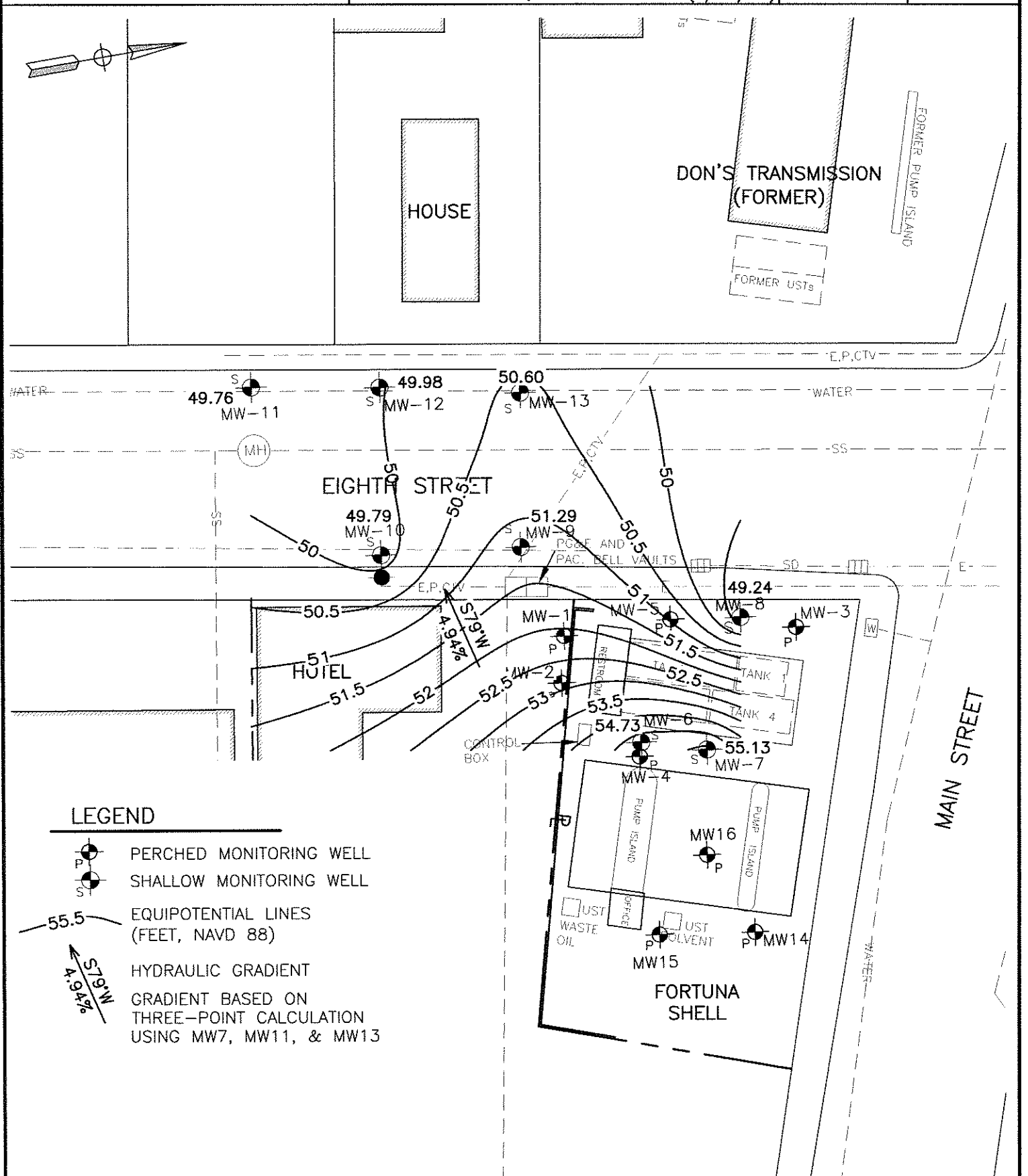

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TABLE 1: HISTORIC HYDRAULIC GRADIENTS
Fortuna Shell, 819 Main St. Fortuna, California
LOP No. 12672; LACO Project No. 4563.01

	Shallow Aquifer		Perched Aquifer	
Date	Gradient Direction	Gradient Slope (%)	Gradient Direction	Gradient Slope (%)
9/2000	S2°E	0.15	S48°W	1.1
10/2000	S2°E	0.13	S45°E	1.12
11/2000	S22°E	0.04	S34°W	1.5
12/12/2000	S56°W	6.1	---	---
1/8/2000	S64°W	10.7	---	---
3/12/2001	S37°W	14.0	---	---
6/2001	S43°W	14.3	S31°W	2.9
7/2001	S43°W	13.3	S34°W	2.0
8/2001	S71°E	24.3	S27°W	1.4
9/2001	S54°W	16.38	S29°W	1.2
10/2001	S54°W	16.28	S37°W	1.2
11/2001	S54°W	14.96	S32°W	0.8
2/5/2002	N35°W	7.4	N19°E	2.2
5/9/2002	S49°W	14.35	S62°W	1.9
8/15/2002	S30°W	5.5	S24°W	11.7
12/20/2002	S56°W	7.4	S22°W	1.8
2/11/2003	S47°W	7.0	N8°E	2.4
5/13/2003	---	---	N19°E	2.1
8/14/2003	S13°W	4.5	S1°W	2.3
11/4/2003	S24°W	22.7	S3°E	2.3
2/2/2004	S37°W	2.2	N13°E	2.7
5/4/2004	S26°W	2.8	N62°W	2.3
8/3/2004	N65°W	2.4	N79°W	2.2
11/10/2004	N88°W	4.0	N81°W	0.5
2/1/2005	S86°W	4.5	N47°W	2.0
5/3/2005	S79°W	4.9	N35°W	3.2

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell, 819 Main St, Fortuna, California
LOP No. 12672; LACO Project No. 4563.01

WELL Sample Date	Groundwater Measurements: Well Head Elevation (feet NAVD 88)	Hydraulic Head Elevation (feet NAVD 88)	Depth to Water (feet)	Analytical Results: TPHg (µg/L)	TPHd (µg/L)	TPHmo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TBA (µg/L)	TAME (µg/L)	ETBE (µg/L)	DIPE (µg/L)	Other Analytes (µg/L)
MW1	59.67	**Screened Interval = 6-10 feet bgs**														
8/4/2000		53.51	6.16	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		**53.41**	**6.26**	**3,600**	**230**	ND<170	**42**	**5**	**27**	**20.1**	**500**	ND<20	**56**	ND<1.0	ND<1.0	
9/8/2000		52.64	7.03	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		52.15	7.52	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		**53.91**	**5.76**	**2,900**	**210**	ND<170	**9.2**	**1.4**	**8.1**	**5.5**	**250**	**120**	**27**	ND<1.0	ND<1.0	
12/12/2000		54.60	5.07	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		54.83	4.84	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		**54.83**	**4.84**	**2,800**	**570**	ND<170	**23**	**2.4**	**12**	**4.8**	**74**	ND<20	ND<2.0	ND<2.0	ND<2.0	
3/12/2001		55.47	4.20	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		54.87	4.80	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		**54.69**	**4.98**	**3,400**	**420**	ND<200	**37**	**3.9**	**19**	**7.52**	**120**	ND<10	ND<1.0	ND<1.0	ND<1.0	
6/8/2001		54.42	5.25	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		53.69	5.98	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		**53.21**	**6.46**	**2,300**	**190**	ND<170	**25**	**3.6**	**18**	**9.42**	**130**	ND<5.0	ND<1.0	ND<1.0	ND<1.0	
9/17/2001		52.69	6.98	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		52.15	7.52	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		**52.13**	**7.54**	**4,300**	**350**	ND<170	**25**	**2.2**	**15**	**7.5**	**94**	**53**	**9.2**	ND<1.0	ND<1.0	
2/5/2002		**55.60**	**4.07**	**2,100**	**99**	---	**16**	**3.9**	**24**	**8.5**	**20**	**25**	**2.6**	ND<1.0	ND<1.0	
5/9/2002		**54.85**	**4.82**	**2,300**	**130**	ND<170	**18**	**2.6**	**16**	**3.6**	**8.7**	ND<5.0	**1.0**	ND<1.0	ND<1.0	
8/15/2002		**53.11**	**6.56**	**1,500**	**130**	ND<170	**6.6**	**1.2**	**7.3**	**8.4**	**9.9**	ND<5.0	ND<1.0	ND<1.0	ND<1.0	
12/20/2002		**56.52**	**3.15**	**410**	ND<50	ND<170	ND<50	ND<50	ND<50	**0.50**	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0	
2/11/2003		**55.42**	**4.25**	**1,700**	**140**	ND<170	**13**	**4.6**	**17**	**4.8**	**15**	ND<20	**1.1**	ND<1.0	ND<1.0	**1,2-EDB=1.1**
5/13/2003		**54.79**	**4.88**	**320**	ND<50	ND<170	**3.1**	**1.5**	**5.9**	**2.4**	**1.8**	ND<20	ND<1.0	ND<1.0	ND<1.0	
8/14/2003		**52.47**	**7.20**	**1,700**	ND<50	ND<170	**7.0**	**1.3**	**7.7**	**3.5**	**13**	ND<20	**1.4**	ND<1.0	ND<1.0	
11/4/2003		**51.72**	**7.95**	**4,500**	**320**	ND<170	**31**	**3.8**	**17**	**12**	ND<70	ND<20	**2.8**	ND<1.0	ND<1.0	
2/2/2004		**56.71**	**2.96**	**80**	ND<50	ND<170	ND<50	ND<50	ND<50	ND<50	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/4/2004		**54.27**	**5.40**	**130**	ND<50	ND<170	ND<50	ND<0.50	ND<50	ND<0.50	ND<1.0	ND<0.10	ND<1.0	ND<1.0	ND<1.0	
8/3/2004		**52.12**	**7.55**	**1,400**	**180**	ND<170	**4.7**	**0.87**	**3.7**	**1.5**	ND<6.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/10/2004		**54.27**	**5.40**	**61**	ND<50	ND<170	ND<50	ND<0.50	ND<50	ND<0.50	ND<1.0	ND<0.10	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		**55.07**	**4.60**	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<50	ND<0.50	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		**54.62**	**5.05**	**3,900**	**370**	ND<170	**4.4**	**3.7**	**18**	**6.78**	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
MW2	59.45	**Screened Interval = 5-10 feet bgs**														
8/4/2000		53.49	5.96	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		**53.45**	**6.00**	**8,000**	**330**	ND<170	**160**	**8.6**	**34**	**49**	**790**	ND<50	**82**	ND<2.5	ND<2.5	
9/8/2000		52.62	6.83	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		52.12	7.33	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		**53.98**	**5.47**	**8,600**	**510**	ND<170	**130**	**6.2**	**25**	**32**	**680**	**420**	**86**	ND<2.5	ND<2.5	
12/12/2000		54.59	4.86	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		54.87	4.58	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		**54.68**	**4.77**	**8,200**	**590**	ND<170	**150**	**9.6**	**39**	**40**	**310**	ND<50	ND<5.0	ND<5.0	ND<5.0	
3/12/2001		55.04	4.41	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		54.91	4.54	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		**54.65**	**4.80**	**8,000**	**950**	ND<200	**110**	**6.9**	**30**	**32**	**280**	ND<25	ND<2.5	ND<2.5	ND<2.5	
6/8/2001		54.42	5.03	---	---	---	---	---	---	---	---	---	---	---	---	---
7/16/2001		53.75	5.70	---	---	---	---	---	---	---	---	---	---	---	---	---
8/7/2001		**53.23**	**6.22**	**5,900**	**300**	ND<170	**47**	**4.5**	**17**	**19**	**180**	ND<25	ND<2.5	ND<2.5	ND<2.5	
9/17/2001		52.74	6.71	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		52.25	7.20	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		**52.17**	**7.28**	**8,400**	**580**	ND<170	**100**	**8.7**	**33**	**33**	**160**	ND<50	**15**	ND<5.0	ND<5.0	

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell, 819 Main St, Fortuna, California
LOP No. 12672; LACO Project No. 4563.01

MW2 Continued																
2/5/2002		---	---	9,900	460	---	160	13	71	51	170	100	21	ND<3.0	ND<3.0	
5/9/2002		54.81	4.64	7,800	360	ND<170	100	8.6	44	37	54	ND<30	6.1	ND<3.0	ND<3.0	
8/15/2002		50.84	8.61	6,400	720	ND<170	110	11	42	44	65	ND<40	5.6	ND<4	ND<4	
12/20/2002		56.25	3.20	5,200	330	ND<170	20	ND<5.0	18	16	ND<20	ND<200	ND<10	ND<10	ND<10	
																1,2-EDB=1.1
2/11/2003		54.93	4.52	7,900	610	ND<170	100	10	50	49.3	ND<300	92	10	ND<1.0	ND<1.0	**1,2-DCA=1.9**
5/13/2003		55.39	4.06	6,200	600	ND<170	51	7.7	41	37.8	ND<100	ND<20	5.2	ND<1.0	ND<1.0	**1,2-DCA=1.2**
8/14/2003		52.40	7.05	9,400	810	ND<170	70	7.3	34	29.7	ND<180	31	7.6	ND<1.0	ND<1.0	
11/4/2003	Well was inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---	
2/2/2004		56.17	3.28	5,900	730	ND<170	21	5.4	27	20.3	ND<14	ND<10	1.1	ND<1.0	ND<1.0	
5/4/2004		54.20	5.25	7,000	500	ND<170	60	11	51	40	ND<45	ND<20	2.4	ND<1.0	ND<1.0	
8/3/2004		52.13	7.32	7,300	740	ND<170	47	7.9	39	31.3	ND<36	ND<10	1.8	ND<1.0	ND<1.0	
11/10/2004		54.14	5.31	6,300	980	ND<170	32	6.3	34	27.2	ND<15	ND<10	1.0	ND<1.0	ND<1.0	
2/1/2005		55.03	4.42	7,600	220	ND<170	34	6.3	41	35.6	ND<10	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		54.70	4.75	11,000	990	ND<170	30	5.7	33	26.3	ND<10	ND<15	1.1	ND<1.0	ND<1.0	
MW3	59.25	**Screened Interval = 5-12 feet bgs**														
8/4/2000		53.06	6.19	---	---	---	---	---	---	---	---	---	---	---	---	---
8/7/2000		53.11	6.14	2,300	74	ND<170	4.3	ND<4.0	ND<4.0	ND<4.0	5,600	2,500	550			
9/8/2000		52.58	6.67	---	---	---	---	---	---	---	---	---	---	---	---	---
10/12/2000				---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		53.46	5.79	2,000	59	ND<170	ND<2.0	ND<2.0	ND<2.0	ND<2.0	4,000	1,300	490	ND<5.0	ND<5.0	
12/12/2000		53.85	5.40	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		53.94	5.31	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		54.32	4.93	1,900	ND<50	ND<170	7.6	ND<5.0	ND<5.0	ND<5.0	2,000	ND<100	200	ND<10	ND<10	
3/12/2001		53.70	5.55	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		54.23	5.02	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		53.92	5.33	1,200	56	ND<200	1.4	ND<1.3	ND<1.3	ND<1.3	1100	270	130	ND<2.5	ND<2.5	
6/8/2001		53.68	5.57	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		53.16	6.09	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		52.95	6.30	740	ND<50	ND<170	5.1	ND<1.3	ND<1.3	ND<1.3	970	200	94	ND<2.5	ND<2.5	
9/17/2001		52.75	6.50	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		52.22	7.03	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		51.92	7.33	880	ND<50	ND<170	1.5	ND<1.0	ND<1.0	ND<1.0	1,100	160	99	ND<2.0	ND<2.0	
2/5/2002		54.58	4.67	600	ND<50	---	0.74	ND<0.50	ND<0.50	ND<0.50	740	310	86	2.2	ND<1.0	
5/9/2002		54.23	5.02	920	ND<50	ND<170	5.3	ND<0.50	0.81	ND<0.50	470	100	40	ND<1.0	ND<1.0	
8/15/2002		52.96	6.29	590	71	ND<170	6.3	0.56	0.95	1.8	420	150	30	1.1	ND<1.0	
12/20/2002		54.97	4.28	99	ND<50	ND<170	0.90	ND<0.50	ND<0.50	0.59	91	ND<70	4	ND<1.0	ND<1.0	
2/11/2003		54.54	4.71	740	ND<50	ND<170	2.8	1.1	ND<0.50	5.06	720	300	57	ND<1.0	ND<1.0	
5/13/2003		54.96	4.29	1,300	220	ND<170	25.0	4.3	1.2	22.9	680	300	60	ND<1.0	ND<1.0	
8/14/2003		52.36	6.89	820	95	ND<170	3.4	0.7	ND<0.50	3.9	1,000	180	73	ND<1.0	ND<1.0	
11/4/2003		51.79	7.46	650	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	1.54	940	78	65	1.2	ND<1.0	
2/2/2004		55.27	3.98	3,600	490	ND<170	26	1.4	0.81	6.4	180	79	15	ND<1.0	ND<1.0	
5/4/2004		53.84	5.41	2,200	310	ND<170	4.6	1.0	ND<0.50	2.58	81	ND<40	5.3	ND<1.0	ND<1.0	
8/3/2004		52.06	7.19	960	140	ND<170	0.68	ND<0.50	ND<0.50	1.32	220	42	14	ND<1.0	ND<1.0	
11/10/2004		53.31	5.94	910	190	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	290	ND<50	19	ND<1.0	ND<1.0	
2/1/2005		54.46	4.79	2,900	460	ND<170	8.4	0.89	0.56	3.5	44	ND<30	3.1	ND<1.0	ND<1.0	
5/3/2005		53.58	5.67	1,600	280	ND<170	1.1	ND<0.50	ND<0.50	1.29	23	ND<20	2.0	ND<1.0	ND<1.0	

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell, 819 Main St, Fortuna, California
LOP No. 12672; LACO Project No. 4563.01

MW4	59.96	Screened Interval = 5-10 feet bgs														
8/4/2000		53.73	6.23	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		**53.67**	**6.29**	**11,000**	**530**	ND<170	**900**	**32**	**69**	**159**	**620**		**45**	ND<1.0	ND<1.0	
9/8/2000		52.85	7.11	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		52.33	7.63	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		**53.87**	**6.09**	**6,400**	**61**	ND<170	**600**	**20**	**80**	**82.5**	**180**	ND<100	ND<5.0	ND<5.0	ND<5.0	
12/12/2000		54.67	5.29	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		54.72	5.24	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		**55.21**	**4.75**	**5,400**	**550**	ND<170	**540**	**12**	**47**	**38**	**140**	ND<100	ND<10	ND<10	ND<10	
3/12/2001		55.44	4.52	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		55.21	4.75	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		**54.96**	**5.00**	**6,200**	**920**	ND<200	**620**	**24**	**120**	**76.2**	**210**	ND<50	ND<5.0	ND<5.0	ND<5.0	
6/8/2001		54.84	5.12	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		54.04	5.92	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		**53.43**	**6.53**	**5,900**	**520**	**570**	**660**	**26**	**130**	**98.8**	**190**	ND<100	ND<10	ND<10	ND<10	
9/17/2001		52.96	7.00	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		52.39	7.57	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		**52.36**	**7.60**	**7,200**	**200**	ND<170	**670**	**30**	**100**	**77**	**120**	ND<100	ND<10	ND<10	ND<10	
2/5/2002		**55.56**	**4.40**	**4,800**	**83**	---	**340**	**14**	**48**	**27**	**100**	**32**	**5.8**	ND<3.0	ND<3.0	
5/9/2002		**55.47**	**4.49**	**3,800**	**260**	ND<170	**300**	**19**	**74**	**48.6**	**52**	ND<30	ND<3.0	ND<3.0	ND<3.0	
8/15/2002		**54.07**	**5.89**	**4,700**	**280**	ND<170	**350**	**21**	**82**	**46.7**	**81**	ND<50	ND<5.0	ND<5.0	ND<5.0	
12/20/2002		**55.80**	**4.16**	**6,900**	**260**	ND<170	**430**	**32**	**97**	**52**	ND<150	ND<1000	ND<50	ND<50	ND<50	
2/11/2003		**55.58**	**4.38**	**5,700**	**64**	ND<170	**430**	**24**	**57**	**55.9**	**500**	**230**	**28**	**1.1**	ND<1.0	**1,2-DCA=1.3**
5/13/2003		**54.91**	**5.05**	**5,500**	**500**	ND<170	**360**	**27**	**85**	**65.7**	ND<200	**47**	**8.1**	ND<1.0	ND<1.0	**1,2-DCA=1.0**
8/14/2003		**52.90**	**7.06**	**7,400**	**440**	ND<170	**480**	**22**	**79**	**47.4**	**120**	**51**	**5.6**	**1.1**	ND<1.0	
11/4/2003		**52.01**	**7.95**	**10,000**	**700**	ND<170	**600**	**35**	**110**	**71.8**	ND<150	ND<20	**4.4**	ND<1.0	ND<1.0	**1,2-DCA=1.0**
2/2/2004		**56.19**	**3.77**	**8,400**	**740**	ND<170	**450**	**27**	**85**	**63**	ND<150	ND<60	**4.6**	ND<1.0	ND<1.0	
5/4/2004		**54.77**	**5.19**	**3,500**	**120**	ND<170	**74**	**8.5**	**26**	**27.1**	ND<80	ND<50	**2.0**	ND<1.0	ND<1.0	
8/3/2004		**52.65**	**7.31**	**420**	ND<50	ND<170	**4.3**	**0.66**	**2.1**	**1.9**	ND<1.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
11/10/2004		**54.16**	**5.80**	**190**	ND<50	ND<170	**1.1**	ND<0.50	**0.95**	**0.99**	ND<2.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		**55.48**	**4.48**	**170**	ND<50	ND<170	**0.71**	ND<0.50	ND<0.50	ND<0.50	ND<4.0	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		**55.35**	**4.61**	**300**	ND<50	ND<170	**1.3**	ND<0.50	ND<0.50	**0.55**	**1.8**	ND<15	ND<1.0	ND<1.0	ND<1.0	

MW5	59.47	Screened Interval = 5-10 feet bgs													
8/4/2000		53.10	6.37	---	---	---	---	---	---	---	---	---	---	---	---
8/7/2000		**53.31**	**6.16**	**23,000**	**1,900**	ND<170	**3,600**	**61**	**590**	**1,556**	**4,500**	ND<500	ND<25	ND<25	ND<25
9/8/2000		53.02	6.45	---	---	---	---	---	---	---	---	---	---	---	---
10/12/2000		52.47	7.00	---	---	---	---	---	---	---	---	---	---	---	---
11/3/2000		**53.59**	**5.88**	**17,000**	**1,200**	**930**	**2,500**	**60**	**800**	**940**	**2,300**	ND<500	ND<25	ND<25	ND<25
12/12/2000		54.28	5.19	---	---	---	---	---	---	---	---	---	---	---	---
1/8/2001		54.26	5.21	---	---	---	---	---	---	---	---	---	---	---	---
2/6/2001		**54.45**	**5.02**	**17,000**	**890**	ND<170	**2,600**	**49**	**370**	**320**	**2,300**	ND<500	ND<50	ND<50	ND<50
3/12/2001		54.83	4.64	---	---	---	---	---	---	---	---	---	---	---	---
4/20/2001		54.76	4.71	---	---	---	---	---	---	---	---	---	---	---	---
5/8/2001		**54.56**	**4.91**	**14,000**	**1,300**	ND<200	**2,300**	**48**	**510**	**555**	**1,700**	ND<500	ND<25	ND<25	ND<25
6/8/2001		54.45	**5.02**	---	---	---	---	---	---	---	---	---	---	---	---
7/16/2001		53.68	**5.79**	---	---	---	---	---	---	---	---	---	---	---	---
8/7/2001		**53.33**	**6.14**	**14,000**	**1,100**	**330**	**2,200**	**52**	**390**	**420**	**2,000**	ND<250	ND<25	ND<25	ND<25
9/17/2001		52.98	6.49	---	---	---	---	---	---	---	---	---	---	---	---
10/24/2001		52.48	6.99	---	---	---	---	---	---	---	---	---	---	---	---

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell, 819 Main St, Fortuna, California
LOP No. 12672; LACO Project No. 4563.01

MW5 Continued																
11/6/2001		**52.34**	**7.13**	**20,000**	**1,100**	**420**	**2,500**	**48**	**550**	**493**	**2,300**	**550**	**21**	ND<20	ND<20	
2/5/2002		**55.26**	**4.21**	**15,000**	**660**	---	**2,100**	**42**	**390**	**391**	**2,200**	**890**	**48**	ND<20	ND<20	
5/9/2002		**54.76**	**4.71**	**10,000**	**810**	**210**	**1,400**	**33**	**260**	**270**	**790**	ND<200	**21**	ND<20	ND<20	
8/15/2002		**53.68**	**5.79**	**13,000**	**1,300**	**960**	**1,200**	**33**	**210**	**280**	**910**	ND<200	**24**	ND<20	ND<20	
12/20/2002		**55.23**	**4.24**	**40,000**	**6,900**	**13,000**	**1,800**	**51**	**460**	**380**	ND<1800	ND<1000	ND<50	ND<50	ND<50	
																1,2-DCA=2.7
2/11/2003		**56.06**	**3.41**	**13,000**	**880**	**1,200**	**1,500**	**34**	**200**	**239.7**	**710**	**230**	**25**	**3.5**	ND<1.0	**1,2-EDB=1.0**
5/13/2003		**54.79**	**4.68**	**13,000**	**1,100**	**1,100**	**1,000**	**33**	**230**	**230**	**590**	ND<1000	ND<50	ND<50	ND<50	
8/14/2003		**53.09**	**6.38**	**18,000**	**1,500**	**610**	**1,700**	**44**	**340**	**240**	**760**	ND<1000	ND<50	ND<50	ND<50	
11/4/2003		**52.25**	**7.22**	**52,000**	**37,000**	**56,000**	**1,500**	**33**	**340**	**259.4**	ND<1200	ND<200	**17**	ND<10	ND<10	
2/2/2004		**56.17**	**3.30**	**19,000**	**2,200**	**300**	**1,300**	**29**	**240**	**208.1**	**680**	**99**	**16**	ND<5.5	ND<1.0	**1,2-DCA=2.3**
5/4/2004		**54.59**	**4.88**	**31,000**	**6,500**	**5,100**	**1,500**	**37**	**310**	**217.4**	ND<1000	**82**	**14**	**2.3**	ND<10	
8/3/2004		**52.92**	**6.55**	**21,000**	**2,900**	**1,100**	**1,600**	**32**	**220**	**160**	**530**	ND<500	ND<50	ND<50	ND<50	
11/10/2004		**54.14**	**5.33**	**140,000**	**25,000**	**12,000**	**830**	**20**	**50**	**401**	ND<850	**59**	**8**	**2**	ND<1.0	
2/1/2005		**54.86**	**4.61**	**23,000**	**6,000**	**3,200**	**910**	**24**	**130**	**134.1**	**400**	**34**	**8.1**	**1.4**	ND<1.0	
5/3/2005		**55.28**	**4.19**	**21,000**	**3,900**	**2,000**	**640**	**18**	**180**	**112.5**	**210**	**75**	**6.9**	**1.2**	ND<1.0	
MW6	60.06	**Screened Interval = 12-20 feet bgs**														
8/4/2000		52.86	7.20	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		**52.14**	**7.92**	**1,200**	**140**	ND<170	**2.6**	ND<2.5	**1.1**	**1.9**	**820**			**5.4**	**3.0**	
9/8/2000		51.64	8.42	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		50.96	9.10	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		**51.51**	**8.55**	**670**	ND<50	ND<170	**1.6**	ND<0.5	ND<0.5	**0.65**	**900**	**130**	**10**	**8.8**	**5.0**	**1,2 DCA=8.5**
12/12/2000		53.24	6.82	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		52.99	7.07	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		**53.55**	**6.51**	**900**	ND<50	ND<170	ND<2.5	ND<2.5	ND<2.5	ND<2.5	**1,200**	ND<50	**35**	**7.8**	ND<5.0	**1,2 DCA=7.3**
3/12/2001		52.75	7.31	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		55.35	4.71	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		**52.49**	**7.57**	**570**	**51**	ND<200	**1.5**	ND<2.5	ND<2.5	ND<2.5	**860**	**68**	**37**	**5.0**	ND<2.5	**1,2 DCA=4.6**
6/8/2001		52.34	7.72	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		52.24	7.82	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		**51.91**	**8.15**	**680**	ND<50	ND<170	ND<1.3	ND<1.3	ND<1.3	ND<1.3	**1,100**	**200**	**38**	**6.4**	**2.6**	**1,2 DCA=4.9**
9/17/2001		51.59	8.47	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		51.06	9.00	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		**50.84**	**9.22**	**750**	ND<50	ND<170	ND<1.0	ND<1.0	ND<1.0	ND<1.0	**910**	**150**	**35**	**4.9**	**2.1**	**1,2 DCA=3.9**
2/5/2002		**54.17**	**5.89**	**710**	ND<50	---	ND<1.0	ND<1.0	ND<1.0	ND<1.0	**1,300**	**350**	**92**	**7.8**	**3.1**	**Pb Scavs=3.7**
5/9/2002		**53.79**	**6.27**	**630**	ND<50	---	ND<1.5	ND<1.5	ND<1.5	ND<1.5	**1,100**	**160**	**54**	**3.5**	ND<3.0	**Pb Scavs=3.5**
8/15/2002		**52.88**	**7.18**	**930**	ND<50	ND<170	ND<1.0	ND<1.0	ND<1.0	**1.7**	**980**	**160**	**54**	**5.1**	**2.3**	
12/20/2002		**54.47**	**5.59**	**910**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**1,200**	**480**	**64**	**4.9**	**2.7**	**1,2-DCA=4.0**
2/11/2003		**54.39**	**5.67**	**1,100**	ND<50	ND<170	**0.58**	ND<0.50	ND<0.50	ND<0.50	**1,300**	**450**	**74**	**5.2**	ND<4.0	**1,2-DCA=3.6**
5/13/2003		**54.53**	**5.53**	**380**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**960**	**180**	**62**	**3.6**	**1.5**	**1,2-DCA=3.1**
8/14/2003		**51.35**	**8.71**	**720**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**1,000**	**210**	**72**	**4.8**	**2.1**	**1,2-DCA=2.4**
11/4/2003		**49.54**	**10.52**	**670**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**1,000**	**190**	**58**	**3.5**	**1.7**	**1,2-DCA=2.3**
2/2/2004		**53.95**	**6.11**	**1,100**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**1,100**	**270**	**64**	ND<8.0	**2.0**	

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell, 819 Main St, Fortuna, California
LOP No. 12672; LACO Project No. 4563.01

MW6 Continued																
5/4/2004		**52.16**	**7.90**	**450**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**480**	**55**	**29**	**1.8**	ND<1.0	
8/3/2004		**50.44**	**9.62**	**160**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**180**	ND<22	**6.9**	ND<1.0	ND<1.0	
11/10/2004		**51.64**	**8.42**	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**30**	ND<10	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		**54.72**	**5.34**	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**21**	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		**54.73**	**5.33**	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**7**	ND<10	ND<1.0	ND<1.0	ND<1.0	
MW7	59.80	**Screened Interval = 10-15 feet bgs**														
8/4/2000		53.63	6.17	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		**53.60**	**6.20**	**3,700**	**190**	ND<170	**33**	**2.8**	**2**	**67.4**	**3,000**	**700**	**220**			
9/8/2000		52.97	6.83	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		52.35	7.45	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		**53.50**	**6.30**	**910**	**110**	ND<170	**2.2**	ND<1.0	**1.2**	**1.9**	**1,200**	**280**	**90**	**4.2**	ND<2.5	
12/12/2000		53.78	6.02	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		54.13	5.67	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		**54.39**	**5.41**	**1,700**	**170**	**280**	**5.2**	ND<5.0	ND<5.0	ND<5.0	**1,800**	**440**	**160**	ND<10	ND<10	
3/12/2001		54.73	5.07	---	---	---	---	---	---	---	---	---	---	---	---	
4/20/2001		54.61	5.19	---	---	---	---	---	---	---	---	---	---	---	---	
5/8/2001		**54.39**	**5.41**	**1,100**	**160**	ND<200	**6.6**	ND<5.0	ND<5.0	ND<5.0	**2,000**	**450**	**200**	ND<5.0	ND<5.0	
6/8/2001		54.17	**5.63**	---	---	---	---	---	---	---	---	---	---	---	---	
7/16/2001		54.00	**5.80**	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2001		**53.70**	**6.10**	**1,400**	ND<50	ND<170	**8.3**	ND<5.0	ND<5.0	ND<5.0	**2,100**	**670**	**180**	ND<10	ND<10	
9/17/2001		53.39	6.41	---	---	---	---	---	---	---	---	---	---	---	---	
10/24/2001		52.85	6.95	---	---	---	---	---	---	---	---	---	---	---	---	
11/6/2001		**52.63**	**7.17**	**1,400**	ND<50	ND<170	ND<1.5	ND<1.5	ND<1.5	ND<1.5	**1,800**	**430**	**150**	**4.6**	ND<3.0	
2/5/2002		**55.40**	**4.40**	**1,500**	ND<50	---	**31**	ND<1.5	ND<1.5	ND<1.5	**2,000**	**750**	**190**	**7.9**	**3.8**	**1,2-DCA=3.3**
5/9/2002		**54.88**	**4.92**	**1,100**	ND<50	ND<170	**51**	ND<2.5	ND<2.5	ND<2.5	**1,800**	**280**	**96**	ND<5.0	ND<5.0	
8/15/2002		**53.06**	**6.74**	**1,500**	**53**	ND<170	**4.6**	ND<1.5	ND<1.5	**2.6**	**1,500**	**290**	**110**	**5.3**	ND<3.0	
12/20/2002		**55.83**	**3.97**	**750**	ND<50	ND<170	**0.64**	ND<0.50	ND<0.50	**0.57**	**1,200**	**510**	**78**	**3.4**	ND<1.0	**1,2-DCA=1.3**
2/11/2003		**55.32**	**4.48**	**1,400**	ND<50	ND<170	**36**	**0.69**	**0.74**	**0.61**	**1,300**	**550**	**78**	ND<8.0	ND<4.0	**1,2-DCA=2.8**
5/13/2003		**53.78**	**6.02**	**620**	ND<50	ND<170	**18**	**0.64**	**0.79**	**1.21**	**1,000**	**190**	**64**	**3.4**	**1.9**	**1,2-DCA=2.7**
8/14/2003		**52.90**	**6.90**	**830**	**54**	ND<170	**1.4**	ND<0.50	ND<0.50	ND<0.50	**1,100**	**250**	**85**	**4.0**	**1.1**	
11/4/2003		**52.04**	**7.76**	**570**	ND<50	ND<170	**1.4**	ND<0.50	ND<0.50	ND<0.50	**780**	**140**	**48**	**2.7**	ND<1.0	**1,2-DCA=1.2**
2/2/2004		**55.82**	**3.98**	**1,300**	**50**	ND<170	**7.6**	ND<0.50	**0.56**	ND<0.50	**1,200**	**240**	**69**	**4.6**	ND<4.5	**1,2-DCA=2.2**
5/4/2004		**54.43**	**5.37**	**800**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**870**	ND<50	**67**	**2.8**	ND<1.0	
8/3/2004		**52.23**	**7.57**	**710**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**720**	**42**	**48**	**2.4**	ND<1.0	
11/10/2004		**53.67**	**6.13**	ND<50	**56**	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**7.0**	ND<10	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		**55.24**	**4.56**	**140**	ND<50	ND<170	**0.66**	ND<0.50	ND<0.50	ND<0.50	**130**	ND<10	**5.3**	ND<1.0	ND<1.0	
5/3/2005		**55.13**	**4.67**	**150**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**140**	ND<20	**7.3**	ND<1.0	ND<1.0	
MW8	59.58	**Screened Interval = 15-20 feet bgs**														
8/4/2000		52.05	7.53	---	---	---	---	---	---	---	---	---	---	---	---	
8/7/2000		**50.81**	**8.77**	**4,800**	**98**	ND<170	ND<10	ND<10	ND<10	ND<10	**11,000**	**2,100**	**36**	**54**		**1,2 DCA=42**
9/8/2000		51.60	7.98	---	---	---	---	---	---	---	---	---	---	---	---	
10/12/2000		51.17	8.41	---	---	---	---	---	---	---	---	---	---	---	---	
11/3/2000		**52.58**	**7.00**	**3,200**	**65**	ND<170	ND<4.0	ND<4.0	ND<4.0	ND<4.0	**7,800**	**1,300**	**50**	**56**	ND<10	
12/12/2000		52.82	6.76	---	---	---	---	---	---	---	---	---	---	---	---	
1/8/2001		52.77	6.81	---	---	---	---	---	---	---	---	---	---	---	---	
2/6/2001		**53.29**	**6.29**	**5,700**	ND<50	ND<170	ND<10	ND<10	ND<10	ND<10	**8,000**	**1,100**	**61**	**47**	ND<20	
3/12/2001		53.66	5.92	---	---	---	---	---	---	---	---	---	---	---	---	

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell, 819 Main St, Fortuna, California
LOP No. 12672; LACO Project No. 4563.01

MW8 Continued																	
4/20/2001		53.26	6.32	---	---	---	---	---	---	---	---	---	---	---	---		
5/8/2001		52.85	6.73	4,600	ND<50	ND<200	ND<6.3	ND<6.3	ND<6.3	ND<6.3	6,900	620	83	35	ND<13		
6/8/2001		52.70	6.88	---	---	---	---	---	---	---	---	---	---	---	---		
7/16/2001		52.58	7.00	---	---	---	---	---	---	---	---	---	---	---	---		
8/7/2001		51.61	7.97	4,700	ND<50	ND<170	ND<13	ND<13	ND<13	ND<13	7,600	ND<250	120	41	ND<25		
9/17/2001		50.80	8.78	---	---	---	---	---	---	---	---	---	---	---	---		
10/24/2001		50.28	9.30	---	---	---	---	---	---	---	---	---	---	---	---		
11/6/2001		50.68	8.90	4,800	ND<50	ND<170	ND<10	ND<10	ND<10	ND<10	7,000	920	98	37	ND<20		
2/5/2002		53.62	5.96	2,600	ND<50	---	ND<5.0	ND<5.0	ND<5.0	ND<5.0	6,200	860	170	37	ND<10		
5/9/2002		53.05	6.53	2,800	ND<50	ND<170	ND<5.0	ND<5.0	ND<5.0	ND<5.0	6,500	850	130	24	ND<10		
8/15/2002		52.25	7.33	4,400	ND<50	ND<170	ND<5.0	ND<5.0	ND<5.0	ND<5.0	5,600	820	160	33	ND<10		
12/20/2002		53.52	6.06	3,100	ND<50	ND<170	0.63	ND<0.50	ND<0.50	0.62	5,700	ND<6000	160	31	4	1,2-DCA=3.0	
2/11/2003		54.41	5.17	4,500	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6,200	1,800	110	29.0	4.0	1,2-DCA=3.7	
5/13/2003		53.56	6.02	950	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,500	1,100	140	20.0	2.5	1,2-DCA=3.0	
8/14/2003		50.53	9.05	1,300	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,600	1,100	150	24.0	3.2	1,2-DCA=2.2	
11/4/2003		50.70	8.88	1,500	ND<50	ND<170	1.5	ND<0.50	0.51	ND<0.50	4,700	1,100	130	21	2.9	1,2-DCA=2.3	
2/2/2004		53.82	5.76	4,200	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,700	1,000	150	21	3.1	1,2-DCA=3.0	
5/4/2004		52.56	7.02	2,900	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,300	1,100	140	20	3.1		
8/3/2004		49.60	9.98	3,000	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4,100	920	110	17	2.7		
11/10/2004		49.26	10.32	3,100	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3,500	810	110	14	ND<4.0		
2/1/2005		49.74	9.84	2,600	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3,500	640	130	14	ND<4.0	1,2-DCA=2.9	
5/3/2005		49.24	10.34	1,900	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3,300	890	ND<200	12	2.2	1,2-DCA=1.8	
MW9	59.35	**Screened Interval = 12.5-15.5 feet bgs**															
11/6/2001		46.34	13.01	160	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	210	ND<5.0	17	ND<1.0	ND<1.0		
2/5/2002		52.11	7.24	92	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	210	ND<5.0	20	ND<1.0	ND<1.0		
5/9/2002		49.62	9.73	88	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	180	ND<5.0	13	ND<1.0	ND<1.0		
8/15/2002		49.90	9.45	100	ND<50	ND<170	ND<0.50	ND<0.50	0.69	1.8	81	ND<5.0	7.1	ND<1.0	ND<1.0		
12/20/2002		51.46	7.89	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	0.53	30	ND<20	1.8	ND<1.0	ND<1.0		
2/11/2003		53.66	5.69	51	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	29	ND<20	1.8	ND<1.0	ND<1.0		
5/13/2003		52.43	6.92	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	ND<20	ND<1.0	ND<1.0	ND<1.0		
8/14/2003		49.68	9.67	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	12	ND<20	1.1	ND<1.0	ND<1.0		
11/4/2003		49.12	10.23	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21	ND<20	1.5	ND<1.0	ND<1.0		
2/2/2004		52.79	6.56	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	ND<10	ND<1.0	ND<1.0	ND<1.0		
5/4/2004		51.06	8.29	76	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	7.8	ND<10	ND<1.0	ND<1.0	ND<1.0		
8/3/2004		49.48	9.87	65	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	5.1	ND<10	ND<1.0	ND<1.0	ND<1.0		
11/10/2004		50.28	9.07	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.8	ND<10	ND<1.0	ND<1.0	ND<1.0		
2/1/2005		51.69	7.66	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.3	ND<10	ND<1.0	ND<1.0	ND<1.0		
5/3/2005		51.29	8.06	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	4.1	ND<10	ND<1.0	ND<1.0	ND<1.0		
MW10	59.19	**Screened Interval = 12-15 feet bgs**															
11/6/2001		48.64	10.55	61	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	82	17	2.9	ND<1.0	ND<1.0		
2/5/2002		52.12	7.07	55	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	47	11	ND<1.0	ND<1.0	ND<1.0		
5/9/2002		51.17	8.02	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	34	ND<5.0	ND<1.0	ND<1.0	ND<1.0		
8/15/2002		48.04	11.15	87	ND<50	ND<170	ND<0.50	ND<0.50	1.3	3.4	41	ND<5.0	ND<1.0	ND<1.0	ND<1.0		
12/20/2002		51.68	7.51	53	190	2,800	ND<0.50	ND<0.50	ND<0.50	ND<0.50	63	ND<20	2.2	ND<1.0	ND<1.0		
2/11/2003		45.71	13.48	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	44	ND<20	1.4	ND<1.0	ND<1.0		
5/13/2003		48.49	10.70	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	15	ND<20	ND<1.0	ND<1.0	ND<1.0		
8/14/2003		47.55	11.64	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	38	ND<20	1.9	ND<1.0	ND<1.0		

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell, 819 Main St, Fortuna, California
LOP No. 12672; LACO Project No. 4563.01

MW10 Continued															
11/4/2003		46.54	12.65	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	45	ND<20	2.3	ND<1.0	ND<1.0
2/2/2004		48.11	11.08	86	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	52	ND<20	2.5	ND<1.0	ND<1.0
5/4/2004		47.69	11.50	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	15	ND<10	ND<1.0	ND<1.0	ND<1.0
8/3/2004		46.27	12.92	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	17	ND<10	ND<1.0	ND<1.0	ND<1.0
11/10/2004		46.58	12.61	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	28	ND<10	1.4	ND<1.0	ND<1.0
2/1/2005		50.36	8.83	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	11	ND<10	ND<1.0	ND<1.0	ND<1.0
5/3/2005		49.79	9.40	ND<50	ND<50	210	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9	ND<10	ND<1.0	ND<1.0	ND<1.0
MW11	59.21	**Screened Interval = 12.5-15.5 feet bgs**													
11/6/2001		47.85	11.36	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	10	ND<50	ND<1.0	ND<1.0	ND<1.0
2/5/2002		50.97	8.24	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	6.3	ND<50	ND<1.0	ND<1.0	ND<1.0
5/9/2002		50.45	8.76	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.1	ND<50	ND<1.0	ND<1.0	ND<1.0
8/15/2002		48.00	11.21	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	0.52	1.2	0.9	ND<5.0	ND<1.0	ND<1.0	ND<1.0
12/20/2002		51.92	7.29	ND<50	ND<50	240	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.4	ND<20	ND<1.0	ND<1.0	ND<1.0
2/11/2003		50.79	8.42	ND<50	ND<50	230	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.8	ND<20	ND<1.0	ND<1.0	ND<1.0
5/13/2003		51.24	7.97	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<20	ND<1.0	ND<1.0	ND<1.0
8/14/2003		48.11	11.10	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.1	ND<20	ND<1.0	ND<1.0	ND<1.0
11/4/2003		45.99	13.22	ND<50	ND<50	270	ND<0.50	ND<0.50	ND<0.50	ND<0.50	9.2	ND<20	ND<1.0	ND<1.0	ND<1.0
2/2/2004		51.18	8.03	52	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	18	ND<10	ND<1.0	ND<1.0	ND<1.0
5/4/2004		50.04	9.17	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2.7	ND<10	ND<1.0	ND<1.0	ND<1.0
8/3/2004		47.41	11.80	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.8	ND<10	ND<1.0	ND<1.0	ND<1.0
11/10/2004		49.59	9.62	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1.7	ND<10	ND<1.0	ND<1.0	ND<1.0
2/1/2005		50.38	8.83	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.7	ND<10	ND<1.0	ND<1.0	ND<1.0
5/3/2005		49.76	9.45	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	3.0	ND<10	ND<1.0	ND<1.0	ND<1.0
MW12	59.09	**Screened Interval = 12.5-15 feet bgs**													
11/6/2001		48.05	11.04	1,700	ND<50	ND<170	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,400	250	51	11	ND<1.0
2/5/2002	Well was inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---
5/9/2002		50.67	8.42	1,300	ND<50	ND<170	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,900	110	75	6.3	ND<5.0
8/15/2002		48.97	10.12	1,800	ND<50	ND<170	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,300	96	92	9.4	ND<5.0
12/20/2002		52.42	6.67	1,800	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	2,600	430	94	9.0	3.3
2/11/2003	Well was inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---
5/13/2003		51.41	7.68	470	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,400	94	72	5.0	1.7
8/14/2003		48.71	10.38	740	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,600	76	82	6.6	2.3
11/4/2003		48.20	10.89	840	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,600	ND<50	68	4.7	1.9
2/2/2004		51.69	7.40	1,500	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,700	ND<60	72	5.6	2.3
5/4/2004		50.28	8.81	1,200	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,400	ND<45	69	4.5	1.8
8/3/2004		48.34	10.75	2,100	76	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,300	110	96	9.5	2.7
11/10/2004		49.78	9.31	1,200	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	1,200	45	47	3.4	1.6
2/1/2005		50.58	8.51	990	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	950	56	40	3.4	1.5
5/3/2005		49.98	9.11	640	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	720	ND<15	34	3.2	1.6
MW13	58.86	**Screened Interval = 12.5-15 feet bgs**													
11/6/2001		48.82	10.04	2,000	ND<50	ND<170	ND<2.5	ND<2.5	ND<2.5	ND<2.5	2,800	330	110	9.8	ND<5.0
2/5/2002		51.58	7.28	1,300	ND<50	---	ND<1.5	ND<1.5	ND<1.5	ND<1.5	2,800	370	160	11.0	4.0
5/9/2002	Well was inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---
8/15/2002		51.01	7.85	1,000	ND<50	ND<170	ND<1.0	ND<1.0	ND<1.0	1.3	1,200	51	70	5.7	ND<2.0
12/20/2002		53.68	5.18	ND<50	54	570	ND<0.50	1.0	ND<0.50	ND<0.50	38	ND<20	1.8	ND<1.0	ND<1.0
2/11/2003	Well was inaccessible		---	---	---	---	---	---	---	---	---	---	---	---	---
5/13/2003		52.06	6.80	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	21	ND<20	1.9	ND<1.0	ND<1.0
8/14/2003		49.48	9.38	160	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	260	ND<20	13	ND<1.0	ND<1.0
11/4/2003		49.12	9.74	170	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	210	ND<20	13	ND<1.0	ND<1.0
2/2/2004		52.09	6.77	330	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	360	ND<20	13	ND<2.5	ND<1.0
5/4/2004		50.89	7.97	270	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	280	ND<10	12	ND<2.5	ND<1.0

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell, 819 Main St, Fortuna, California
LOP No. 12672; LACO Project No. 4563.01

MW13 Continued																
8/3/2004		**49.13**	**9.73**	**960**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**820**	ND<100	**34**	**2.2**	**1.3**	
11/10/2004		**50.52**	**8.34**	**400**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**370**	ND<25	**16**	ND<2.0	ND<1.0	
2/1/2005		**51.10**	**7.76**	**270**	ND<50	**270**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**260**	ND<40	**9.5**	ND<1.0	ND<1.0	
5/3/2005		**50.60**	**8.26**	**63**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**63**	ND<10	**1.7**	ND<1.0	ND<1.0	
MW14	61.04	**Screened Interval = 5-10 feet bgs**														
11/10/2004		**53.89**	**7.15**	**1,100**	**150**	ND<170	**0.62**	ND<0.50	**1.2**	ND<0.50	ND<30	ND<20	**1.7**	ND<1.0	ND<1.0	
2/1/2005		**55.76**	**5.28**	**580**	**120**	ND<170	**0.77**	ND<0.50	**0.65**	ND<0.50	ND<15	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		**55.70**	**5.34**	**1,000**	**140**	ND<170	**1.3**	**0.55**	**1.3**	**0.59**	**7.9**	ND<10	**1.2**	ND<1.0	ND<1.0	
MW15	60.80	**Screened Interval = 5-10 feet bgs**														
11/10/2004		**54.37**	**6.43**	**1,600**	**90**	ND<170	**97**	**2.7**	**15**	**6.3**	**70**	ND<40	**2.6**	ND<1.0	ND<1.0	
2/1/2005		**56.34**	**4.46**	**1,100**	**120**	ND<170	**40**	**1.4**	**8.9**	**3.4**	ND<30	ND<10	ND<1.0	ND<1.0	ND<1.0	
5/3/2005		**55.84**	**4.96**	**2,200**	**170**	ND<170	**75**	**2.4**	**15**	**5.74**	ND<70	ND<20	**1.9**	ND<1.0	ND<1.0	
MW16	60.24	**Screened Interval = 5-10 feet bgs**														
11/10/2004		**54.45**	**5.79**	**3,900**	**200**	ND<170	**480**	**13**	**22**	**31.9**	**500**	**61**	**12**	**5.2**	ND<1.0	
2/1/2005		**55.75**	**4.49**	**5,600**	**340**	ND<170	**580**	**16**	**31**	**40.8**	**490**	**25**	**13**	**5.5**	ND<1.0	
5/3/2005		**55.69**	**4.55**	**7,900**	**370**	ND<170	**580**	**15**	**35**	**33.7**	**470**	**300**	**14**	**4.3**	ND<1.0	
MW17S	56.96	**Screened Interval = 22.5-24.5 feet bgs**														
11/10/2004		**35.70**	**21.26**	**64**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**33**	ND<35	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		**34.71**	**22.25**	**180**	**70**	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**180**	ND<50	ND<1.0	ND<1.0	**1.2**	
5/3/2005		**35.13**	**21.83**	**320**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**300**	ND<15	**2.1**	**1.7**	**1.8**	
MW17D	56.95	**Screened Interval = 26-28 feet bgs**														
11/10/2004		**32.42**	**24.53**	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**5.0**	ND<20	ND<1.0	ND<1.0	ND<1.0	
2/1/2005		**32.76**	**24.19**	**120**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**110**	**55**	ND<1.0	ND<1.0	**2.0**	
5/3/2005		**31.95**	**25.00**	**130**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**100**	ND<20	ND<1.0	ND<1.0	**2.0**	
Field Duplicate																
8/7/01 (MW-5)		---	---	**14,000**	---	---	**2,100**	**52**	**350**	**434**	**2,000**					
11/6/01 (MW-5)		---	---	**20,000**	---	---	**2,500**	**46**	**520**	**462**	**2,200**	**510**	**22**			
2/5/02 (MW-2)		---	---	**8,900**	---	---	**150**	**11**	**56**	**39**	**180**	**100**	**23**			
5/9/2002 (MW-5)		---	---	**10,000**	---	---	**11,400**	**33**	**280**	**250**	**780**		**21**			
8/15/2002 (MW-10)		---	---	**67**	---	---	ND<0.50	ND<0.50	**0.90**	**2.2**	**38**		**1.7**			
12/20/02(MW-11)		---	---	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**1.4**					
2/11/03 (MW-10)		---	---	**50**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**47**		**1.5**			
8/14/03 (MW4)		---	---	**7,100**	---	---	**450**	**23**	**81**	**47.5**	**120**	**28**	**5.7**	**1.1**	ND<1.0	
11/4/03 (MW8)		---	---	**1,500**	---	---	**1.5**	ND<0.50	**0.53**	ND<0.50	**4,600**	**1,200**	**130**	**20**	**2.8**	**1,2-DCA=2.4**

TABLE 2: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Fortuna Shell, 819 Main St, Fortuna, California
LOP No. 12672; LACO Project No. 4563.01

NOTES:

TPHg - total petroleum hydrocarbons as gasoline
TPHd - total petroleum hydrocarbons as diesel
TPHmo - total petroleum hydrocarbons as motor oil
xylenes = sum of m,p-xylene and 0-xylene
MTBE - methyl tertiary butyl ether
Other Analytes Include the fuel oxygenates and lead scavengers:
TAME - tertiary amyl methyl ether
TBA - tertiary butyl alcohol
DIPE - di-isopropyl ether
ETBE - ethyl tertiary butyl ether
Methanol, ethanol
1,2-dichlorobenzene
1,3-dichlorobenzene
1,4-dichlorobenzene
1,2-dichloroethane (1,2 DCA)
Ethylene dibromide (EDB)

--- sample not analyzed for parameter
ND<50 - non-detect at reporting limits shown
Bold results indicate analyte detection

Attachment 1

LACO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: Fortuna Shell - HPI
Project No.: 4563.01
Date: 5-3-05
Golbal ID No.: T0602300471
PM: CJW

Tech: SJD
Mob/Demob time: .50/.50
Travel time: 1.0
Time on site: 8:00
Time off site: 2:45
Mileage: 36

WELL No.:	MW11		MW10		MW9		MW3		MW6	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	12.5-15.5		12.5-15.5		12-15		5-12		12-20	
DEPTH TO WATER (ft)	9.45		9.40		8.06		5.67		5.33	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH							6.99	6.84	6.43	6.34
TEMP (°C)							17.4	16.8	15.8	15.8
Ecw (µmohs)							408	321	220	222
ORP (mV)							54	-83	-35	30
DO (mg/L)							1.02	0.25	5.06	4.02
OTHER (units)							—		—	
PURGE: TIME							8:57	9:13	9:35	9:47
METHOD (DHP/CB/B)							DHP		DHP	
RATE (Lpm)							0.19		0.17	
VOLUME (L)							3.0		2.0	
COLOR							CLEAR	YELLOWISH W/SHEEN	CLOUDY	CLOUDY
ODOR							MED. ORGANIC / LIGHT FUEL		SLIGHT SHOE STORE	
INTAKE DEPTH (FEET)							10.0		16.0	
SAMPLE: TIME							9:15		9:49	
METHOD (DHP/CB/B)							DHP		DHP	
ANALYTES	8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC	
TOTAL DRAWDOWN (FEET)							0.33		2.25	
REMARKS							—		—	
WELL CONDITION							good		good	
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

REVISED:5/2/2005

LAGO ASSOCIATES
CONSULTING ENGINEERS
21 West Fourth Street, Eureka, CA 95501
TEL 707.443.5054
FAX 707.443.0553

Project Name: Fortuna Shell - HPI
Project No.: 4563.01
Date: 5-3-05
Golbal ID No.: T0602300471
PM: CJW

Tech: SJD
Mob/Demob time: .50/.50
Travel time: 1.0
Time on site: 8:00
Time off site: 2:45
Mileage: 36

WELL No.:	MW12		MW7		MW13		MW1		MW4	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	12.5-15		10 - 15		12.5-15		6-10		5-10	
DEPTH TO WATER (ft)	9.11		4.61		8.36		5.05		4.61	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH			6.48	6.43					6.18	6.10
TEMP (°C)			16.5	15.9					15.7	15.7
Ecw (µmohs)			273	274					300	302
ORP (mV)			39	42					66	74
DO (mg/L)			1.34	0.70					2.78	0.82
OTHER (units)										
PURGE: TIME			10:07	10:13					10:30	10:38
METHOD (DHP/CB/B)			DHP						DHP	
RATE (Lpm)			0.18						0.18	
VOLUME (L)			1.10						1.40	
COLOR			CLEAR	CLEAR					CLEAR	CLEAR
ODOR			MED. SWEET						MED. SHOE STORE	
INTAKE DEPTH (FEET)			12.5						8.0	
SAMPLE: TIME			10:15						10:40	
METHOD (DHP/CB/B)			DHP						DHP	
ANALYTES	8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC	
TOTAL DRAWDOWN (FEET)			1.36						0.65	
REMARKS										
WELL CONDITION			ALL 3 BOLT HOLES STRIPPED (HAS 3/8" BOLTS)						good	
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

DHP=DOWN HOLE PUMP CB=CHECK BALL B=BAILER FD=FIELD DUPLICATE MB=METHOD BLANK FF=FIELD FILTERED

LACO ASSOCIATES
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21 West Fourth Street, Eureka, CA 95501
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Project Name: Fortuna Shell - HPI
Project No.: 4563.01
Date: 5-3-05
Golbal ID No.: T0602300471
PM: CJW

Tech: SJD
Mob/Demob time: .50/.50
Travel time: 1.0
Time on site: 8:00
Time off site:
Mileage: 36

WELL No.:	MW14		MW15		MW16		MW17S		MW17D	
DIAMETER (in)	1.50		1.50		1.50		1.50		1.50	
SCREENED INTERVAL (ft)	5-10		5-10		5-10		22.5-24.5		26-28	
DEPTH TO WATER (ft)	5.34		4.96		4.55		21.83		25.00	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	6.76	6.75	6.64	6.61	6.60	6.53				
TEMP (°C)	16.5	17.2	17.0	17.5	17.4	16.2				
Ecw (µmohs)	371	356	333	323	324	326				
ORP (mV)	8	-36	-25	-51	-33	-70				
DO (mg/L)	1.48	0.27	0.86	0.37	1.21	0.52				
OTHER (units)	—		—		—					
PURGE: TIME	11:03	11:13	11:30	11:40	12:14	12:24				
METHOD (DHP/CB/B)	DHP		DHP		DHP					
RATE (Lpm)	0.18		0.18		0.18					
VOLUME (L)	1.75		1.80		1.75					
COLOR	CLEAR	CLEAR	CLEAR	CLEAR	CLOUDY	CLOUDY				
ODOR	SLIGHT SHOE STORE/ORGANIC		LIGHT FUEL		STRONG SHOE STORE					
INTAKE DEPTH (FEET)	8.0		9.0		9.0					
SAMPLE: TIME	11:15		11:52		12:30					
METHOD (DHP/CB/B)	DHP		DHP		DHP					
ANALYTES	8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC	
TOTAL DRAWDOWN (FEET)	2.62		2.86		2.85					
REMARKS	LOWERED DHP TO 9.0' TO COLLECT SAMPLE		LOWERED DHP TO 10.0 TO COLLECT SAMPLE		—					
WELL CONDITION	good		good	LIMITED VOLUME IN LITRE BOTTLE	good					
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

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Project Name: **Fortuna Shell - HPI**
Project No.: **4563.01**
Date: 5-3-05
Golbal ID No.: **T0602300471**
PM: **CJW**

Tech: SJD
Mob/Demob time: .50/.50
Travel time: 1.0
Time on site: 8:00
Time off site: 2:45
Mileage: 36

WELL No.:	MW2		MW8		MW5					
DIAMETER (in)	2.00		2.00		2.00					
SCREENED INTERVAL (ft)	5-10		15-20		5-10					
DEPTH TO WATER (ft)	4.75		10.34		4.19					
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	6.78	6.62	6.51	6.42						
TEMP (°C)	17.9	16.8	18.0	17.6						
Ecw (µmohs)	286	266	269	290						
ORP (mV)	-68	-85	-2	0						
DO (mg/L)	1.45	0.32	1.09	0.38						
OTHER (units)	—		—							
PURGE: TIME	12:45	12:55	1:19	1:27	2:15	2:18				
METHOD (DHP/CB/B)	DHP		DHP		1½" B					
RATE (Lpm)	0.19		0.20		1.3					
VOLUME (L)	1.90		1.60		4.0					
COLOR	CLEAR	LT. GREY TINT	CLEAR	CLEAR	CLOUDY TURBID	YELLOWISH TURBID W/ SPECKLED SHEEN				
ODOR	STRONG FUEL / RUBBER		LIGHT SWEET / SULFUR		STRONG FUEL					
INTAKE DEPTH (FEET)	9.0		17.5		—					
SAMPLE: TIME	12:57		1:29		2:25					
METHOD (DHP/CB/B)	DHP		DHP		1½" B					
ANALYTES	8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC					
TOTAL DRAWDOWN (FEET)	0.33		2.74		—					
REMARKS	—		—		T+P = NO FP					
WELL CONDITION	good		good		good					
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

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REVISED:5/2/2005

FAX 707.443.0553

Project Name: FORTUNA SHELL - HP1

Project No.: 4563.01

Tech: S.D

Date: 5-3-05

WELL ID:	METER ACCURACY RANGE				
mw3	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmohs	+/- 2 mv	+/- 0.3 mg/L
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
8:59	6.89	16.6	373	-25	0.58
9:01	6.86	16.6	376	-49	0.49
9:03	6.86	16.7	378	-61	0.44
9:05	6.86	16.7	381	-68	0.41
9:07	6.85	16.8	383	-74	0.39
9:09	6.84	17.0	326	-79	0.34
9:11	6.84	16.9	326	-82	0.26
9:13	6.84	16.8	321	-83	0.25

WELL ID: mw6

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:37	6.38	15.8	218	-4	4.73
9:39	6.35	15.6	219	12	4.46
9:41	6.35	15.6	220	19	4.27
9:43	6.35	15.7	221	25	4.15
9:45	6.34	15.8	221	29	4.10
9:47	6.34	15.8	222	30	4.02

WELL ID: mw7

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:09	6.44	16.2	279	42	0.77
10:11	6.43	15.9	277	42	0.71
10:13	6.43	15.9	274	42	0.70

WELL ID: mw4

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:32	6.14	15.6	301	69	2.01
10:34	6.11	15.7	300	72	1.00
10:36	6.11	15.7	301	73	0.90
10:38	6.10	15.7	302	74	0.82

WELL ID: mw14

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:05	6.74	16.9	359	-16	0.67
11:07	6.75	16.9	359	-29	0.44
11:09	6.75	16.9	357	-33	0.31
11:11	6.75	17.1	357	-35	0.29
11:13	6.75	17.2	356	-36	0.27

WELL ID: mw15

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:32	6.59	17.0	335	-32	0.65
11:34	6.58	16.9	332	-40	0.39
11:36	6.59	17.0	328	-47	0.41
11:38	6.60	17.3	325	-50	0.39
11:40	6.61	17.5	323	-51	0.37

FAX 707.443.0553

Project Name: FORTUNA SHELL - HPI

Project No.: 4563.01

Tech: SJP

Date: 5-3-05

WELL ID:	METER ACCURACY RANGE				
mw16	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmohs	+/- 2 mv	+/- 0.3 mg/L
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
12:16	6.56	16.8	333	-50	0.68
12:18	6.53	16.2	332	-62	0.60
12:20	6.53	16.1	330	-67	0.55
12:22	6.53	16.1	328	-69	0.54
12:24	6.53	16.2	326	-70	0.52

WELL ID: mw2

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
12:47	6.67	17.4	282	-69	0.53
12:49	6.63	16.9	274	-78	0.28
12:51	6.63	16.9	271	-83	0.29
12:53	6.62	16.9	268	-85	0.29
12:55	6.62	16.8	266	-85	0.32

WELL ID: mw8

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
1:21	6.46	17.4	276	-1	0.78
1:23	6.43	17.4	283	0	0.52
1:25	6.42	17.5	286	0	0.44
1:27	6.42	17.6	290	0	0.38

WELL ID:

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

WELL ID:

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)

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Project Name: FORTUNA SHELL - HP1
Project No.: 4563.01
Tech: SJD
Date: 5-3-05

WELL ID: MW2		WELL ID: MW3		WELL ID: MW4		WELL ID: MW5		WELL ID: MW6		WELL ID: MW7	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
8:43	4.75	8:27	5.67	8:29	4.61	2:08	4.19	8:30	5.33	8:32	4.67
9:00	4.75	8:52	5.67	8:46	4.61	T+P		8:48	5.33	8:50	4.67

WELL ID: MW8		WELL ID: MW14		WELL ID: MW15		WELL ID: MW16		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
8:34	10.34	8:36	5.34	8:38	4.96	8:40	4.55				
9:24	10.34	9:26	5.34	9:28	4.96	9:30	4.55				

WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)

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Project Name: Fortuna Shell - HPI
Project No.: 4563.01
Date: 5-03-05
Golbal ID No.: T0602300471
PM: CJW

Tech: ~~SJD~~ JLS
Mob/Demob time: .5/.5
Travel time: 1
Time on site: 7:45 am
Time off site: 2:30 pm
Mileage: 36

WELL No.:	MW11		MW10		MW9		MW3		MW6	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	12.5-15.5		12.5-15.5		12-15		5-12		12-20	
DEPTH TO WATER (ft)	9.45'		9.40'		8.06'					
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	6.62	6.55	6.48	6.33	6.47	7.10				
TEMP (°C)	16.5	18.4	17.0	17.7	17.0	16.7				
Ecw (µmohs)	337	341	282	286	294	287				
ORP (mV)	-46	-47	26	36	19	-94				
DO (mg/L)	1.01	0.27	1.39	0.43	0.99	0.35				
OTHER (units)	—		—		—					
PURGE: TIME	11:52	12:02	10:57	11:07	10:11	10:25				
METHOD (DHP/CB/B)	DHP		DHP		DHP					
RATE (Lpm)	0.15		0.2		0.143					
VOLUME (L)	1.5		2.0		2.0					
COLOR	Clear	Clear	Clear	Lt gray	Clear	Clear				
ODOR	Mild		Slight		Slight					
INTAKE DEPTH (FEET)	14.00'		14.00'		13.50'					
SAMPLE: TIME	12:09		11:12		10:29					
METHOD (DHP/CB/B)	DHP		DHP		DHP					
ANALYTES	8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC	
TOTAL DRAWDOWN (FEET)	2.50		3.45		3.66					
REMARKS	—		—		—					
WELL CONDITION	Good		Good		Good					
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

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Project Name: Fortuna Shell - HPI
Project No.: 4563.01
Date: 5-03-05
Golbal ID No.: T0602300471
PM: CJW

Tech: ~~SJD~~ JLS
Mob/Demob time: .5/.5
Travel time: 1
Time on site: 7:45
Time off site: 2:30
Mileage: 36

WELL No.:	MW12		MW7		MW13		MW1		MW4	
DIAMETER (in)	2.00		2.00		2.00		2.00		2.00	
SCREENED INTERVAL (ft)	12.5-15		10 - 15		12.5-15		6-10		5-10	
DEPTH TO WATER (ft)	9.11'				8.26		5.05'			
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	6.49	6.36			7.02	6.89	6.67	6.54		
TEMP (°C)	17.4	18.5			16.5	17.6	17.6	17.9		
Ecw (µmohs)	396	394			388	0	270	239		
ORP (mV)	0	16			-19	-15	-57	-32		
DO (mg/L)	1.23	0.33			2.12	1.24	1.58	0.42		
OTHER (units)	—				—		—			
PURGE: TIME	12:30	12:42			1:06	1:16	1:48	2:00		
METHOD (DHP/CB/B)	DHP				DHP		DHP			
RATE (Lpm)	0.167				0.2		0.208			
VOLUME (L)	2.0				2.0		2.5			
COLOR	Clear	Clear			Clear	Lt Brown	Clear	Lt Brown		
ODOR	Sweet				Sweet		Oil			
INTAKE DEPTH (FEET)	13.75				13.75'		8.00'			
SAMPLE: TIME	12:47				1:23		2:04			
METHOD (DHP/CB/B)	DHP				DHP		DHP			
ANALYTES	8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC	
TOTAL DRAWDOWN (FEET)	1.70				2.36		1.31			
REMARKS	—				—		—			
WELL CONDITION	Good				Good		Good			
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

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Project Name: Fortuna Shell - HPI
Project No.: 4563.01
Date: 5-03-05
Golbal ID No.: T0602300471
PM: CJW

Tech: SJD JLS
Mob/Demob time: .5/.5
Travel time: 1
Time on site: 7:45 am
Time off site: 2:30 pm
Mileage: 36

WELL No.:	MW14		MW15		MW16		MW17S		MW17D	
DIAMETER (in)	1.50		1.50		1.50		1.50		1.50	
SCREENED INTERVAL (ft)	5-10		5-10		5-10		22.5-24.5		26-28	
DEPTH TO WATER (ft)							21.83		25.00	
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH										
TEMP (°C)										
Ecw (µmohs)										
ORP (mV)										
DO (mg/L)										
OTHER (units)										
PURGE: TIME										
METHOD (DHP/CB/B)										
RATE (Lpm)										
VOLUME (L)										
COLOR							Clear	Lt Brown	Lt Gray	Lt Gray
ODOR							Mild Rotten Egg		Rotten Egg	
INTAKE DEPTH (FEET)										
SAMPLE: TIME							9:18		9:39	
METHOD (DHP/CB/B)							3/4" B		3/4" B	
ANALYTES	8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC		8260 List 5; TPHd/mo w/SGC	
TOTAL DRAWDOWN (FEET)										
REMARKS										
WELL CONDITION							Good		Good	
WASTE DRUMS										

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

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Project Name: Fortuna Shell (HPI)
Project No.: 4563.01
Tech: JLS
Date: 5-3-5

WELL ID:	METER ACCURACY RANGE				
MW #9	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmohs	+/- 2 mv	+/- 0.3 mg/L
TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:13	6.95	17.7	288	-59	0.96
10:15	6.98	17.4	287	-65	0.53
10:17	7.01	17.0	287	-76	0.33
10:19	7.02	16.8	287	-81	0.31
10:21	7.06	16.5	287	-88	0.33
10:23	7.08	16.6	287	-92	0.35
10:25	7.10	16.7	287	-94	0.35

WELL ID: MW #10

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
10:59	6.33	17.4	282	31	0.68
11:01	6.33	17.5	282	33	0.39
11:03	6.33	17.5	282	35	0.38
11:05	6.33	17.6	287	35	0.41
11:07	6.33	17.7	286	36	0.43

WELL ID: MW #11

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
11:54	6.54	17.9	337	-45	1.35
11:56	6.54	17.8	338	-46	0.48
11:58	6.54	18.3	338	-46	0.41
12:00	6.55	18.4	340	-47	0.33
12:02	6.55	18.4	341	-47	0.27

WELL ID: MW #12

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
12:32	6.43	18.6	396	4	1.10
12:34	6.41	17.8	398	5	0.53
12:36	6.40	17.9	397	8	0.41
12:38	6.38	17.9	400	11	0.36
12:40	6.37	18.3	398	14	0.33
12:42	6.36	18.5	394	16	0.33

WELL ID: MW #13

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
1:08	6.94	16.7	4	-25	1.37
1:10	6.93	16.9	0	-20	1.45
1:12	6.92	17.0	0	-18	1.42
1:14	6.91	17.4	0	-16	1.25
1:16	6.89	17.6	0	-15	1.24

WELL ID: MW #1

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
1:50	6.56	17.3	259	-43	0.55
1:52	6.54	17.5	259	-41	0.48
1:54	6.54	17.4	259	-37	0.39
1:56	6.54	17.6	258	-35	0.39
1:58	6.54	17.9	256	-33	0.42
2:00	6.54	17.9	239	-32	0.42

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Project Name: Fortuna Shell (HPI)
Tech: JLS
Date: 5-3-5
Project No.: 4563.01

WELL ID: MW17S		WELL ID: 17D		WELL ID: MW9		WELL ID: MW#10		WELL ID: MW#11		WELL ID: MW#12	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
8:52	21.83	8:56	25.00	9:59	8.06	10:35	9.41	11:41	9.45	12:16	9.11
9:01	21.83			10:04	8.06	10:41	9.40	11:47	9.45	12:22	9.11

WELL ID: MW#13		WELL ID: MW#1		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
8:50	8.25	1:34	5.04								
1:00	8.26	1:41	5.05								

WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)

NORTH COAST LABORATORIES LTD.
5680 West End Road • Arcata • CA 95521-9202
707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501

Phone:
Copies of Report to: LACO ; Chris Watt

Sampler (Sign & Print): SJD

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☑ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☑ Verbal ☐ By:
Final Report: FAX ☐ Verbal ☐ By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4563.01
Project Name: FORTUNA SHELL
Purchase Order Number: task 3023

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 5 (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd/mo w/SGC (CONTAINER 7, PRESERVATIVE --)
	4563-MW1-W	5-3-05	AM	GW	3	1
	4563-MW2-W	↓		↓	3	1
	4563-MW3-W				3	1
	4563-MW4-W				3	1
	4563-MW5-W				3	1
	4563-MW6-W				3	1
	4563-MW7-W				3	1
	4563-MW8-W				3	1
	4563-MW9-W				3	1
	4563-MW10-W	↓	PM	↓	3	1

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME

SAMPLE DISPOSAL
☑ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

NORTH COAST LABORATORIES LTD.
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707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER:

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone:
Copies of Report to: LACO ; Chris Watt
Sampler (Sign & Print): SJD

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☑ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☑ Verbal ☐ By:
Final Report: FAX ☐ Verbal ☐ By:

PROJECT INFORMATION
Project Number: 4563.01
Project Name: FORTUNA SHELL
Purchase Order Number: TASK 3023

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 5 (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd/mo w/SGC (CONTAINER 7, PRESERVATIVE --)
	4563-MW11-W	5-3-05	AM	GW	3	1
	4563-MW12-W				3	1
	4563-MW13-W				3	1
	4563-MW14-W				3	1
	4563-MW15-W				3	1
	4563-MW16-W				3	1
	4563-MW17S-W				3	1
	4563-MW17D-W				3	1
	4563-QCTB-W		PM		1	

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER
LIMITED VOLUME FOR TPHd/mo w/SGC

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME

SAMPLE DISPOSAL
☑ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

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Chain of Custody

LABORATORY NUMBER: 0505064

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501

Phone:
Copies of Report to: LACO ; Chris Watt

Sampler (Sign & Print): SJD

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☑ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☑ Verbal ☐ By:
Final Report: FAX ☐ Verbal ☐ By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4563.01
Project Name: FORTUNA SHELL
Purchase Order Number: task 3023

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 5 (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd/mo w/SGC (CONTAINER 7, PRESERVATIVE 1)
	4563-MW1-W	5-3-05	Am	GW	3	1
	4563-MW2-W				3	1
	4563-MW3-W				3	1
	4563-MW4-W				3	1
	4563-MW5-W				3	1
	4563-MW6-W				3	1
	4563-MW7-W				3	1
	4563-MW8-W				3	1
	4563-MW9-W				3	1
	4563-MW10-W		PM		3	1

SAMPLE CONDITION/SPECIAL INSTRUCTIONS

GEOTRACKER

14.6° 5.9°

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	5-3-05		5/3/05
	4:30 pm		1630

SAMPLE DISPOSAL
☑ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

***MATRIX:** DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

NORTH COAST LABORATORIES LTD.
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707-822-4649 Fax 707-822-6831

Chain of Custody

LABORATORY NUMBER: 0505064

Attention: Accounts Payable
Results & Invoice to: Laco Associates
Address: 21 W. 4th St. Eureka CA 95501
Phone:
Copies of Report to: LACO ; Chris Watt
Sampler (Sign & Print): SJD

TAT: ☐ 24 Hr ☐ 48 Hr ☐ 5 Day ☐ 5–7 Day
☑ STD (2–3 Wk) ☐ Other:
PRIOR AUTHORIZATION IS REQUIRED FOR RUSHES

REPORTING REQUIREMENTS: State Forms ☐
Preliminary: FAX ☑ Verbal ☐ By:
Final Report: FAX ☐ Verbal ☐ By:

CONTAINER CODES: 1—½ gal. pl; 2—250 ml pl; 3—500 ml pl; 4—1 L Nalgene; 5—250 ml BG; 6—500 ml BG; 7—1 L BG; 8—1 L cg; 9—40 ml VOA; 10—125 ml VOA; 11—4 oz glass jar; 12—8 oz glass jar; 13—brass tube; 14—other

PRESERVATIVE CODES: a—HNO_3; b—HCl; c—H_2SO_4; d—$Na_2S_2O_3$; e—NaOH; f—$C_2H_3O_2Cl$; g—other

PROJECT INFORMATION

Project Number: 4563.01
Project Name: FORTUNA SHELL
Purchase Order Number: TASK 3023

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List 5 (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd/mo w/SGC (CONTAINER 7, PRESERVATIVE i)
	4563-MW11-W	5-3-05	AM	GW	3	1
	4563-MW12-W				3	1
	4563-MW13-W				3	1
	4563-MW14-W				3	1
	4563-MW15-W				3	1
	4563-MW16-W				3	1
	4563-MW17S-W				3	1
	4563-MW17D-W				3	1
	4563-QCTB-W		PM		1	

SAMPLE CONDITION/SPECIAL INSTRUCTIONS
GEOTRACKER
LIMITED VOLUME FOR TPHd/mo w/SGC
LIMITED VOLUME " " " "
LIMITED VOLUME " " " "
14.6° 5.9°

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	5-3-05 4:30pm	Lorette Tomlin	5/3/05 1630

SAMPLE DISPOSAL
☑ NCL Disposal of Non-Contaminated
☐ Return ☐ Pickup

CHAIN OF CUSTODY SEALS Y/N/NA
SHIPPED VIA: UPS Air-Ex Fed-Ex Bus Hand

*MATRIX: DW=Drinking Water; Eff=Effluent; Inf=Influent; SW=Surface Water; GW=Ground Water; S=Soil; O=Other.

ALL CONTAMINATED NON-AQUEOUS SAMPLES WILL BE RETURNED TO CLIENT

Attachment 2

NORTH COAST LABORATORIES LTD.

May 17, 2005

LACO Associates
P.O. Box 1023
Eureka, CA 95502

RECEIVED
LACO ASSOCIATES
MAY 18 2005
BY: JG

Order No.: 0505064
Invoice No.: 50174
PO No.: TASK 3023
ELAP No. 1247-Expires July 2006

Attn: Accounts Payable

RE: 4563.01, FORTUNA SHELL

DRG
CJW
FRB

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4563-MW1-W
01D	4563-MW1-W
02A	4563-MW2-W
02D	4563-MW2-W
03A	4563-MW3-W
03D	4563-MW3-W
04A	4563-MW4-W
04D	4563-MW4-W
05A	4563-MW5-W
05D	4563-MW5-W
06A	4563-MW6-W
06D	4563-MW6-W
07A	4563-MW7-W
07D	4563-MW7-W
08A	4563-MW8-W
08D	4563-MW8-W
09A	4563-MW9-W
09D	4563-MW9-W
10A	4563-MW10-W
10D	4563-MW10-W
11A	4563-MW11-W
11D	4563-MW11-W
12A	4563-MW12-W
12D	4563-MW12-W
13A	4563-MW13-W
13D	4563-MW13-W
14A	4563-MW14-W
14D	4563-MW14-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

All solid results are expressed on a wet-weight basis unless otherwise noted.

REPORT CERTIFIED BY

Laboratory Supervisor(s)	QA Unit	Jesse G. Chaney, Jr. Laboratory Director

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Printed on Recycled Paper

May 17, 2005

LACO Associates
P.O. Box 1023
Eureka, CA 95502

Order No.: 0505064
Invoice No.: 50174
PO No.: TASK 3023
ELAP No. 1247-Expires July 2006

Attn: Accounts Payable

RE: 4563.01, FORTUNA SHELL

SAMPLE IDENTIFICATION

15A	4563-MW15-W
15D	4563-MW15-W
16A	4563-MW16-W
16D	4563-MW16-W
17A	4563-MW17S-W
17D	4563-MW17S-W
18A	4563-MW17D-W
18D	4563-MW17D-W
19A	4563-QCTB-W

North Coast Laboratories, Ltd. **Date:** *17-May-05*

CLIENT: LACO Associates
Project: 4563.01, FORTUNA SHELL
Lab Order: 0505064

CASE NARRATIVE

All samples submitted for a silica gel cleanup were initially analyzed for diesel/motor oil. The samples showing no detectable levels of the analytes were not subjected to the cleanup procedure.

TPH as Diesel/Motor Oil w/ Silica Gel Cleanup:
Samples 4563-MW1-W, 4563-MW2-W, 4563-MW3-W, 4563-MW5-W, 4563-MW14-W, 4563-MW15-W and 4563-MW16-W contain some material lighter than diesel. However, some of this material extends into the diesel range of molecular weights. These samples also contain material in the diesel range of molecular weights, but the material does not exhibit the peak pattern typical of diesel oil.

Samples 4563-MW5-W AND 4563-MW10-W do not have the typical pattern of fresh motor oil. However, the results reported represent the amount of material in the motor oil range.

Gasoline Components/Additives:
The gasoline value for sample 4563-MW1-W includes the reported gasoline components in addition to other peaks in the gasoline range.

The gasoline values for samples 4563-MW2-W, 4563-MW3-W, 4563-MW4-W, 4563-MW5-W, 4563-MW14-W, 4563-MW15-W and 4563-MW16-W include the reported gasoline components and additives in addition to other peaks in the gasoline range.

The gasoline values for samples 4563-MW7-W, 4563-MW8-W, 4563-MW12-W, 4563-MW13-W, 4563-MW17S-W and 4563-MW17D-W are primarily from the reported gasoline additives.

Some reporting limits were raised for samples 4563-MW2-W, 4563-MW3-W, 4563-MW4-W, 4563-MW5-W, 4563-MW7-W, 4563-MW12-W, 4563-MW15-W, 4563-MW17S-W and 4563-MW17D-W due to matrix interference.

Sample 4563-MW8-W was diluted and the reporting limits raised additionally due to matrix interference.

The surrogate recoveries for samples 4563-MW2-W and 4563-MW5-W were outside of the acceptance limits. The surrogate recoveries for the quality control samples were within the acceptance limits. This indicates that the low surrogate recoveries may be due to matrix effects from the samples.

TPH as Diesel/Motor Oil:
There was an interferent present in the method blank analyzed on 5/9/05 that was above the reporting limit for diesel. The samples were not effected by the interferent; therefore, the data were accepted.

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Printed on Recycled Paper

Date: 17-May-05
WorkOrder: 0505064

ANALYTICAL REPORT

Client Sample ID: 4563-MW1-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-01A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		5/5/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/5/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/5/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/5/05
Benzene	4.4	0.50	µg/L	1.0		5/5/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/5/05
Toluene	3.7	0.50	µg/L	1.0		5/5/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/5/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Ethylbenzene	18	0.50	µg/L	1.0		5/5/05
m,p-Xylene	5.8	0.50	µg/L	1.0		5/5/05
o-Xylene	0.98	0.50	µg/L	1.0		5/5/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Surrogate: 1,4-Dichlorobenzene-d4	84.9	80.8-139	% Rec	1.0		5/5/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	3,900	50	µg/L	1.0		5/5/05

Client Sample ID: 4563-MW1-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-01D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	370	50	µg/L	1.0	5/11/05	5/16/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/11/05	5/16/05

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Date: 17-May-05
WorkOrder: 0505064

ANALYTICAL REPORT

Client Sample ID: 4563-MW2-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-02A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	10	µg/L	1.0		5/6/05
Tert-butyl alcohol (TBA)	ND	15	µg/L	1.0		5/6/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/6/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/6/05
Benzene	30	0.50	µg/L	1.0		5/6/05
Tert-amyl methyl ether (TAME)	1.1	1.0	µg/L	1.0		5/6/05
1,2-Dichloroethane	ND	2.0	µg/L	1.0		5/6/05
Toluene	5.7	0.50	µg/L	1.0		5/6/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/6/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Ethylbenzene	33	0.50	µg/L	1.0		5/6/05
m,p-Xylene	25	0.50	µg/L	1.0		5/6/05
o-Xylene	1.3	0.50	µg/L	1.0		5/6/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Surrogate: 1,4-Dichlorobenzene-d4	74.6	80.8-139	% Rec	1.0		5/6/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	11,000	2,500	µg/L	50		5/6/05

Client Sample ID: 4563-MW2-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-02D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	990	50	µg/L	1.0	5/11/05	5/16/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/11/05	5/16/05

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Date: 17-May-05
WorkOrder: 0505064

ANALYTICAL REPORT

Client Sample ID: 4563-MW3-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-03A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	23	1.0	µg/L	1.0		5/5/05
Tert-butyl alcohol (TBA)	ND	20	µg/L	1.0		5/5/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/5/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/5/05
Benzene	1.1	0.50	µg/L	1.0		5/5/05
Tert-amyl methyl ether (TAME)	2.0	1.0	µg/L	1.0		5/5/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/5/05
Toluene	ND	0.50	µg/L	1.0		5/5/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/5/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/5/05
m,p-Xylene	0.70	0.50	µg/L	1.0		5/5/05
o-Xylene	0.59	0.50	µg/L	1.0		5/5/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Surrogate: 1,4-Dichlorobenzene-d4	93.0	80.8-139	% Rec	1.0		5/5/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	1,600	50	µg/L	1.0		5/5/05

Client Sample ID: 4563-MW3-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-03D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	280	50	µg/L	1.0	5/11/05	5/16/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/11/05	5/16/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW4-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-04A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	1.8	1.0	µg/L	1.0		5/5/05
Tert-butyl alcohol (TBA)	ND	15	µg/L	1.0		5/5/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/5/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/5/05
Benzene	1.3	0.50	µg/L	1.0		5/5/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/5/05
Toluene	ND	0.50	µg/L	1.0		5/5/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/5/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/5/05
m,p-Xylene	0.55	0.50	µg/L	1.0		5/5/05
o-Xylene	ND	0.50	µg/L	1.0		5/5/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Surrogate: 1,4-Dichlorobenzene-d4	93.6	80.8-139	% Rec	1.0		5/5/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	300	50	µg/L	1.0		5/5/05

Client Sample ID: 4563-MW4-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-04D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/11/05	5/16/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/11/05	5/16/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW5-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-05A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	210	50	µg/L	50		5/6/05
Tert-butyl alcohol (TBA)	75	10	µg/L	1.0		5/6/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/6/05
Ethyl tert-butyl ether (ETBE)	1.2	1.0	µg/L	1.0		5/6/05
Benzene	640	25	µg/L	50		5/6/05
Tert-amyl methyl ether (TAME)	6.9	1.0	µg/L	1.0		5/6/05
1,2-Dichloroethane	ND	3.0	µg/L	1.0		5/6/05
Toluene	18	0.50	µg/L	1.0		5/6/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/6/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Ethylbenzene	180	25	µg/L	50		5/6/05
m,p-Xylene	110	0.50	µg/L	1.0		5/6/05
o-Xylene	2.5	0.50	µg/L	1.0		5/6/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Surrogate: 1,4-Dichlorobenzene-d4	72.9	80.8-139	% Rec	1.0		5/6/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	21,000	2,500	µg/L	50		5/6/05

Client Sample ID: 4563-MW5-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-05D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	3,900	500	µg/L	10	5/11/05	5/17/05
TPHC Motor Oil	2,000	1,700	µg/L	10	5/11/05	5/17/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW6-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-06A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	6.8	1.0	µg/L	1.0		5/5/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/5/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/5/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/5/05
Benzene	ND	0.50	µg/L	1.0		5/5/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/5/05
Toluene	ND	0.50	µg/L	1.0		5/5/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/5/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/5/05
m,p-Xylene	ND	0.50	µg/L	1.0		5/5/05
o-Xylene	ND	0.50	µg/L	1.0		5/5/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Surrogate: 1,4-Dichlorobenzene-d4	92.7	80.8-139	% Rec	1.0		5/5/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		5/5/05

Client Sample ID: 4563-MW6-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-06D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil **Reference:** EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/8/05	5/9/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/8/05	5/9/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW7-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-07A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	140	50	µg/L	50		5/6/05
Tert-butyl alcohol (TBA)	ND	20	µg/L	1.0		5/6/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/6/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/6/05
Benzene	ND	0.50	µg/L	1.0		5/6/05
Tert-amyl methyl ether (TAME)	7.3	1.0	µg/L	1.0		5/6/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/6/05
Toluene	ND	0.50	µg/L	1.0		5/6/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/6/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/6/05
m,p-Xylene	ND	0.50	µg/L	1.0		5/6/05
o-Xylene	ND	0.50	µg/L	1.0		5/6/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Surrogate: 1,4-Dichlorobenzene-d4	94.0	80.8-139	% Rec	1.0		5/6/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	150	50	µg/L	1.0		5/6/05

Client Sample ID: 4563-MW7-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-07D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/11/05	5/16/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/11/05	5/16/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW8-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-08A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	3,300	100	µg/L	100		5/6/05
Tert-butyl alcohol (TBA)	890	10	µg/L	1.0		5/6/05
Di-isopropyl ether (DIPE)	2.2	1.0	µg/L	1.0		5/6/05
Ethyl tert-butyl ether (ETBE)	12	1.0	µg/L	1.0		5/6/05
Benzene	ND	0.50	µg/L	1.0		5/6/05
Tert-amyl methyl ether (TAME)	ND	200	µg/L	100		5/6/05
1,2-Dichloroethane	1.8	1.0	µg/L	1.0		5/6/05
Toluene	ND	0.50	µg/L	1.0		5/6/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/6/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/6/05
m,p-Xylene	ND	0.50	µg/L	1.0		5/6/05
o-Xylene	ND	0.50	µg/L	1.0		5/6/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Surrogate: 1,4-Dichlorobenzene-d4	95.7	80.8-139	% Rec	1.0		5/6/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	1,900	50	µg/L	1.0		5/6/05

Client Sample ID: 4563-MW8-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-08D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/11/05	5/13/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/11/05	5/13/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW9-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-09A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	4.1	1.0	µg/L	1.0		5/5/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/5/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/5/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/5/05
Benzene	ND	0.50	µg/L	1.0		5/5/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/5/05
Toluene	ND	0.50	µg/L	1.0		5/5/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/5/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/5/05
m,p-Xylene	ND	0.50	µg/L	1.0		5/5/05
o-Xylene	ND	0.50	µg/L	1.0		5/5/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Surrogate: 1,4-Dichlorobenzene-d4	92.0	80.8-139	% Rec	1.0		5/5/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		5/5/05

Client Sample ID: 4563-MW9-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-09D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil **Reference:** EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/8/05	5/9/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/8/05	5/9/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW10-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-10A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	9.1	1.0	µg/L	1.0		5/5/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/5/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/5/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/5/05
Benzene	ND	0.50	µg/L	1.0		5/5/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/5/05
Toluene	ND	0.50	µg/L	1.0		5/5/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/5/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/5/05
m,p-Xylene	ND	0.50	µg/L	1.0		5/5/05
o-Xylene	ND	0.50	µg/L	1.0		5/5/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Surrogate: 1,4-Dichlorobenzene-d4	93.0	80.8-139	% Rec	1.0		5/5/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		5/5/05

Client Sample ID: 4563-MW10-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-10D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/11/05	5/13/05
TPHC Motor Oil	210	170	µg/L	1.0	5/11/05	5/13/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW11-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-11A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	3.0	1.0	µg/L	1.0		5/5/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/5/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/5/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/5/05
Benzene	ND	0.50	µg/L	1.0		5/5/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/5/05
Toluene	ND	0.50	µg/L	1.0		5/5/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/5/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/5/05
m,p-Xylene	ND	0.50	µg/L	1.0		5/5/05
o-Xylene	ND	0.50	µg/L	1.0		5/5/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Surrogate: 1,4-Dichlorobenzene-d4	93.6	80.8-139	% Rec	1.0		5/5/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		5/5/05

Client Sample ID: 4563-MW11-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-11D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/11/05	5/13/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/11/05	5/13/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW12-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-12A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	720	50	µg/L	50		5/6/05
Tert-butyl alcohol (TBA)	ND	15	µg/L	1.0		5/6/05
Di-isopropyl ether (DIPE)	1.6	1.0	µg/L	1.0		5/6/05
Ethyl tert-butyl ether (ETBE)	3.2	1.0	µg/L	1.0		5/6/05
Benzene	ND	0.50	µg/L	1.0		5/6/05
Tert-amyl methyl ether (TAME)	34	1.0	µg/L	1.0		5/6/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/6/05
Toluene	ND	0.50	µg/L	1.0		5/6/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/6/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/6/05
m,p-Xylene	ND	0.50	µg/L	1.0		5/6/05
o-Xylene	ND	0.50	µg/L	1.0		5/6/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Surrogate: 1,4-Dichlorobenzene-d4	95.6	80.8-139	% Rec	1.0		5/6/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	640	50	µg/L	1.0		5/6/05

Client Sample ID: 4563-MW12-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-12D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/11/05	5/16/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/11/05	5/16/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW13-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-13A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	63	1.0	µg/L	1.0		5/6/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/6/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/6/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/6/05
Benzene	ND	0.50	µg/L	1.0		5/6/05
Tert-amyl methyl ether (TAME)	1.7	1.0	µg/L	1.0		5/6/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/6/05
Toluene	ND	0.50	µg/L	1.0		5/6/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/6/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/6/05
m,p-Xylene	ND	0.50	µg/L	1.0		5/6/05
o-Xylene	ND	0.50	µg/L	1.0		5/6/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Surrogate: 1,4-Dichlorobenzene-d4	90.6	80.8-139	% Rec	1.0		5/6/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	63	50	µg/L	1.0		5/6/05

Client Sample ID: 4563-MW13-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-13D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/11/05	5/13/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/11/05	5/13/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW14-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-14A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	7.9	1.0	µg/L	1.0		5/5/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/5/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/5/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/5/05
Benzene	1.3	0.50	µg/L	1.0		5/5/05
Tert-amyl methyl ether (TAME)	1.2	1.0	µg/L	1.0		5/5/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/5/05
Toluene	0.55	0.50	µg/L	1.0		5/5/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/5/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Ethylbenzene	1.3	0.50	µg/L	1.0		5/5/05
m,p-Xylene	0.59	0.50	µg/L	1.0		5/5/05
o-Xylene	ND	0.50	µg/L	1.0		5/5/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Surrogate: 1,4-Dichlorobenzene-d4	86.9	80.8-139	% Rec	1.0		5/5/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	1,000	50	µg/L	1.0		5/5/05

Client Sample ID: 4563-MW14-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-14D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	140	50	µg/L	1.0	5/12/05	5/14/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/12/05	5/14/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW15-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-15A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	70	µg/L	1.0		5/5/05
Tert-butyl alcohol (TBA)	ND	20	µg/L	1.0		5/5/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/5/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/5/05
Benzene	75	0.50	µg/L	1.0		5/5/05
Tert-amyl methyl ether (TAME)	1.9	1.0	µg/L	1.0		5/5/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/5/05
Toluene	2.4	0.50	µg/L	1.0		5/5/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/5/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Ethylbenzene	15	0.50	µg/L	1.0		5/5/05
m,p-Xylene	5.2	0.50	µg/L	1.0		5/5/05
o-Xylene	0.54	0.50	µg/L	1.0		5/5/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Surrogate: 1,4-Dichlorobenzene-d4	86.7	80.8-139	% Rec	1.0		5/5/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	2,200	50	µg/L	1.0		5/5/05

Client Sample ID: 4563-MW15-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-15D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	170	50	µg/L	1.0	5/12/05	5/14/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/12/05	5/14/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW16-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-16A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	470	50	µg/L	50		5/6/05
Tert-butyl alcohol (TBA)	300	10	µg/L	1.0		5/6/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/6/05
Ethyl tert-butyl ether (ETBE)	4.3	1.0	µg/L	1.0		5/6/05
Benzene	580	25	µg/L	50		5/6/05
Tert-amyl methyl ether (TAME)	14	1.0	µg/L	1.0		5/6/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/6/05
Toluene	15	0.50	µg/L	1.0		5/6/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/6/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Ethylbenzene	35	0.50	µg/L	1.0		5/6/05
m,p-Xylene	33	0.50	µg/L	1.0		5/6/05
o-Xylene	7.0	0.50	µg/L	1.0		5/6/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Surrogate: 1,4-Dichlorobenzene-d4	91.5	80.8-139	% Rec	1.0		5/6/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	7,900	2,500	µg/L	50		5/6/05

Client Sample ID: 4563-MW16-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-16D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil w/ Silica Gel Cleanup **Reference:** EPA 3510/3630/GCFID(LUFT)/8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	370	50	µg/L	1.0	5/12/05	5/14/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/12/05	5/14/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW17S-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-17A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	300	50	µg/L	50		5/6/05
Tert-butyl alcohol (TBA)	ND	15	µg/L	1.0		5/6/05
Di-isopropyl ether (DIPE)	1.8	1.0	µg/L	1.0		5/6/05
Ethyl tert-butyl ether (ETBE)	1.7	1.0	µg/L	1.0		5/6/05
Benzene	ND	0.50	µg/L	1.0		5/6/05
Tert-amyl methyl ether (TAME)	2.1	1.0	µg/L	1.0		5/6/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/6/05
Toluene	ND	0.50	µg/L	1.0		5/6/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/6/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/6/05
m,p-Xylene	ND	0.50	µg/L	1.0		5/6/05
o-Xylene	ND	0.50	µg/L	1.0		5/6/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Surrogate: 1,4-Dichlorobenzene-d4	96.1	80.8-139	% Rec	1.0		5/6/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	320	50	µg/L	1.0		5/6/05

Client Sample ID: 4563-MW17S-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-17D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil **Reference:** EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/11/05	5/11/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/11/05	5/11/05

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ANALYTICAL REPORT

Client Sample ID: 4563-MW17D-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-18A **Matrix:** Groundwater

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	100	50	µg/L	50		5/6/05
Tert-butyl alcohol (TBA)	ND	20	µg/L	1.0		5/6/05
Di-isopropyl ether (DIPE)	2.0	1.0	µg/L	1.0		5/6/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/6/05
Benzene	ND	0.50	µg/L	1.0		5/6/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/6/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/6/05
Toluene	ND	0.50	µg/L	1.0		5/6/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/6/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/6/05
m,p-Xylene	ND	0.50	µg/L	1.0		5/6/05
o-Xylene	ND	0.50	µg/L	1.0		5/6/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/6/05
Surrogate: 1,4-Dichlorobenzene-d4	94.5	80.8-139	% Rec	1.0		5/6/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	130	50	µg/L	1.0		5/6/05

Client Sample ID: 4563-MW17D-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-18D **Matrix:** Groundwater

Test Name: TPH as Diesel/Motor Oil **Reference:** EPA 3510/GCFID(LUFT)/EPA 8015B

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Diesel (C12-C22)	ND	50	µg/L	1.0	5/11/05	5/11/05
TPHC Motor Oil	ND	170	µg/L	1.0	5/11/05	5/11/05

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ANALYTICAL REPORT

Client Sample ID: 4563-QCTB-W **Received:** 5/3/05 **Collected:** 5/3/05 0:00
Lab ID: 0505064-19A **Matrix:** Trip Blank

Test Name: Gasoline Components/Additives **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	ND	1.0	µg/L	1.0		5/5/05
Tert-butyl alcohol (TBA)	ND	10	µg/L	1.0		5/5/05
Di-isopropyl ether (DIPE)	ND	1.0	µg/L	1.0		5/5/05
Ethyl tert-butyl ether (ETBE)	ND	1.0	µg/L	1.0		5/5/05
Benzene	ND	0.50	µg/L	1.0		5/5/05
Tert-amyl methyl ether (TAME)	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichloroethane	ND	1.0	µg/L	1.0		5/5/05
Toluene	ND	0.50	µg/L	1.0		5/5/05
1,2-Dibromoethane (EDB)	ND	1.0	µg/L	1.0		5/5/05
Chlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Ethylbenzene	ND	0.50	µg/L	1.0		5/5/05
m,p-Xylene	ND	0.50	µg/L	1.0		5/5/05
o-Xylene	ND	0.50	µg/L	1.0		5/5/05
1,3-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,4-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
1,2-Dichlorobenzene	ND	1.0	µg/L	1.0		5/5/05
Surrogate: 1,4-Dichlorobenzene-d4	91.7	80.8-139	% Rec	1.0		5/5/05

Test Name: TPH as Gasoline **Reference:** LUFT/EPA 8260B Modified

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	ND	50	µg/L	1.0		5/5/05

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North Coast Laboratories, Ltd.

Date: 17-May-05

CLIENT: LACO Associates
Work Order: 0505064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Method Blank

Sample ID **MB-5/5/05** Batch ID: **R34776** Test Code: **8260OXYW** Units: **µg/L** Analysis Date **5/5/05 6:22:00 AM** Prep Date

Client ID: Run ID: **ORGCMS2_050505B** SeqNo: **503817**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	1.0									
Tert-butyl alcohol (TBA)	ND	10									
Di-isopropyl ether (DIPE)	ND	1.0									
Ethyl tert-butyl ether (ETBE)	ND	1.0									
Benzene	ND	0.50									
Tert-amyl methyl ether (TAME)	ND	1.0									
1,2-Dichloroethane	ND	1.0									
Toluene	ND	0.50									
1,2-Dibromoethane (EDB)	ND	1.0									
Chlorobenzene	ND	1.0									
Ethylbenzene	0.1761	0.50									J
m,p-Xylene	0.2561	0.50									J
o-Xylene	0.2161	0.50									J
1,3-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene	ND	1.0									
1,2-Dichlorobenzene	ND	1.0									
1,4-Dichlorobenzene-d4	0.954	0.10	1.00	0	95.4%	81	139	0			

Sample ID **MB-5/5/05** Batch ID: **R34773** Test Code: **GASW-MS** Units: **µg/L** Analysis Date **5/5/05 6:22:00 AM** Prep Date

Client ID: Run ID: **ORGCMS2_050505A** SeqNo: **503770**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	18.32	50									J

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: LACO Associates
Work Order: 0505064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Method Blank

Sample ID **MB-13478** Batch ID: **13478** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **5/13/05 12:00:14 PM** Prep Date **5/11/05**
Client ID: Run ID: **ORGC5_050513A** SeqNo: **504935**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	49.29	50									J
TPHC Motor Oil	ND	170									

Sample ID **MB-13490** Batch ID: **13490** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **5/14/05 2:01:46 PM** Prep Date **5/12/05**
Client ID: Run ID: **ORGC5_050514A** SeqNo: **504944**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	43.03	50									J
TPHC Motor Oil	ND	170									

Sample ID **MB-13478** Batch ID: **13478** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **5/16/05 7:03:42 PM** Prep Date **5/11/05**
Client ID: Run ID: **ORGC5_050516A** SeqNo: **505206**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	ND	50									
TPHC Motor Oil	ND	170									

Sample ID **MB-13462** Batch ID: **13462** Test Code: **TPHDMW** Units: **µg/L** Analysis Date **5/9/05 1:39:59 PM** Prep Date **5/8/05**
Client ID: Run ID: **ORGC7_050509A** SeqNo: **503986**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	104.9	50									
TPHC Motor Oil	ND	170									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: LACO Associates
Work Order: 0505064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Method Blank

Sample ID **MB-13477** Batch ID: **13477** Test Code: **TPHDMW** Units: **µg/L** Analysis Date **5/11/05 12:31:36 PM** Prep Date **5/11/05**

Client ID: Run ID: **ORGC7_050511A** SeqNo: **504373**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	ND	50									
TPHC Motor Oil	ND	170									

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

North Coast Laboratories, Ltd.

Date: 17-May-05

CLIENT: LACO Associates
Work Order: 0505064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-05308** Batch ID: **R34776** Test Code: **8260OXYW** Units: **µg/L** Analysis Date **5/5/05 2:17:00 AM** Prep Date

Client ID: Run ID: **ORGCMS2_050505B** SeqNo: **503814**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	18.31	1.0	20.0	0	91.5%	80	120	0			
Tert-butyl alcohol (TBA)	354.6	10	400	0	88.6%	25	162	0			
Di-isopropyl ether (DIPE)	18.12	1.0	20.0	0	90.6%	80	120	0			
Ethyl tert-butyl ether (ETBE)	18.11	1.0	20.0	0	90.5%	77	120	0			
Benzene	18.11	0.50	20.0	0	90.5%	78	117	0			
Tert-amyl methyl ether (TAME)	19.69	1.0	20.0	0	98.4%	64	136	0			
1,2-Dichloroethane	17.28	1.0	20.0	0	86.4%	74	121	0			
Toluene	17.61	0.50	20.0	0	88.0%	80	120	0			
1,2-Dibromoethane (EDB)	17.53	1.0	20.0	0	87.6%	80	120	0			
Chlorobenzene	18.30	1.0	20.0	0	91.5%	80	120	0			
Ethylbenzene	18.86	0.50	20.0	0	94.3%	80	120	0			
m,p-Xylene	37.26	0.50	40.0	0	93.1%	80	120	0			
o-Xylene	19.48	0.50	20.0	0	97.4%	80	120	0			
1,3-Dichlorobenzene	17.66	1.0	20.0	0	88.3%	81	125	0			
1,4-Dichlorobenzene	17.32	1.0	20.0	0	86.6%	79	132	0			
1,2-Dichlorobenzene	18.03	1.0	20.0	0	90.2%	81	134	0			
1,4-Dichlorobenzene-d4	1.06	0.10	1.00	0	105%	81	139	0			

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: LACO Associates
Work Order: 0505064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID **LCSD-05308** Batch ID: **R34776** Test Code: **8260OXYW** Units: **µg/L** Analysis Date **5/5/05 2:48:00 AM** Prep Date
Client ID: Run ID: **ORGCMS2_050505B** SeqNo: **503815**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	18.45	1.0	20.0	0	92.2%	80	120	18.3	0.756%	20	
Tert-butyl alcohol (TBA)	348.7	10	400	0	87.2%	25	162	355	1.67%	20	
Di-isopropyl ether (DIPE)	18.33	1.0	20.0	0	91.7%	80	120	18.1	1.18%	20	
Ethyl tert-butyl ether (ETBE)	18.16	1.0	20.0	0	90.8%	77	120	18.1	0.275%	20	
Benzene	18.18	0.50	20.0	0	90.9%	78	117	18.1	0.396%	20	
Tert-amyl methyl ether (TAME)	19.97	1.0	20.0	0	99.8%	64	136	19.7	1.41%	20	
1,2-Dichloroethane	17.37	1.0	20.0	0	86.8%	74	121	17.3	0.519%	20	
Toluene	17.74	0.50	20.0	0	88.7%	80	120	17.6	0.744%	20	
1,2-Dibromoethane (EDB)	17.94	1.0	20.0	0	89.7%	80	120	17.5	2.35%	20	
Chlorobenzene	18.23	1.0	20.0	0	91.1%	80	120	18.3	0.415%	20	
Ethylbenzene	19.00	0.50	20.0	0	95.0%	80	120	18.9	0.715%	20	
m,p-Xylene	38.09	0.50	40.0	0	95.2%	80	120	37.3	2.23%	20	
o-Xylene	19.41	0.50	20.0	0	97.0%	80	120	19.5	0.395%	20	
1,3-Dichlorobenzene	17.88	1.0	20.0	0	89.4%	81	125	17.7	1.19%	20	
1,4-Dichlorobenzene	17.54	1.0	20.0	0	87.7%	79	132	17.3	1.31%	20	
1,2-Dichlorobenzene	18.07	1.0	20.0	0	90.3%	81	134	18.0	0.185%	20	
1,4-Dichlorobenzene-d4	1.06	0.10	1.00	0	106%	81	139	1.06	0.401%	20	

Sample ID **LCS-05309** Batch ID: **R34773** Test Code: **GASW-MS** Units: **µg/L** Analysis Date **5/5/05 4:20:00 AM** Prep Date
Client ID: Run ID: **ORGCMS2_050505A** SeqNo: **503767**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1,115	50	1,000	0	111%	80	120	0			

Sample ID **LCSD-05309** Batch ID: **R34773** Test Code: **GASW-MS** Units: **µg/L** Analysis Date **5/5/05 4:51:00 AM** Prep Date
Client ID: Run ID: **ORGCMS2_050505A** SeqNo: **503768**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	1,075	50	1,000	0	108%	80	120	1,120	3.62%	20	

Qualifiers: ND - Not Detected at the Reporting Limit; S - Spike Recovery outside accepted recovery limits; B - Analyte detected in the associated Method Blank; J - Analyte detected below quantitation limits; R - RPD outside accepted recovery limits

CLIENT: LACO Associates
Work Order: 0505064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-13478** Batch ID: **13478** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **5/13/05 9:52:27 AM** Prep Date **5/11/05**
Client ID: Run ID: **ORGC5_050513A** SeqNo: **504933**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	476.1	50	500	0	95.2%	42	96	0			
TPHC Motor Oil	964.5	170	1,000	0	96.5%	52	103	0			

Sample ID **LCSD-13478** Batch ID: **13478** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **5/13/05 10:23:45 AM** Prep Date **5/11/05**
Client ID: Run ID: **ORGC5_050513A** SeqNo: **504934**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	461.4	50	500	0	92.3%	42	96	476	3.15%	15	
TPHC Motor Oil	1,008	170	1,000	0	101%	52	103	964	4.39%	15	

Sample ID **LCS-13490** Batch ID: **13490** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **5/14/05 11:52:38 AM** Prep Date **5/12/05**
Client ID: Run ID: **ORGC5_050514A** SeqNo: **504942**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	371.4	50	500	0	74.3%	42	96	0			
TPHC Motor Oil	869.6	170	1,000	0	87.0%	52	103	0			

Sample ID **LCSD-13490** Batch ID: **13490** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **5/14/05 12:25:48 PM** Prep Date **5/12/05**
Client ID: Run ID: **ORGC5_050514A** SeqNo: **504943**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	394.1	50	500	0	78.8%	42	96	371	5.94%	15	
TPHC Motor Oil	882.2	170	1,000	0	88.2%	52	103	870	1.43%	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: LACO Associates
Work Order: 0505064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-13478** Batch ID: **13478** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **5/16/05 4:44:43 PM** Prep Date **5/11/05**
Client ID: Run ID: **ORGC5_050516A** SeqNo: **505204**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	335.3	50	500	0	67.1%	42	96	0			
TPHC Motor Oil	759.5	170	1,000	0	75.9%	52	103	0			

Sample ID **LCSD-13478** Batch ID: **13478** Test Code: **SGTPDMW** Units: **µg/L** Analysis Date **5/16/05 5:18:41 PM** Prep Date **5/11/05**
Client ID: Run ID: **ORGC5_050516A** SeqNo: **505205**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	372.6	50	500	0	74.5%	42	96	335	10.5%	15	
TPHC Motor Oil	837.2	170	1,000	0	83.7%	52	103	760	9.74%	15	

Sample ID **LCS-13462** Batch ID: **13462** Test Code: **TPHDMW** Units: **µg/L** Analysis Date **5/9/05 11:47:47 AM** Prep Date **5/8/05**
Client ID: Run ID: **ORGC7_050509A** SeqNo: **503984**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	537.8	50	500	0	108%	72	124	0			B
TPHC Motor Oil	1,117	170	1,000	0	112%	71	139	0			

Sample ID **LCSD-13462** Batch ID: **13462** Test Code: **TPHDMW** Units: **µg/L** Analysis Date **5/9/05 12:06:34 PM** Prep Date **5/8/05**
Client ID: Run ID: **ORGC7_050509A** SeqNo: **503985**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	538.8	50	500	0	108%	72	124	538	0.190%	15	B
TPHC Motor Oil	1,101	170	1,000	0	110%	71	139	1,120	1.42%	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

CLIENT: LACO Associates
Work Order: 0505064
Project: 4563.01, FORTUNA SHELL

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID **LCS-13477** Batch ID: **13477** Test Code: **TPHDMW** Units: **µg/L** Analysis Date **5/11/05 10:41:15 AM** Prep Date **5/11/05**
Client ID: Run ID: **ORGC7_050511A** SeqNo: **504371**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	553.5	50	500	0	111%	72	124	0			
TPHC Motor Oil	971.5	170	1,000	0	97.2%	71	139	0			

Sample ID **LCSD-13477** Batch ID: **13477** Test Code: **TPHDMW** Units: **µg/L** Analysis Date **5/11/05 10:59:37 AM** Prep Date **5/11/05**
Client ID: Run ID: **ORGC7_050511A** SeqNo: **504372**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	550.1	50	500	0	110%	72	124	554	0.617%	15	
TPHC Motor Oil	1,036	170	1,000	0	104%	71	139	972	6.43%	15	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

Humboldt County Department of Health and Human Services
DIVISION OF ENVIRONMENTAL HEALTH

100 H Street - Suite 100 - Eureka, CA 95501
Voice: 707-445-6215 - Fax: 707-441-5699 - Toll Free: 800-963-9241
envhealth@co.humboldt.ca.us

LMO
DRG
DNL
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File
Project # 4563.01

RECEIVED
FEB 10 2005
BY: JG

February 7, 2005

Humboldt Petroleum, Incorporated
James Seiler
PO Box 131
Eureka, California 95502-0131

Subject: **HPI Fortuna Shell, 819 Main Street, Fortuna, California**
LOP #12672

Dear Mr. Seiler:

Thank you for submitting *Results of Pilot Test – Oxygen Sparging System*, prepared by LACO Associates.

- We concur with the recommendation to prepare a workplan for the installation of a comprehensive oxygen sparging system.
- Provide a revised summary of site conditions with the next report. Please incorporate data from the adjacent site.

Please contact me at (707) 268-2208 if you have any questions.

Sincerely,

Mark Verhey, Geologist
Humboldt County Local Oversight Program

MAV: swb

cc: Christopher Watt, LACO Associates
Thomas Bauhs, Chevron U.S.A. Products Company
Peter Van Alyea, Redwood Oil Company

12672.024 / 427L