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April 19, 2005

4858.01

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

Attention: Mr. Mark Verhey

Subject: Groundwater Monitoring Report; First Quarter 2005
Former Pete's Automotive Service, 1409 Main Street, Fortuna, California
LOP No. 12517

Dear Mr. Verhey:

LACO ASSOCIATES (LACO) presents the results of groundwater monitoring for the first quarter of 2005.

Please call (707) 443-5054 if you have any questions or concerns.

Sincerely,
LACO ASSOCIATES

V.T. Sullivan Jr

Vincent T. Sullivan, EIT
Staff Engineer

Timothy D. Nelson
PG 7579 Exp. 5/31/05

PROFESSIONAL GEOLOGIST
TIMOTHY DOUGLAS NELSON
No. 7579
Exp. 05/31/05
STATE OF CALIFORNIA

VTS:lnm

Attachments

cc: Pete Perdew

P:\4800\4858 Pete Perdew\Submittals\Groundwater Monitoring Reports\2005\1Q '05\4858 1Q05 gmr.doc

21 W. 4th Street • P.O. Box 1023 • Eureka, California 95502 • 707-443-5054 • 1-800-515-5054 • FAX 707-443-0553
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GROUNDWATER MONITORING REPORT
FIRST QUARTER 2005

Former Pete's Automotive Service
1409 Main Street, Fortuna, California
LOP No. 12517; LACO ASSOCIATES Project No. 4858.01

A location and site map are provided as Figures 1 and 2, respectively.

Site Chronology:

- 1995: One 500-gallon waste oil underground storage tank (UST), two 4,000-gallon gasoline USTs, and associated dispensers were removed.
- 1995 through 2004: Delineation of sorbed- and dissolved-phase petroleum hydrocarbons was performed, including the installation of five monitoring wells.
- 2001: Approximately 146 cubic yards of soil containing total petroleum hydrocarbons as gasoline (TPHg), total petroleum hydrocarbons as diesel (TPHd), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and methyl tertiary-butyl ether (MTBE) were excavated and removed from the site.
- 2003: A sensitive receptor survey was performed.
- 2004: Monitoring wells MW1 and MW4 were destroyed by the pressure-grouting method.

Groundwater Sampling:

Quarterly groundwater monitoring was conducted on March 18, 2005. Details regarding monitoring activities performed during the first quarter of 2005 are contained in Table A, included below. A key to abbreviations for tabular information is included as Attachment 1, and the field sampling data sheets are included as Attachment 2.

Table A: Field Sampling Data - March 18, 2005

MONITORING WELL ID	SCREENED INTERVAL (feet bgs)	DTW (feet bgs)	PURGE METHOD	WATER QUALITY PARAMETERS	ANALYTICALS		SAMPLING SCHEDULE
					ORGANICS	INORGANICS	
MW2	4 - 19.5	6.04	DHP	pH, T, Ecw, ORP, DO	TPHg, BTEX, MTBE	---	Biannual
MW3	4 - 19.5	6.20	DHP	pH, T, Ecw, ORP, DO	TPHg, BTEX, MTBE	---	Biannual
MW5	4 - 19.5	6.29	DHP	pH, T, Ecw, ORP, DO	TPHg, TPHd/mo, BTEX, MTBE	---	Quarterly

Quarterly Laboratory Analytical Results:

Groundwater analytical data from the March 18, 2005 quarterly sampling event are detailed in Table B, included below, and are illustrated on Figure 3. Current and historical groundwater analytical data are

included in Table 1, and copies of the laboratory analytical reports for this reporting period are included as Attachment 3.

Table B: Analytical Results for the March 18, 2005, Quarterly Sampling Event								
WELL	TPHg (µg/l)	TPHd (µg/l)	TPHmo (µg/l)	Benzene (µg/l)	Toluene (µg/l)	Ethylbenzene (µg/l)	Xylenes (µg/l)	MTBE (µg/l)
MW2	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0
MW3	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**4.4**
MW5	**68**	ND<50	ND<170	ND<0.50	ND<0.50	0.62	**1.7**	ND<1.0

Quarterly Evaluation of Groundwater Analytical Results:

A summary of findings from the first quarter 2005 groundwater monitoring data is included below.

- March 18, 2005: Concentrations reported for the first quarter 2005 sampling event are generally consistent with results for recent sampling events.

Historical Evaluation of Groundwater Analytical Results:

A summary of findings from historical groundwater monitoring data is included below. Findings from the evaluation of the previous quarter's groundwater monitoring results are transferred to this section for review (descending chronologically).

Prior to First Quarter 2005

- Excluding TPHg, monitoring well MW2 has been reported below standard detection limits for all analytes. A detection of total petroleum hydrocarbons as motor oil (TPHmo) in the March 2002 sampling event and infrequent detections of BTEX are exceptions to this observation.
- In monitoring well MW3, MTBE has been reported for every sampling event in which laboratory analysis was performed dating to the January 2002 sampling event. TPHg and benzene have been sporadically reported since sampling was initiated in monitoring well MW3 in June 2001.
- TPHg, ethylbenzene, and total xylenes have been consistently reported in monitoring well MW5 since sampling was initiated in June 2001. TPHd, benzene, and toluene have also been sporadically reported in monitoring well MW5.

Current and historical groundwater monitoring data are included in Table 1.

Hydraulic Gradient and Hydrogeology:

The site and immediate vicinity are built on Eel River flood plain deposits. The upper 16 feet appears to generally consist of silt with varying fractions of clay and sand, with a silty sand unit appearing to be the primary water bearing zone at the site.

The hydraulic gradient was calculated using the hydraulic heads of monitoring wells MW2, MW3, and MW5 and the three-point method. The hydraulic gradient for the current sampling event was calculated as 1.7 percent in the N78°W direction.

The hydraulic gradient and potentiometric surface for this site's water-bearing unit are presented as Figure 4. Current and historical hydraulic head data are presented in Table 1, historical hydraulic gradient data are presented in Table 2, and a copy of the field sampling data sheets are included as Attachment 2.

Future Work:

- The next sampling event is scheduled for monitoring well MW5 in June 2005, with the next bi-annual sampling of all on-site monitoring wells scheduled for September 2005.

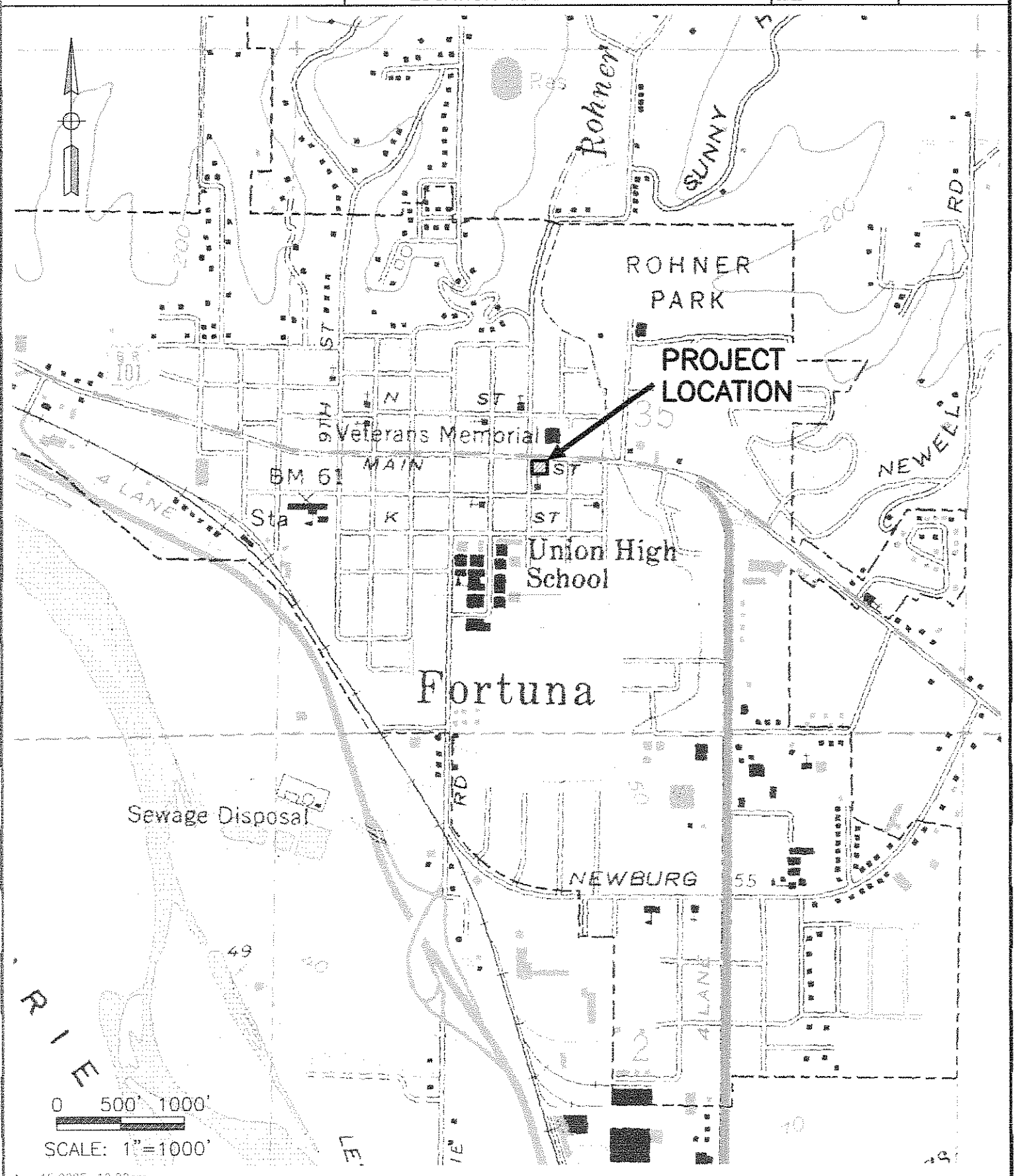
List of Figures, Tables, and Attachments:

Figure 1: Location Map
Figure 2: Site Map
Figure 3: Analyte Concentrations in Groundwater (March 18, 2005)
Figure 4: Hydraulic Gradient Map (March 18, 2005)

Table 1: Well Data and Groundwater Analytical Results
Table 2: Historical Groundwater Gradients

Attachment 1: Abbreviations used in Tabulated Data
Attachment 2: Field Sampling Data Sheets
Attachment 3: Laboratory Analytical Reports

LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT	GROUNDWATER MONITORING REPORT	BY	BAB	FIGURE
	CLIENT	PETE PERDEW	DATE	2/16/05	1
	LOCATION	14th & MAIN STREETS, FORTUNA	CHECK		JOB NO.
		LOCATION MAP	SCALE	1"=1000'	4858.01



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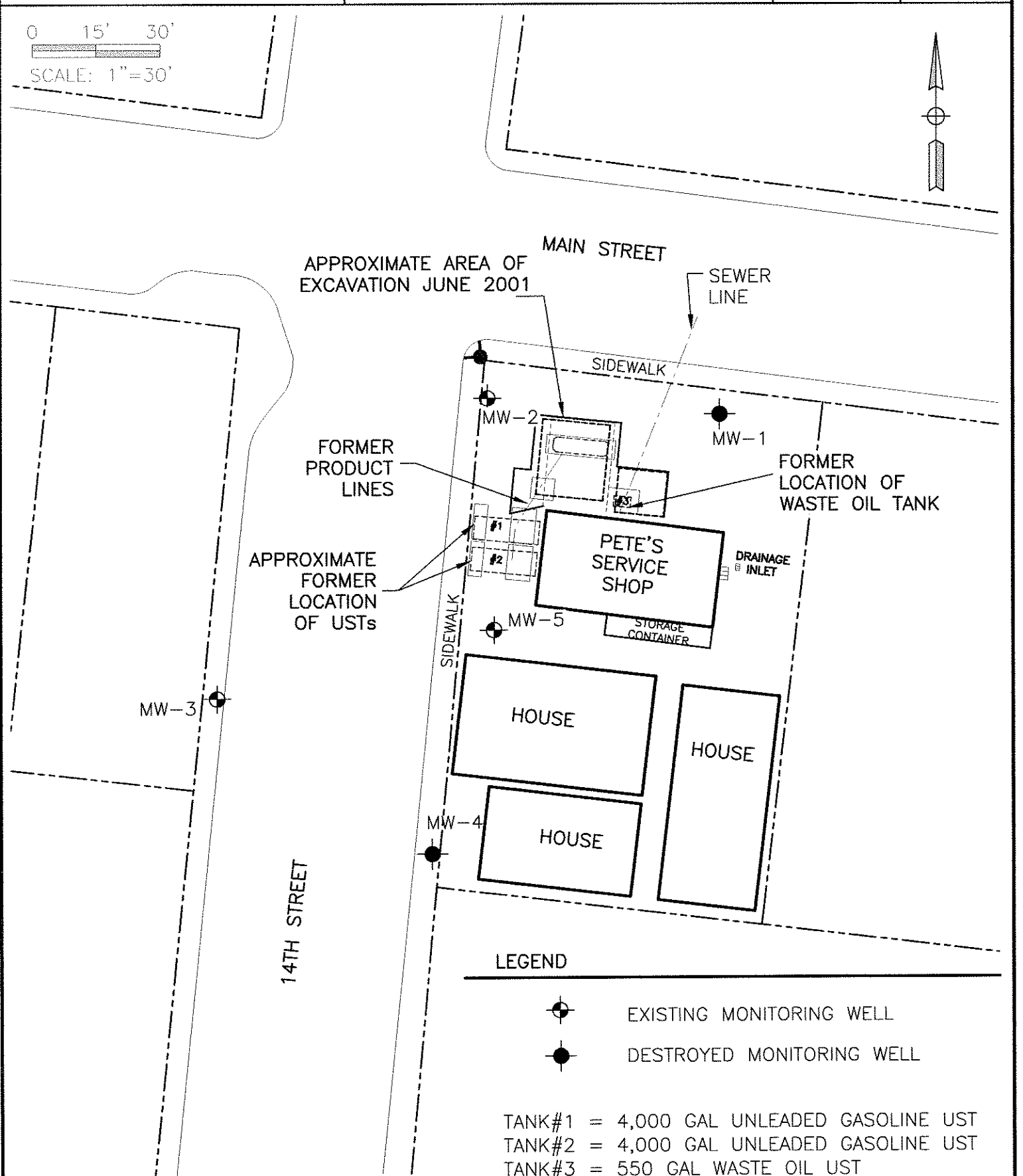
LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY BAB	FIGURE 2
	CLIENT PETE PERDEW	DATE 4/15/05	
	LOCATION 1409 MAIN STREET, FORTUNA, CA 95540	CHECK	JOB NO. 4858.01
	SITE MAP	SCALE 1"=30'	



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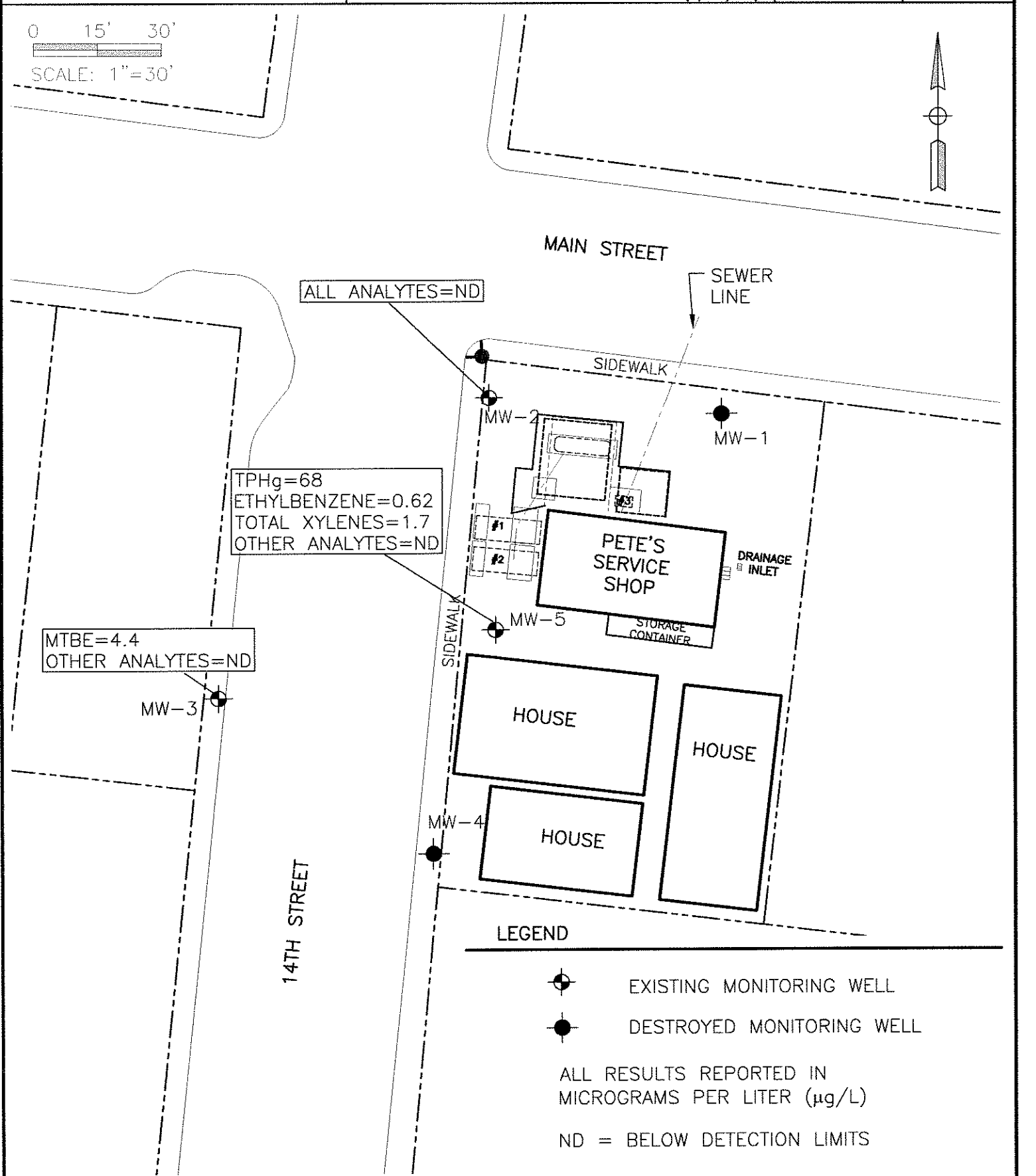
LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY BAB	FIGURE 3
	CLIENT PETE PERDEW	DATE 4/15/05	
	LOCATION 1409 MAIN STREET, FORTUNA, CA 95540	CHECK	JOB NO. 4858.01
	ANALYTE CONCENTRATIONS IN GROUNDWATER (3/18/05)	SCALE 1"=30'	



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LACO ASSOCIATES CONSULTING ENGINEERS 21 W 4TH ST. EUREKA, CA 95501 (707)443-5054	PROJECT GROUNDWATER MONITORING REPORT	BY BAB	FIGURE 4
	CLIENT PETE PERDEW	DATE 4/15/05	
	LOCATION 1409 MAIN STREET, FORTUNA, CA 95540	CHECK	JOB NO. 4858.01
	HYDRAULIC GRADIENT MAP (3/18/05)	SCALE 1"=30'	

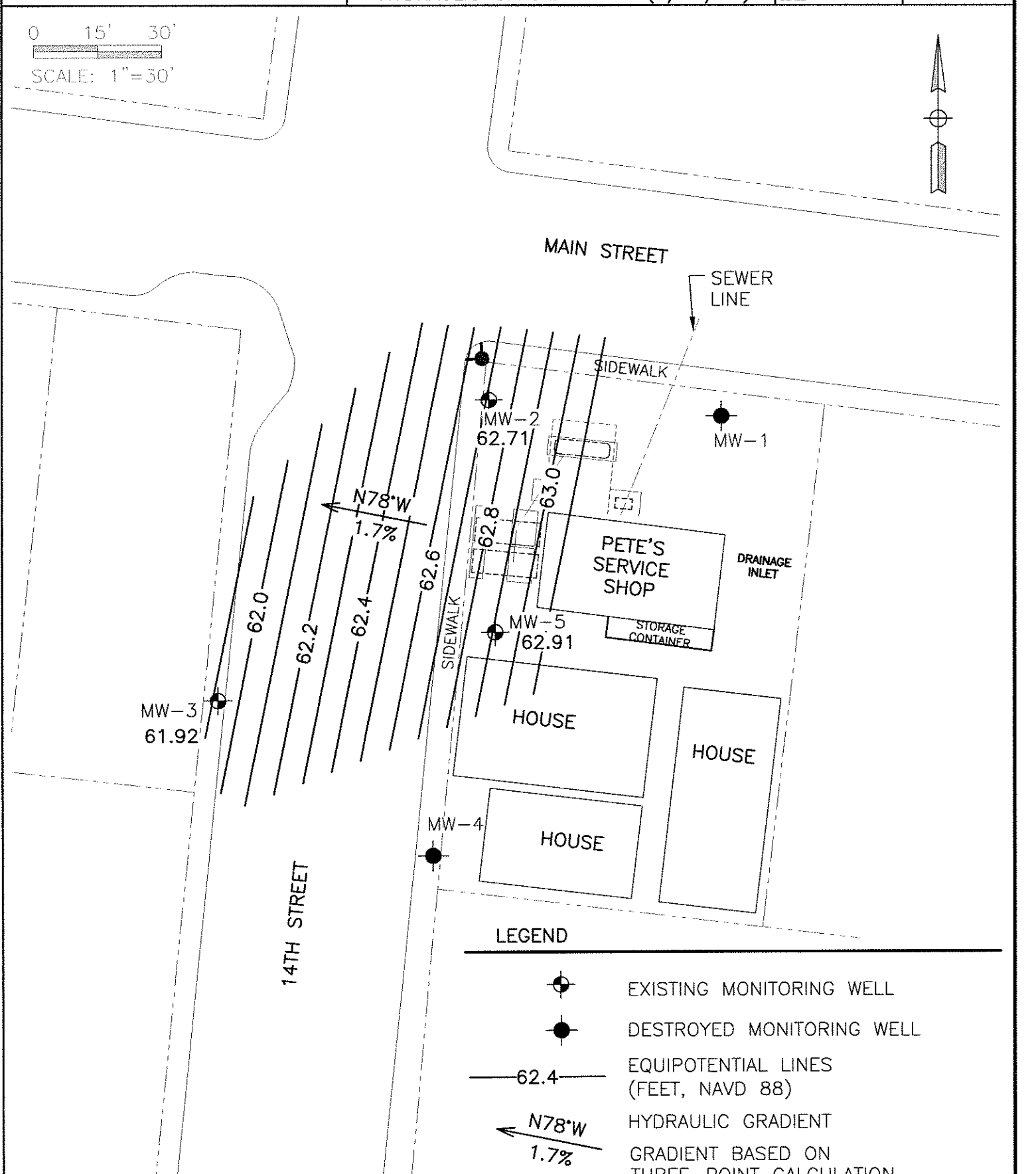

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TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Pete's Service, Fortuna, California
LACO No. 4858.00; LOP No.12517

WELL/ Sample Date	Groundwater Measurements *Well Head Elevation (feet, NAVD88)	Ground water Elevation (feet, NAVD88)	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)	Other Analytes (µg/L)
MW-1	65.63											
6/12/2001		57.08	8.55	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
1/15/2002		60.75	4.88	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
2/22/2002		60.95	4.68	---	---	---	---	---	---	---	---	---
3/18/2002		60.96	4.67	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
4/23/2002		60.58	5.05	---	---	---	---	---	---	---	---	---
5/20/2002		59.91	5.72	---	---	---	---	---	---	---	---	---
6/24/2002		57.64	7.99	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
7/11/2002		57.23	8.40	---	---	---	---	---	---	---	---	---
8/8/2002		56.68	8.95	---	---	---	---	---	---	---	---	---
9/13/2002	69.41											
9/20/2002		59.71	9.70	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
10/11/2002		58.90	10.51	---	---	---	---	---	---	---	---	---
1/3/2003		65.66	3.75	---	---	---	---	---	---	---	---	---
3/21/2003		64.88	4.53	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-20
6/17/2003		63.05	6.36	---	---	---	---	---	---	---	---	---
9/9/2003		60.20	9.21	**64**	---	---	ND<0.50	ND<0.50	ND<0.50	**0.67**	ND<1.0	ND<1.0-20
12/23/2003		64.74	4.67	---	---	---	---	---	---	---	---	---
3/9/2004		64.50	4.91	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-10
3/31/2004	destroyed											
MW-2	64.96											
6/12/2001		56.84	8.12	**77**	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
1/15/2002		60.48	4.48	**85**	---	---	**2.2**	ND<0.50	**0.62**	**1.4**	ND<0.50	ND<0.50-50
2/22/2002		61.31	3.65	---	---	---	---	---	---	---	---	---
3/18/2002		60.75	4.21	ND<50	ND<50	**240**	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
4/23/2002		59.61	5.35	---	---	---	---	---	---	---	---	---
5/20/2002		59.89	5.07	---	---	---	---	---	---	---	---	---
6/24/2002		57.46	7.5	**81**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
7/11/2002		57.94	7.02	---	---	---	---	---	---	---	---	---
8/8/2002		57.54	7.42	---	---	---	---	---	---	---	---	---
9/13/2002	68.75											
9/20/2002		59.36	9.39	**84**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
10/11/2002		58.73	10.02	---	---	---	---	---	---	---	---	---
1/3/2003		65.57	3.18	**87**	ND<50	ND<170	**2.1**	**0.92**	**2.6**	**3.77**	ND<1.0	ND<0.50-50
3/21/2003		64.49	4.26	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-20
6/17/2003		62.08	6.67	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20
9/9/2003		61.03	7.72	**82**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20
12/23/2003		64.25	4.50	**110**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-20
3/9/2004		63.74	5.01	**110**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-10
6/25/2004		60.99	7.76	**70**	---	---	**1.7**	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-10
9/7/2004		59.24	9.51	**57**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-10
12/22/2004		62.75	6.00	---	---	---	---	---	---	---	---	---
3/18/2005		62.71	6.04	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	---

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Pete's Service, Fortuna, California
LACO No. 4858.00; LOP No.12517

WELL/ Sample Date	Groundwater Measurements *Well Head Elevation (feet, NAVD88)	Ground water Elevation (feet, NAVD88)	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)	Other Analytes (µg/L)
MW-3	64.35											
6/12/2001		56.03	8.32	ND<50	ND<50	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
1/15/2002		59.83	4.52	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**9.5**	ND<0.50-50
2/22/2002		61.12	3.23	---	---	---	---	---	---	---	---	---
3/18/2002		60.09	4.26	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**9.0**	ND<0.50-50
4/23/2002		58.91	5.44	---	---	---	---	---	---	---	---	---
5/20/2002		58.96	5.39	---	---	---	---	---	---	---	---	---
6/24/2002		56.87	7.48	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**9.9**	ND<0.50-50
7/11/2002		57.15	7.20	---	---	---	---	---	---	---	---	---
8/8/2002		56.93	7.42	---	---	---	---	---	---	---	---	---
9/13/2002	68.12											
9/20/2002		58.86	9.26	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**9.2**	ND<0.50-50
10/11/2002		58.21	9.91	---	---	---	---	---	---	---	---	---
1/3/2003		65.21	2.91	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**6.1**	ND<0.50-50
3/21/2003		63.73	4.39	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**5.1**	ND<0.50-20
6/17/2003		61.18	6.94	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**7.1**	ND<1.0-20
9/9/2003		59.61	8.51	**67**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**2.2**	ND<1.0-20
12/23/2003		63.94	4.18	**62**	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**6.2**	ND<1.0-20
3/9/2004		62.96	5.16	**57**	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**5.7**	ND<1.0-10
6/25/2004		60.46	7.66	**51**	---	---	**0.80**	ND<0.50	ND<0.50	ND<0.50	**1.1**	ND<1.0-10
9/7/2004		58.85	9.27	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**1.5**	ND<1.0-10
12/22/2004		61.60	6.52	---	---	---	---	---	---	---	---	---
3/18/2005		61.92	6.20	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**4.4**	---
MW-4	65.01											
6/12/2001		56.29	8.72	**1,600**	ND<50	---	**2.0**	**2.8**	**23**	**63**	ND<0.50	ND<0.50-50
1/15/2002		60.76	4.25	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
2/22/2002		62.16	2.85	---	---	---	---	---	---	---	---	---
3/18/2002		61.17	3.84	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
4/23/2002		59.64	5.37	---	---	---	---	---	---	---	---	---
5/20/2002		59.29	5.72	---	---	---	---	---	---	---	---	---
6/24/2002		56.80	8.21	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
7/11/2002		56.60	8.41	---	---	---	---	---	---	---	---	---
8/8/2002		57.57	7.44	---	---	---	---	---	---	---	---	---
9/13/2002	68.77											
9/20/2002		58.77	10.00	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
10/11/2002		58.12	10.65	---	---	---	---	---	---	---	---	---
1/3/2003		66.56	2.21	---	---	---	---	---	---	---	---	---
3/21/2003		63.79	4.98	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-20
6/17/2003		61.81	6.96	---	---	---	---	---	---	---	---	---
												TAME = 1.2 All others
9/9/2003		59.48	9.29	**96**	---	---	ND<0.50	ND<0.50	ND<0.50	**2.39**	**3.3**	ND<1.0-20
12/23/2003		64.61	4.16	---	---	---	---	---	---	---	---	---
3/9/2004		64.09	4.68	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<1.0	ND<1.0-10
3/31/2004	destroyed											

TABLE 1: WELL DATA AND GROUNDWATER ANALYTICAL RESULTS
Pete's Service, Fortuna, California
LACO No. 4858.00; LOP No.12517

WELL/ Sample Date	Groundwater Measurements *Well Head Elevation (feet, NAVD88)	Ground water Elevation (feet, NAVD88)	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)	Other Analytes (µg/L)
MW-5	65.44											
6/12/2001		56.50	8.94	ND<50	**290**	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	**14**	ND<0.50-50
1/15/2002		60.98	4.46	ND<50	---	---	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	ND<0.50-50
2/22/2002		62.22	3.22	---	---	---	---	---	---	---	---	---
3/18/2002		61.34	4.10	**930**	**52**	ND<170	ND<0.50	**1.5**	**61**	**150**	ND<0.50	ND<0.50-50
4/23/2002		59.97	5.47	---	---	---	---	---	---	---	---	---
5/20/2002		59.85	5.59	---	---	---	---	---	---	---	---	---
6/24/2002		57.03	8.41	**2,400**	**98**	ND<170	**1.1**	**3.8**	**120**	**180**	ND<1.0	ND<0.50-50
7/11/2002		57.12	8.32	---	---	---	---	---	---	---	---	---
8/8/2002		57.90	7.54	---	---	---	---	---	---	---	---	---
9/13/2002	69.20											
9/20/2002		58.99	10.21	**2,000**	**58**	ND<170	**2.7**	**9.5**	**180**	**342.8**	ND<2.5	**Ethanol - 9.7**
10/11/2002		58.29	10.91	---	---	---	---	---	---	---	---	---
1/3/2003		66.66	2.54	**71**	ND<50	ND<170	ND<0.50	ND<0.50	**3.5**	**6.7**	ND<1.0	ND<0.50-20
3/21/2003		64.96	4.24	ND<50	ND<50	ND<170	ND<0.50	ND<0.50	**1.9**	**3.9**	ND<1.0	ND<0.50-20
6/17/2003		62.21	6.99	**210**	ND<50	ND<170	ND<0.50	ND<0.50	**3.6**	**6.2**	ND<1.0	ND<1.0-20
9/9/2003		59.93	9.27	**1,500**	ND<50	ND<170	**0.94**	**0.79**	**71**	**91**	ND<1.0	ND<1.0-20
12/23/2003		64.85	4.35	**58**	ND<50	ND<170	ND<0.50	ND<0.50	**1.5**	**2.0**	ND<1.0	ND<1.0-20
3/9/2004		64.33	4.87	**58**	ND<50	ND<170	ND<0.50	ND<0.50	**1.1**	**1.8**	ND<1.0	ND<1.0-10
6/25/2004		60.70	8.50	**340**	ND<50	ND<170	**0.76**	ND<0.50	**7.6**	**6.9**	ND<1.0	ND<1.0-10
9/7/2004		58.89	10.31	**680**	**63**	ND<170	**0.68**	ND<0.50	**24**	**33**	ND<1.0	ND<1.0-10
12/22/2004		62.51	6.69	**260**	ND<50	ND<170	ND<0.50	ND<0.50	**4.3**	**5.1**	ND<1.0	ND<1.0-10
3/18/2005		62.91	6.29	**68**	ND<50	ND<170	ND<0.50	ND<0.50	**0.62**	**1.7**	ND<1.0	---

NOTES:

All results reported in µg/L = micrograms per liter
TPHg = total petroleum hydrocarbons as gasoline
TPHd - total petroleum hydrocarbons as diesel
TPHmo - total petroleum hydrocarbons as motor oil
The reported xylenes concentration is a total of m,p-xylene and o-xylene
Other Anlaytes include the Fuel Oxyenates:
MTBE = methyl tertiary butyl ether
DIPE = di-isopropyl ether
ETBE = ethyl tertiary butyl ether
TBA = tertiary butyl alcohol
TAME = tertiary amyl methyl ether
ND<50 = non-detect at the reporting limits shown
Bold results indicate analyte detection
* Top of casing elevations obtained from Clearwater Group's Groundwater Monitoring Reports
All samples submitted for a silica gel sleanup were initailly analyzed for diesel/motor oil.
The samples showing no detectable levels of the analytes were not subfectd to the cleanup procedure.
All gasoline results reported represent the amount of material in the gasoline range of molecular weights only.

TABLE 2: HISTORICAL GROUNDWATER GRADIENTS
Former Pete's Automotive Service, 1409 Main Street, Fortuna, California
LACO No. 4858.01; LOP No. 12517

Date	Direction	Gradient (%)
12/29/97*	N78°W	1.2
04/7/98*	N56°W	2.6
06/25/98*	N89°W	1.9
09/21/98*	S12°W	0.5
01/15/02	S87°W	1.7
04/23/02	S76°W	1.6
05/20/02	S47°W	1.9
06/24/02	S26°W	0.7
07/11/02	S31°E	1.1
08/08/02	S60°W	1.5
09/20/02	S23°W	0.8
10/11/02	S11°W	1
01/03/03	N33°W	2.4
03/21/03	S36°W	0.8
06/17/03	S70°W	1.4
09/09/03	S28°W	0.72
12/23/03	N65°W	1.09
03/09/04	N74°W	1.8
06/25/04	S21°W	0.58
09/07/04	S3°E	0.64
12/22/04	S70°W	1.33
03/18/05	N78°W	1.7

*Gradients calculated for this site by Clearwater Group, Inc.

Attachment 1

ATTACHMENT 1: ABBREVIATIONS USED IN TABULATED DATA
Former Pete's Automotive Service
1409 Main Street, Fortuna
LACO No. 4858.01; LOP No. 12517

Groundwater elevation calculated by: Well elevation - Depth to groundwater.
ND = Not detected at or above the method detection limit shown.
--- = Not analyzed or available.
ug/l = micrograms per liter
mg/L = milligrams per liter
pH = measure of acidity or basicity of a solution; accuracy reange of pH meter is ± 0.2 pH
T = temperature; accuracy range of temperature meter is ± 0.5°C
Ecw = electrical conductivity; accuracy range of Ecw meter is ± 20 µmohs
ORP = oxidation-reduction potential; accuracy range of ORP meter is ± 2 mV
DO = dissolved oxygen; accuracy range of DO meter is ± 0.3 mg/L
µmohs = micromohs, a measure of electrical resistance
mV = millivolts
bgs = below ground surface
DTW = depth to water
dhp = down-hole pump
TPHg = total petroleum hydrocarbons as gasoline
TPHd = total petroleum hydrocarbons as diesel
TPHmo = total petroleum hydrocarbons as motor oil
Oxygenates (fuel additives): methyl tertiary butyl ether (MTBE), di-isopropyl ether (DIPE), ethyl tertiary butyl ether (ETBE), tertiary amyl methyl ether (TAME) and tert-butanol (TBA).

Attachment 2

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

Project Name: Former Pete's Service
Project No.: 4858.01
Date: 3-18-05
Golbal ID No.: T0602300393
PM: TDN

Tech: SJD
Mob/Demob time: .25 / .25
Travel time: .75
Time on site: 9:00
Time off site: 10:45
Mileage: 22

WELL No.:	MW2		MW3		MW5					
DIAMETER (in)	2.0		2.0		2.0					
SCREENED INTERVAL (ft)	4-19.5		4-19.5		4-19.5					
DEPTH TO WATER (ft)	6.04		6.20		6.29					
	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL	INITIAL	FINAL
FIELD INTRINSICS: pH	8.9	6.1	6.2	6.0	6.5	6.1				
TEMP (°C)	14.3	15.3	14.1	15.0	14.4	14.3				
Ecw (µmohs)	279	241	314	298	188	185				
ORP (mV)	-35	-54	-99	Or	16	41				
DO (mg/L)	1.17	0.58	1.49	0.56	1.09	0.52				
OTHER (units)	—		—		—					
PURGE: TIME	9:17	9:29	9:44	9:52	10:08	10:16				
METHOD (DHP/CB/B)	DHP		DHP		DHP					
RATE (L/m)	0.17		0.19		0.19					
VOLUME (L)	2.0		1.50		1.50					
COLOR	CLEAR	CLEAR	CLEAR	CLEAR	CLOUDY	CLOUDY				
ODOR	LIGHT SULFUR		MED. SULFUR		NONE					
INTAKE DEPTH (FEET)	12.0		12.0		12.0					
SAMPLE: TIME	9:30		9:53		10:17					
METHOD (DHP/CB/B)	DHP		DHP		DHP					
ANALYTES	8260 List 4		8260 List 4		8260 List 4; TPHd/mo w/SGC					
TOTAL DRAWDOWN (FEET)	0.57		0.23		0.47					
REMARKS	—		—		—					
WELL CONDITION	good		good		good					

DEPTH MEASUREMENTS ARE REFERENCED TO TOP OF CASING

WASTE DRUMS: 2 DOT DRUMS ONSITE 1 SOIL 1/4 FULL 1 DECONT PURGE H2O 1/2 FULL

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

REVISED:3/4/2005

CONSULTING ENGINEERS
TEL 707.443.5054
FAX 707.443.0553

Project Name: FORMER PETE'S SERVIC
Project No.: 4858.01
Tech: SJD
Date: 3-18-05

METER ACCURACY RANGE

	+/- 0.2 pH	+/- 0.5 °C	+/- 20 µmohs	+/- 2 mv	+/- 0.3 mg/L

WELL ID: MW2

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:19	7.6	14.6	269	-45	1.04
:21	6.8	14.8	260	-47	1.14
9:23	6.4	15.1	253	-49	1.01
9:25	6.1	15.2	246	-52	0.82
:27	6.1	15.3	242	-54	0.62
:29	6.1	15.3	241	-54	0.58

WELL ID: MW3

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
9:46	6.1	14.5	308	Ur	1.32
9:48	6.1	14.6	306	Ur	0.74
9:50	6.0	14.9	304	Ur	0.60
9:52	6.0	15.0	298	Ur	0.56

WELL ID: MW5

TIME	pH	TEMP (°C)	Ecw (µmohs)	ORP (mV)	DO (mg/L)
0:10	6.2	14.2	188	25	0.81
0:12	6.1	14.1	187	34	0.57
0:14	6.1	14.2	185	40	0.49
0:16	6.1	14.3	185	41	0.52

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)

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

Project Name: Former Pete's Service
Project No.: 4858.01
Tech: SJD
Date: 3-18-05

WELL ID: MW2		WELL ID: MW3		WELL ID: MW5		WELL ID:		WELL ID:		WELL ID:	
TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)	TIME	DTW (ft)
9:05	6.04	9:08	6.20	9:06							
9:15	6.04	9:40	6.20								

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)

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: Pete Purdew
Results & Invoice to:
Address: 1409 Main Street
Fortuna, CA 95540
Phone: 707-725-9129
Copies of Report to: Tim Nelson -LACO
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: 4858.01
Project Name: Pete's Service
Purchase Order Number: TASK 3020

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List+ (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd/mo w/SGC (CONTAINER 7, PRESERVATIVE –)	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4858-MW2-W	3-18-05	AM	GW	3		GEOTRACKER
	4858-MW3-W	↓	↓	↓	3		
	4858-MW5-W				3	1	
	4858-QCTB-W				1		

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

Attachment 3

NORTH COAST LABORATORIES LTD.

DRG
TDN

April 01, 2005

Pvt. cust. paying on pickup

Order No.: 0503443
Invoice No.: 49075
PO No.: TASK 3020
ELAP No. 1247-Expires July 2006

Attn: Pete Purdew

RE: 4858.01, Pete's Service

SAMPLE IDENTIFICATION

Fraction	Client Sample Description
01A	4858-MW2-W
02A	4858-MW3-W
03A	4858-MW5-W
03D	4858-MW5-W
04A	4858-QCTB-W

ND = Not Detected at the Reporting Limit

Limit = Reporting Limit

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

RECEIVED
LACO ASSOCIATES
APR - 5 2005
BY:

REPORT CERTIFIED BY

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

5680 West End Road • Arcata California 95521-9202 • 707-822-4649 • FAX 707-822-6831

Printed on Recycled Paper

North Coast Laboratories, Ltd. Date: *01-Apr-05*

CLIENT: Pvt. cust. paying on pickup
Project: 4858.01, Pete's Service
Lab Order: 0503443

CASE NARRATIVE

The sample submitted for a silica gel cleanup was initially analyzed for diesel/motor oil. The sample showed no detectable levels of the analytes and was not subjected to the cleanup procedure.

Gasoline Components/Additives:
The gasoline value for sample 4858-MW5-W includes the reported gasoline components in addition to other peaks in the gasoline range.

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Date: 01-Apr-05
WorkOrder: 0503443

ANALYTICAL REPORT

Client Sample ID: 4858-MW2-W **Received:** 3/18/05 **Collected:** 3/18/05 0:00
Lab ID: 0503443-01A

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		3/28/05
Benzene	ND	0.50	µg/L	1.0		3/28/05
Toluene	ND	0.50	µg/L	1.0		3/28/05
Ethylbenzene	ND	0.50	µg/L	1.0		3/28/05
m,p-Xylene	ND	0.50	µg/L	1.0		3/28/05
o-Xylene	ND	0.50	µg/L	1.0		3/28/05
Surrogate: 1,4-Dichlorobenzene-d4	93.9	80.8-139	% Rec	1.0		3/28/05

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		3/28/05

Client Sample ID: 4858-MW3-W **Received:** 3/18/05 **Collected:** 3/18/05 0:00
Lab ID: 0503443-02A

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
Methyl tert-butyl ether (MTBE)	4.4	1.0	µg/L	1.0		3/28/05
Benzene	ND	0.50	µg/L	1.0		3/28/05
Toluene	ND	0.50	µg/L	1.0		3/28/05
Ethylbenzene	ND	0.50	µg/L	1.0		3/28/05
m,p-Xylene	ND	0.50	µg/L	1.0		3/28/05
o-Xylene	ND	0.50	µg/L	1.0		3/28/05
Surrogate: 1,4-Dichlorobenzene-d4	93.7	80.8-139	% Rec	1.0		3/28/05

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		3/28/05

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Date: 01-Apr-05
WorkOrder: 0503443

ANALYTICAL REPORT

Client Sample ID: 4858-MW5-W **Received:** 3/18/05 **Collected:** 3/18/05 0:00
Lab ID: 0503443-03A

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		3/28/05
Benzene	ND	0.50	µg/L	1.0		3/28/05
Toluene	ND	0.50	µg/L	1.0		3/28/05
Ethylbenzene	0.62	0.50	µg/L	1.0		3/28/05
m,p-Xylene	1.7	0.50	µg/L	1.0		3/28/05
o-Xylene	ND	0.50	µg/L	1.0		3/28/05
Surrogate: 1,4-Dichlorobenzene-d4	94.7	80.8-139	% Rec	1.0		3/28/05

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

Parameter	Result	Limit	Units	DF	Extracted	Analyzed
TPHC Gasoline	68	50	µg/L	1.0		3/28/05

Client Sample ID: 4858-MW5-W **Received:** 3/18/05 **Collected:** 3/18/05 0:00
Lab ID: 0503443-03D

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	3/23/05	3/24/05
TPHC Motor Oil	ND	170	µg/L	1.0	3/23/05	3/24/05

Client Sample ID: 4858-QCTB-W **Received:** 3/18/05 **Collected:** 3/18/05 0:00
Lab ID: 0503443-04A

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		3/28/05
Benzene	ND	0.50	µg/L	1.0		3/28/05
Toluene	ND	0.50	µg/L	1.0		3/28/05
Ethylbenzene	ND	0.50	µg/L	1.0		3/28/05
m,p-Xylene	ND	0.50	µg/L	1.0		3/28/05
o-Xylene	ND	0.50	µg/L	1.0		3/28/05
Surrogate: 1,4-Dichlorobenzene-d4	94.0	80.8-139	% Rec	1.0		3/28/05

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		3/28/05

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North Coast Laboratories, Ltd.

Date: 01-Apr-05

CLIENT: Pvt. cust. paying on pickup
Work Order: 0503443
Project: 4858.01, Pete's Service

QC SUMMARY REPORT

Method Blank

Sample ID: **MB-3/28/05** Batch ID: **R34096** Test Code: **8260OXYW** Units: **µg/L** Analysis Date: **3/28/05 3:46:00 AM** Prep Date:
Client ID: Run ID: **ORGCMS3_050328B** SeqNo: **493334**

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									
Benzene	ND	0.50									
Toluene	0.1662	0.50									J
Ethylbenzene	0.1377	0.50									J
m,p-Xylene	0.2622	0.50									J
o-Xylene	0.1653	0.50									J
1,4-Dichlorobenzene-d4	0.933	0.10	1.00	0	93.3%	81	139	0			

Sample ID: **MB-3/28/05** Batch ID: **R34094** Test Code: **GASW-MS** Units: **µg/L** Analysis Date: **3/28/05 3:46:00 AM** Prep Date:
Client ID: Run ID: **ORGCMS3_050328A** SeqNo: **493299**

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

Sample ID: **MB-13213** Batch ID: **13213** Test Code: **TPHDMW** Units: **µg/L** Analysis Date: **3/24/05 12:51:16 PM** Prep Date: **3/23/05**
Client ID: Run ID: **ORGC7_050324A** SeqNo: **492698**

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: 01-Apr-05

CLIENT: Pvt. cust. paying on pickup
Work Order: 0503443
Project: 4858.01, Pete's Service

QC SUMMARY REPORT

Laboratory Control Spike

Sample ID: **LCS-05204** Batch ID: **R34096** Test Code: **8260OXYW** Units: **µg/L** Analysis Date: **3/28/05 12:23:00 PM** Prep Date:
Client ID: Run ID: **ORGCMS3_050328B** SeqNo: **493331**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19.55	1.0	20.0	0	97.8%	80	120	0			
Benzene	19.32	0.50	20.0	0	96.6%	78	117	0			
Toluene	19.14	0.50	20.0	0	95.7%	80	120	0			
Ethylbenzene	20.41	0.50	20.0	0	102%	80	120	0			
m,p-Xylene	40.93	0.50	40.0	0	102%	80	120	0			
o-Xylene	21.43	0.50	20.0	0	107%	80	120	0			
1,4-Dichlorobenzene-d4	0.962	0.10	1.00	0	96.2%	81	139	0			

Sample ID: **LCSD-05204** Batch ID: **R34096** Test Code: **8260OXYW** Units: **µg/L** Analysis Date: **3/28/05 12:48:00 PM** Prep Date:
Client ID: Run ID: **ORGCMS3_050328B** SeqNo: **493332**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	19.71	1.0	20.0	0	98.5%	80	120	19.6	0.803%	20	
Benzene	19.28	0.50	20.0	0	96.4%	78	117	19.3	0.199%	20	
Toluene	19.17	0.50	20.0	0	95.8%	80	120	19.1	0.165%	20	
Ethylbenzene	20.59	0.50	20.0	0	103%	80	120	20.4	0.856%	20	
m,p-Xylene	40.80	0.50	40.0	0	102%	80	120	40.9	0.311%	20	
o-Xylene	21.90	0.50	20.0	0	109%	80	120	21.4	2.18%	20	
1,4-Dichlorobenzene-d4	0.971	0.10	1.00	0	97.1%	81	139	0.962	0.894%	20	

Sample ID: **LCS-05205** Batch ID: **R34094** Test Code: **GASW-MS** Units: **µg/L** Analysis Date: **3/28/05 2:05:00 AM** Prep Date:
Client ID: Run ID: **ORGCMS3_050328A** SeqNo: **493296**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	969.5	50	1,000	0	96.9%	80	120	0			

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: Pvt. cust. paying on pickup
Work Order: 0503443
Project: 4858.01, Pete's Service

QC SUMMARY REPORT

Laboratory Control Spike Duplicate

Sample ID: **LCSD-05205** Batch ID: **R34094** Test Code: **GASW-MS** Units: **µg/L** Analysis Date: **3/28/05 2:30:00 AM** Prep Date:
Client ID: Run ID: **ORGCMS3_050328A** SeqNo: **493297**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Gasoline	969.3	50	1,000	0	96.9%	80	120	970	0.0160%	20	

Sample ID: **LCS-13213** Batch ID: **13213** Test Code: **TPHDMW** Units: **µg/L** Analysis Date: **3/24/05 10:59:55 AM** Prep Date: **3/23/05**
Client ID: Run ID: **ORGC7_050324A** SeqNo: **492695**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	578.5	50	500	0	116%	81	156	0			
TPHC Motor Oil	1,134	170	1,000	0	113%	90	144	0			

Sample ID: **LCSD-13213** Batch ID: **13213** Test Code: **TPHDMW** Units: **µg/L** Analysis Date: **3/24/05 11:18:29 AM** Prep Date: **3/23/05**
Client ID: Run ID: **ORGC7_050324A** SeqNo: **492696**

Analyte	Result	Limit	SPK value	SPK Ref Val	% Rec	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
TPHC Diesel (C12-C22)	587.3	50	500	0	117%	81	156	578	1.52%	15	
TPHC Motor Oil	1,177	170	1,000	0	118%	90	144	1,130	3.70%	15	

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

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

Chain of Custody

LABORATORY NUMBER: 0503443

Attention: Pete Purdew
Results & Invoice to:
Address: 1409 Main Street
Fortuna, CA 95540
Phone: 707-725-9129
Copies of Report to: Tim Nelson -LACO
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: 4858.01
Project Name: Pete's Service
Purchase Order Number: TASK 3020

LAB ID	SAMPLE ID	DATE	TIME	MATRIX*	ANALYSIS: 8260 List+ (CONTAINER 9, PRESERVATIVE b)	ANALYSIS: TPHd/mo w/SGC (CONTAINER 7, PRESERVATIVE –)	SAMPLE CONDITION/SPECIAL INSTRUCTIONS
	4858-MW2-W	3-18-05	AM	GW	3		GEOTRACKER
	4858-MW3-W	↓	↓	↓	3		
	4858-MW5-W				3	1	
	4858-QCTB-W				1		

Cold/intact

RELINQUISHED BY (Sign & Print)	DATE/TIME	RECEIVED BY (Sign)	DATE/TIME
STEVE DAVIS	4:30 pm 3-18-05	R. Thompson	3/18/05 1650

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