BLUE ROCK
ENVIRONMENTAL, INC.

Mr. Justin M. Shobe
Environmental Health Technician I
Humboldt County Health Department
Division of Environmental Health
100 H Street, Suite 100
Eureka, California 95501

August 7, 2006

Subject: **Third Quarter 2006 Groundwater Monitoring Report**
Former Totem Pole Market
580 South Fortuna Boulevard, Fortuna, CA
HCDEH LOP No. 12028
Blue Rock Project No. NC-40

Dear Mr. Shobe,

This document presents data collected during recent groundwater monitoring activities for the referenced project at 580 South Fortuna Boulevard, Fortuna, Humboldt County, California (site) (Figure 1), and it was prepared for Valerie Ellis by Blue Rock Environmental, Inc. (Blue Rock).

Background

Site Description
The former Totem Pole Market is located on the corner of South Fortuna Boulevard and 1st Street in Fortuna, California. The site is located in an area of low topographic relief and is considered part of the Eel River flood plain (Figure 1). The site contains one single-story building. The site formerly contained two (2) 1,000-gallon gasoline and one (1) 550-gallon used oil underground storage tanks (USTs) (Figure 2).

UST Removal & Overexcavation
In 1977, Beacom Construction (Beacom) of Fortuna, California, on behalf of Mr. Marvin Fork, closed the two 1,000 gallon USTs in place by filling with a cement slurry under regulations of the time. In 1988, an Unauthorized Release Form was filed by Mr. Fork with Humboldt County. In 1990, LACO Associates (LACO) was retained to evaluate the site for possible overexcavation. LACO subsequently supervised the excavation of three test pits to determine the feasibility of overexcavation.

In March 1994, the two (2) 1,000-gallon gasoline USTs were removed by Haberstock Construction. At that time, the third 550-gallon used oil UST was discovered and removed. The three (3) USTs were transported to Erickson Inc of Richmond, California. Following UST removal, approximately 180 cubic yards of petroleum hydrocarbon impacted soil was overexcavated and disposed of at B&J landfill in Vacaville, California.

Site Investigation History

Subsurface investigation activities have been ongoing at the site since 1995. A total of approximately 27 soil borings have been drilled and six monitoring wells (MW-1, MW-2, MW-3, MW-4S, MW-4D and MW-5D) had been installed at the site (Figure 2). Groundwater monitoring has been ongoing since the wells were installed. Following the installation of MW-4S, 4D and 5D, it was learned that two water bearing zones appeared to be present beneath the site. This prompted the destruction of MW-1 through MW-3 (screened through both zones) and the installation of two additional nested well pairs MW-1D, 1S, 3D and 3S. Wells MW-1S, MW-3S, and MW-4S are screened from ~4-9 ft bgs, which will be referred to as the "A-Zone". Wells MW-1D, MW-3D, MW-4D, and MW-5D are screened from ~14-19 ft bgs, which will be referred to as the "B-Zone".

Historical well construction data are summarized in Table 1. Historical soil and groundwater sample data are summarized in Tables 2, 3, and 4, respectively. Sample data from nearby private wells are summarized in Table 5.

Summary of Petroleum Type

The predominant types of impact that have been detected in the subsurface include total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene, and xylenes (BTEX), and the fuel oxygenates MTBE, TBA, ETBE, and TAME. TPH as diesel (TPHd) has also been detected, but at lower levels.

Groundwater Monitoring – Third Quarter 2006

Groundwater Monitoring Field and Laboratory Activities

On July 7, 2006, the six wells (MW-1S, MW-1D, MW-3S, MW-3D, MW-4S, MW-4D) were gauged and sampled. MW-5D was only gauged per the HCDEH letter dated June 2, 2006.

Prior to sampling, an electronic water level indicator was used to gauge depth to water in each well, accurate to within ±0.01-foot. All wells were checked for the presence of light non-aqueous phase liquid (LNAPL) petroleum prior to purging. No measurable thicknesses of LNAPL were observed on groundwater in any of the wells.

In preparation for sampling, the wells were purged of groundwater until sampling parameters (temperature, pH, and conductivity) stabilized.

Following recovery of water levels to approximately 80% of their static levels, groundwater samples were collected from the wells using disposable polyethylene bailers and transferred to laboratory supplied containers. Sample containers were labeled, documented on a chain-of-custody form, and placed on ice in a cooler for transport to the project laboratory.

Purging instruments were cleaned between use by an Alconox® wash followed by double rinse in clean tap water to prevent cross-contamination. Purge and rinseate water was stored on-site in labeled 55-gallon drums pending future removal and disposal.

Groundwater monitoring and well purging information is presented on Gauge Data/Purge Calculations and Purge Data sheets (attached).

Groundwater samples were analyzed by Kiff Analytical (Kiff), a DHS-certified laboratory, located in Davis, California, for the following analytes:

- TPHd by EPA Method 8015M with silica gel cleanup
- TPHg EPA Method 8260B
- BTEX and MTBE by EPA Method 8260B

Groundwater Flow Direction and Gradient (A-Zone 4-9 ft bgs)
Static groundwater was present beneath the site in MW-1S, 3S, and 4S at depths ranging from approximately 3.82 (MW-3S) to 4.53 (MW-4S) feet bgs. Gauging data, combined with top of casing elevation data, were used to calculate groundwater elevation, and to generate a groundwater elevations and gradient map. The groundwater flow direction was calculated to be northwest at 0.046 ft/ft in this zone (Figure 3a). This flow direction is consistent with previous monitoring event using these wells in the first two quarters in 2006.

Groundwater Flow Direction and Gradient (B-Zone 14-19 ft bgs)
Static groundwater was present beneath the site in MW-1D, 3D, and 4D at depths ranging from approximately 13.89 (MW-1D) to 12.35 (MW-5D) feet bgs. Gauging data, combined with top of casing elevation data, were used to calculate groundwater elevation, and to generate a groundwater elevations and gradient map. The groundwater flow direction was calculated to be north-northwest at 0.012 ft/ft in this zone (Figure 3b). This flow direction is not consistent with the previous two monitoring events using these wells which have indicated a groundwater flow direction to the south-southwest.

Groundwater Sample Analytical Results

Groundwater Sample Analytical Results (A-Zone 4-9 ft bgs)

LNAPL:	none
TPHd:	<50 µg/L (MW-4S) to < 3,000 µg/L (MW-3S)
TPHg:	<50 µg/L (MW-4S) to 1,900 µg/L (MW-3S)
Benzene:	<0.50 µg/L (MW-1S/4S) to 1.7 µg/L (MW-3S)
MTBE:	<0.50 µg/L (all wells)

Groundwater Sample Analytical Results (B-Zone 14-19 ft bgs)

LNAPL:	none
TPHd:	<50 µg/L (MW-3D, MW-4D) to <800 µg/L (MW-1D)
TPHg:	<50 µg/L (MW-4D) to 6,300 µg/L (MW-1D)
Benzene:	<0.50 µg/L (MW-4D) to 620 µg/L (MW-1D)
MTBE:	<0.50 µg/L (several wells) to <1.5 µg/L (MW-1D)

Cumulative monitoring well groundwater sample data are summarized in Table 3, and cumulative grab groundwater sample data are summarized in Table 4. Cumulative groundwater sample data for the A- and B-Zones are shown on Figure 4a and 4b, respectively. Copies of the laboratory report and chain-of-custody form are attached.

Project Status and Recommendations

The site is currently being monitored on a quarterly basis per the HCDEH directives. The next quarterly sampling event is scheduled for October 2006.

- Blue Rock recommends continuation of a quarterly groundwater monitoring with groundwater samples analyzed for TPHg, BTEX and MTBE by EPA Method 8260B and TPHd by EPA Method 8015M.

- Blue Rock prepared and submitted a *Workplan for Additional Investigation* dated June 15, 2006 which outlined the installation of additional well pairs on the property to the north of MW-1S/1D and to the south of the former UST locations as requested by the HCDEH. Upon HCDEH approval, the submitted scope of work will be implemented.

References

LACO Associates Consulting Engineers. June 2005. *Subsurface Investigation Status Report and Groundwater Monitoring Report – Boring and Monitoring Well Installation and First Quarter 2005 Monitoring Results*. Former Totem Pole Market, Fortuna, CA.

Certification

This report was prepared under the supervision of a California Professional Geologist at Blue Rock. All statements, conclusions, and recommendations are based upon published results from past consultants, field observations by Blue Rock, and analyses performed by a state-certified laboratory as they relate to the time, location, and depth of points sampled by Blue Rock. Interpretation of data, including spatial distribution and temporal trends, are based on commonly used geologic and scientific principles. It is possible that interpretations, conclusions, and recommendations presented in this report may change, as additional data become available and/or regulations change.

Information and interpretation presented herein are for the sole use of the client and regulating agency. The information and interpretation contained in this document should not be relied upon by a third party.

The service performed by Blue Rock has been conducted in a manner consistent with the level of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area of the site. No other warranty, expressed or implied, is made.

If you have any questions regarding this project, please contact us at (707) 441-1934.

Sincerely,
Blue Rock Environmental, Inc.

Prepared by:

Andrew LoCicero
Project Scientist

Reviewed by:

Brian Gwinn, PG
Principal Geologist

PROFESSIONAL GEOLOGIST
BRIAN M. GWINN
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Attachments

Table 1: Well Construction Details
Table 2: Soil Analytical Data
Table 3: Groundwater Elevations and Analytical Data
Table 4: Cumulative Grab Groundwater Analytical Data
Table 5: Domestic Well Analytical Data

Figure 1: Site Location Map
Figure 2: Site Plan
Figure 3a: Groundwater Elevations and Gradient 7/7/06 (A-Zone 4-9 ft bgs)
Figure 3b: Groundwater Elevations and Gradient 7/7/06 (B-Zone 14-19 ft bgs)
Figure 4a: Cumulative Groundwater Sample Results (A-Zone 4-9 ft bgs)
Figure 4b: Cumulative Groundwater Sample Results (B-Zone 14-19 ft bgs)
Figure 5: TPHg in Soil (~3-10 ft bgs)

Blue Rock Gauge / Purge Calculations
Laboratory Reports and Chain-of-Custody Forms

Distribution

Val Ellis, PO Box 378, Miranda, CA 95553

Table 1
WELL CONSTRUCTION DETAILS
Former Totem Pole Market
508 South Fortuna Boulevard, Fortuna, California
Blue Rock Project No. NC-40

Monitoring Well ID	Date Intstalled	Intstalled by	Casing Diameter (inches)	Total Depth (feet)	Blank Interval (feet)	Screened Interval (feet)	Slot Size (inches)	Filter Pack (feet)	Bentonite Seal (feet)	Cement Grout (feet)
A-Zone Wells (~4-9 ft bgs)										
MW-1S	1/19/06	Blue Rock	2	9	0-4	4-9	0.01	3-9	2-3	0-2
MW-3S	1/19/06	Blue Rock	2	9	0-4	4-9	0.01	3-9	2-3	0-2
MW-4S	2/5/05	Laco	2	9	0-4	4-9	0.01	3-9	1-3	0-1
B-Zone Wells (~14-9 ft bgs)										
MW-1D	1/19/06	Blue Rock	2	19	0-14	14-19	0.01	13-19	12-13	0-12
MW-3D	1/19/06	Blue Rock	2	19	0-14	14-19	0.01	13-19	12-13	0-12
MW-4D	2/5/05	Laco	2	18	0-13	13-18	0.01	12-18	10-12	0-10
MW-5D	2/5/05	Laco	2	20	0-15	15-20	0.01	14-20	12-14	0-12
Destroyed Monitoring Wells										
MW-1*	6/25/96	Laco	2	15	0-5	5-15	0.01	4-15	2-4	0-2
MW-2*	6/25/96	Laco	2	15	0-5	5-15	0.01	4-15	2-4	0-2
MW-3*	6/25/96	Laco	2	15	0-5	5-15	0.01	4-15	2-4	0-2

* = well has been destroyed

Table 2
SOIL ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard, Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Depth (feet bgs)	Sample Date	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA, ETBE, DIPE, TAME (mg/kg)	Pb (mg/kg)
1990 Test Pits											
3472-1	--	11/6/90	--	<1	<0.005	<0.005	<0.005	<0.01	--	--	--
3472-2	--	11/6/90	--		--	--	--	--	--	--	**6.8**
3472-3	--	11/6/90	--	<1	<0.005	<0.005	<0.005	<0.01	--	--	--
3472-4	--	11/6/90	--		<0.005	<0.005	<0.005	<0.01	--	--	**5.7**
1994 Overexcavation											
1	4' - 5'	3/1/94	--	**1.1**	<0.005	<0.005	<0.005	<0.01	--	--	--
2	4' - 5'	3/1/94	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
3	4' - 5'	3/1/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
4	4' - 5'	3/1/94	--	--	--	--	--	--	--	--	7
5	5'	3/4/94	--	**3.2**	<0.005	<0.005	<0.02	<0.02	--	--	--
6	5'	3/4/94	--	**8.1**	<0.005	<0.005	<0.06	<0.06	--	--	--
7	5'	3/4/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
8	5'	3/4/94	--	**400**	<0.05	<0.3	<10	<10	--	--	--
9	5'	3/4/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
10	5'	3/4/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
11	5'	3/4/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
12	5'	3/4/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
13	--	3/5/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
14	--	3/5/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
15	5'	3/5/94		**670**	<0.1	<0.5	<10	<10	--	--	--
16	4'-5'	3/11/94	--	**3.9**	<0.005	<0.005	<0.1	<0.1	--	--	--
17	4'-5'	3/11/94	--	**750**	<0.25	<0.25	<0.1	<0.1	--	--	--
18	4'-5'	3/11/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
19	4'-5'	3/11/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
20	--	3/14/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
21	--	3/14/94	--	**1.5**	<0.005	<0.005	<0.005	<0.01	--	--	--
22	--	3/16/94	**35**	**670**	<1	<5	<5	<5	--	--	**7.7**
23	4'-5'	3/21/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
24	4'-5'	3/21/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
25	4'-5'	3/21/94	--	<1.0	<0.005	<0.005	<0.005	<0.01	--	--	--
26	4'-5'	3/22/94	--	**4,600**	<1.3	<10	<50	<50	--	--	--
27	4'-5'	3/22/94	--	**590**	<0.25	<2	<10	<10	--	--	--
28	4'-5'	3/22/94	--	**980**	**0.52**	<5	<20	<20	--	--	--
1A,1B,1C,1D	SP	4/1/94	--	**450**	<0.1	<1	<10	<10	--	--	**11**
2A,2B,2C,2D	SP	4/1/94	--	**1.4**	<0.005	<0.005	<0.005	<0.01	--	--	**17**
1996 Investigation											
B-1	3'	2/27/96	--	<1.0	<0.005	<0.005	<0.005	<0.01	<0.05	--	--
B-2	2.5'	2/27/96	--	<1.0	<0.005	<0.005	<0.005	<0.01	<0.05	--	--
B-2	8'	2/27/96	--	<1.0	<0.005	<0.005	<0.005	<0.01	<0.05	--	--
B-3	2'	2/27/96	--	**480**	**0.15**	<0.03	<5	<5	<0.5	--	--
B-3	7' - 9'	2/27/96	--	**370**	<.1	<0.2	<0.4	<0.4	<1	--	--
B-3	12' 14'	2/27/96	--	**50**	**0.049**	<0.05	<1	<1	<0.05	--	--
B-5	2.5'	2/27/96	--	**57**	**0.042**	<0.05	<0.5	<0.5	<0.05	--	--
B-5	7'	2/27/96	--	**5.1**	**0.037**	**0.012**	**0.056**	**0.243**	<0.05	--	--
B-6	2.5'	3/1/96	--	<1.0	<0.005	<0.005	<0.005	<0.01	<0.05	--	--
B-6	7'	3/1/96	--	<1.0	<0.005	<0.005	**0.014**	**0.029**	<0.05	--	--
MW-1	4.5'-6.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
MW-1	10'-11.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
MW-1	15'-16.5'	6/25/96	--	**30**	<0.025	<0.025	<0.5	<0.5	<0.05	--	**5.5**
MW-2	5'-6.5'	6/25/96	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	**5.2**
MW-2	10'-11.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
MW-2	15'-16.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
PZ-3	5'-6.5'	6/25/96	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	**5.7**
PZ-3	10'-11.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
PZ-3	15'-16.5'	6/25/96	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--

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Sample ID	Sample Depth (feet bgs)	Sample Date	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA, ETBE, DIPE, TAME (mg/kg)	Pb (mg/kg)
1997 Investigation											
B-1/1-15	5'	1/15/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-1/1-15	10'	1/15/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-2/1-15	3'	1/15/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-2/1-15	5'	1/15/97	--	**1.1**	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-2/1-15	10'	1/15/97	--	**4.9**	<0.005	<0.5	<0.5	<0.5	<0.05	--	--
B-3/1-15	5'	1/15/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-3/1-15	10'	1/15/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-4/1-15	5'	1/15/97	--	**1,700**	<.5	<2.5	<20	<20	<5	--	--
B-4/1-15	10'	1/15/97	--	<1.0	**0.0052**	<0.005	**0.02**	**0.027**	<0.05	--	--
B-5/1-15	3'	1/15/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-5/1-15	5'	1/15/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-5/1-15	10'	1/15/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-6/1-16	2.5'	1/16/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-6/1-16	5'	1/16/97	--	**910**	<0.5	<0.5	<10	<10	<5	--	--
B-7/1-16	1.5'	1/16/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-7/1-16	5'	1/16/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-8/1-16	3'	1/16/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-8/1-16	5'	1/16/97	--	**83**	**0.62**	**3.3**	**0.77**	**2.9**	<0.25	--	--
B-9/1-16	5'	1/16/97	--	**130**	<0.13	<0.13	<.5	<.5	<0.13	--	--
B-9/1-16	10'	1/16/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
B-9/1-16	15'	1/16/97	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
1999 Investigation											
3472 B1 - 029'	5'	2/17/99	--	**39**	<0.005	<0.005	<0.5	<0.5	<0.05	--	--
3472 B2 - 029'	5'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B2 - 029'	9'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B2 - 029'	14'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B2 - 029'	19'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B3 - 029'	5'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B3 - 029'	9'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B3 - 029'	14'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B3 - 029'	19'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B4 - 029'	5'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B4 - 029'	9'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B4 - 029'	14'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B4 - 029'	19'	2/17/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B5 - 029'	5'	2/18/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B5 - 029'	9'	2/18/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B5 - 029'	14'	2/18/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
3472 B5 - 029'	19'	2/18/99	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
2001 Investigation											
HB1-01	4.5'	1/5/01	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
HB2-01	4.5'	1/5/01	--	<1.0	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
HB3-01	4.5'	1/5/01	--	**1.7**	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
HB4-01	4.5'	1/5/01	--	**1**	<0.005	<0.005	<0.005	<0.005	<0.05	--	--
HB5-01	4.5'	1/5/01	--	**1,100**	<0.25	<0.25	<2	<2.5	<2.5	--	--
HA-EJFI	5'	6/21/01	--	**1.2**	<0.005	<0.005	<0.005	<0.005	<0.05	--	--

Table 2
SOIL ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard, Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Depth (feet bgs)	Sample Date	TPHd (mg/kg)	TPHg (mg/kg)	B (mg/kg)	T (mg/kg)	E (mg/kg)	X (mg/kg)	MTBE (mg/kg)	TBA, ETBE, DIPE, TAME (mg/kg)	Pb (mg/kg)
2005 Investigation											
B-10	8	2/2/05	**3.1**	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-10	12	2/2/05	**1.6**	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-10	16	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-10	20	2/2/05	**3.1**	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-11	4	2/2/05	**14**	**53**	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-11	8	2/2/05	**4**	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-11	12	2/2/05	**1.7**	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-11	16	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-11	20	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-12	4	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-12	8	2/2/05	**2.3**	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-12	12	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-12	16	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
B-12	20	2/2/05	<1.0	<1.0	<0.005	<0.005	<0.005	<0.01	<0.025	<0.01 -<0.5	--
2006 Investigation											
MW-1D@ 5'	5	1/19/06	**31**	**8.1**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01 -<0.005	--
MW-1D@ 10'	10	1/19/06	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.01 -<0.005	--
MW-1D@ 15'	15	1/19/06	**150**	**110**	**0.088**	<0.025	**0.36**	**0.40**	<0.025	<0.15 -<0.025	--
MW-1D@ 19'	19	1/19/06	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	0.0063[1] -<0.005	--
MW-1S@ 4'	4	1/19/06	**2,800**	**2,600**	<0.20	<0.20	<0.20	<0.20	<0.20	<0.20 - <0.90	--
MW-1S@ 9'	9	1/19/06	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--
MW-3D@ 5'	5	1/19/06	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--
MW-3D@ 10'	10	1/19/06	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--
MW-3D@ 15'	15	1/19/06	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--
MW-3D@ 19'	19	1/19/06	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	0.0064[1] -<0.005	--
MW-3S@ 4'	4	1/19/06	<1.0	<1.0	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	--
MW-3S@ 9'	9	1/19/06	**150**	**120**	**0.015**	<0.005	**0.040**	**0.085**	<0.005	<0.015 - <0.005	--

Notes

bgs: below ground surface
"--" Not analyzed, available or applicable
mg/kg = milligrams per kilogram
<###: Not detected above the method detection limit as shown
TPHg: Total petroleum hydrocarbons as gasoline by EPA Method 5030/8015M
TPHd: Total petroleum hydrocarbons as diesel by EPA Method 8015
BTEX: Benzene, toluene, ethylbenzene, xylenes by EPA Method 8020 or 8260B
MTBE: Methyl tertiary butyl ether by EPA 8020 or 8260B
Pb: Lead by EPA Method 6010

TBA: Tertiary butanol by EPA 8260B
DIPE: Di isopropyl ether by EPA 8260B
ETBE: Ethyl tertiary butyl ether by EPA 826
TAME: Tertiary amyl methyl ether by EPA 8
[1] : Concentration of TBA

Table 3
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard, Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Pb (µg/L)
A-Zone Wells (~4-9 ft bgs)																	
MW-1S	1/30/06	58.98	2.17	0.00	56.81	<200*	**260**	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
Screen	4/4/06	58.98	2.41	0.00	56.57	<800*	**1,700**	**0.52**	<0.5	**6.9**	<0.5	<0.5	--	--	--	--	--
4' - 9'	7/7/06	58.98	3.91	0.00	55.07	<800*	**1,300**	<0.5	<0.5	**5.4**	<0.5	<0.5	--	--	--	--	--
MW-3S	1/30/06	59.04	1.55	0.00	57.49	<100*	**200**	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
Screen	4/4/06	59.04	2.24	0.00	56.80	<300*	**800**	<0.5	<0.5	<0.5	**0.74**	<0.5	--	--	--	--	--
4' - 9'	7/7/06	59.04	3.82	0.00	55.22	<3,000*	**1,900**	**1.7**	<0.5	**0.67**	**1.8**	<0.5	--	--	--	--	--
MW-4S	2/28/05	58.15	3.39	0.00	54.76	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	ND	--
Screen	5/2/05	58.15	3.57	0.00	54.58	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	ND	--
4' - 9'	8/9/05	58.15	4.55	0.00	53.60	**67**	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--
	8/18/05	58.15	6.70	0.00	51.45	--	--	--	--	--	--	--	--	--	--	--	--
	12/14/05	58.15	3.95	0.00	54.20	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--
	1/30/06	58.15	3.44	0.00	54.71	<50*	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
	4/4/06	58.15	3.46	0.00	54.69	<50*	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
	7/7/06	58.15	4.53	0.00	53.62	<50*	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
B-Zone Wells (~14-19 ft bgs)																	
MW-1D	1/30/06	58.77	10.59	0.00	48.18	<1,000*	**4,600**	**96**	**1.4**	**47**	**120**	<0.5	--	--	--	--	--
Screen	4/4/06	58.77	10.08	0.00	48.69	<800*	**6,000**	**300**	**4.4**	**130**	**190**	<0.5	--	--	--	--	--
14' - 19'	7/7/06	58.77	13.89	0.00	44.88	<800*	**6,300**	**620**	**4.2**	**190**	**110**	<1.5	--	--	--	--	--
MW-3D	1/30/06	58.95	10.97	0.00	47.98	<50*	**110**	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
Screen	4/4/06	58.95	11.23	0.00	47.72	<50*	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
14' - 19'	7/7/06	58.95	13.65	0.00	45.30	<50*	**420**	**0.77**	<0.5	**1.4**	<0.5	<0.5	--	--	--	--	--
MW-4D	2/28/05	58.03	11.93	0.00	46.10	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	ND	--
Screen	5/2/05	58.03	11.13	0.00	46.90	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	ND	--
13' - 18'	8/9/05	58.03	13.22	0.00	44.81	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--
	8/18/05	58.03	13.66	0.00	44.37	--	--	--	--	--	--	--	--	--	--	--	--
	12/14/05	58.03	12.96	0.00	45.07	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--
	1/30/06	58.03	9.40	0.00	48.63	<50*	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
	7/7/06	58.03	13.07	0.00	44.96	<50*	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
MW-5D	2/28/05	57.20	11.05	0.00	46.15	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	ND	--
Screen	5/2/05	57.20	10.31	0.00	46.89	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	ND	--
15' - 20'	8/9/05	57.20	12.41	0.00	44.79	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--
	8/18/05	57.20	12.86	0.00	44.34	---	---	---	---	---	---	---	---	---	---	---	---
	12/14/05	57.20	12.04	0.00	45.16	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--
	1/30/06	57.20	9.03	0.00	48.17	<50*	<50	<0.5	<0.5	<0.5	<0.5	<0.5	--	--	--	--	--
	4/4/06	57.20	**No Access**			--	--	--	--	--	--	--	--	--	--	--	--
	7/7/06	57.20	12.35	0.00	44.85	--	--	--	--	--	--	--	--	--	--	--	--

Table 3
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard, Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Pb (µg/L)
Destroyed Wells - Potentially Screened Across A- & B-Zones																	
MW-1	8/12/96	98.70	13.92	0.00	84.78	<500	**1,700**	**72**	<3	**24**	**72**	<10	--	--	--	--	--
Screen	9/9/96	98.70	14.40	0.00	84.30	--	--	--	--	--	--	--	--	--	--	--	--
5' - 15'	10/8/96	98.70	14.40	0.00	84.30	--	--	--	--	--	--	--	--	--	--	--	--
	11/25/96	98.70	6.00	0.00	92.70	**110**	**1,700**	**31**	<5	**38**	**59**	<5	--	--	--	--	<2
	1/9/97	98.70	4.78	0.00	93.92	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/97	98.70	4.92	0.00	93.78	**330**	**930**	**1.8**	<10	**14**	20	<5	--	--	--	--	--
	3/19/97	98.70	10.05	0.00	88.65	--	--	--	--	--	--	--	--	--	--	--	--
	4/7/97	98.70	11.66	0.00	87.04	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/97	98.70	12.11	0.00	86.59	**480**	**790**	**1.3**	2.7	**5.9**	**16.7**	<5	--	--	--	--	--
	6/3/97	98.70	12.64	0.00	86.06	--	--	--	--	--	--	--	--	--	--	--	--
	7/7/97	98.70	13.57	0.00	85.13	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/97	98.70	13.98	0.00	84.72	--	--	--	--	--	--	--	--	--	--	--	--
	1/16/98	98.70	9.32	0.00	89.38	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/98	98.70	9.79	0.00	88.91	**190**	**1,000**	**2.8**	<2	**15**	<10	<5	--	--	--	--	--
	2/22/99	98.70	7.61	0.00	91.09	--	--	--	--	--	--	--	--	--	--	--	--
	3/5/99	98.70	--	0.00	--	**120**	**830**	<5	<5	**12**	<5	<5	--	--	--	--	--
	5/3/01	98.70	12.22	0.00	86.48	**300**	**4,700**	**14**	<30	**28**	**38**	<30	--	--	--	--	--
	9/4/01	98.70	13.95	0.00	84.75	--	--	--	--	--	--	--	--	--	--	--	--
	11/9/01	98.70	13.90	0.00	84.80	--	--	--	--	--	--	--	--	--	--	--	--
	2/25/03	98.70	9.54	0.00	89.16	**140**	**1,900**	**0.85**	<0.5	**5.5**	**0.74**	<1	ND	**3.9**	ND	ND	--
	5/16/03	98.70	7.82	0.00	90.88	**220**	**1,500**	<0.5	<0.5	**3.8**	**<.5**	<1	ND	**4.3**	ND	ND	--
	8/6/03	98.70	13.59	0.00	85.11	**280**	**2,000**	**1.4**	<0.5	**4.4**	**1.0**	<1	ND	**3.0**	ND	ND	--
	11/11/03	98.70	13.97	0.00	84.73	--	**2,000**	**4.3**	<0.5	**3.4**	**1.8**	<1	ND	ND	ND	ND	--
	2/17/04	98.70	5.96	0.00	92.74	**290**	**2,600**	<.5	<0.5	**5.0**	**0.53**	<1	ND	ND	ND	ND	--
	5/14/04	98.70	12.31	0.00	86.39	**140**	**2,200**	**1.2**	<0.5	**3.0**	**1.31**	<1	ND	ND	ND	ND	--
	8/17/04	98.70	13.98	0.00	84.72	--	**2,700**	**3.5**	<0.5	**3.1**	**0.87**	<1	ND	ND	ND	ND	--
	11/30/04	98.70	13.96	0.00	84.74	--	**2,900**	**10**	<0.5	**3.0**	**1.0**	<1	ND	ND	ND	ND	--
	2/28/05	58.63	8.75	0.00	49.88	**160**	**3,700**	<.5	<0.5	**4.4**	**0.60**	<1	ND	**2.3**	ND	ND	--
	5/2/05	58.63	10.17	0.00	48.46	**330**	**3,200**	**0.66**	<0.5	**2.9**	**0.62**	<1	ND	**4.1**	ND	ND	--
	8/9/05	58.63	13.15	0.00	45.48	--	--	--	--	--	--	--	--	--	--	--	--
	8/18/05	58.63	13.25	0.00	45.38	<1,000*	**1,800**	**1.9**	<0.5	**1.9**	<0.5	<0.5	**9.7**	**5.2**	<0.5	<0.5	--
	12/14/05	58.63	11.20	0.00	47.43	<500*	**1,000**	**0.69**	<0.5	**2.5**	<0.5	<0.5	**8.7**	**5.3**	<0.5	<0.5	--
	1/30/06	**Well Destroyed 1/19/06**															

Table 3
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard, Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Pb (µg/L)
Destroyed Wells - Potentially Screened Across A- & B-Zones																	
MW-2	8/12/96	99.45	17.17	0.00	82.28	<500	<50	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	--
Screen	9/9/96	99.45	14.58	0.00	84.87	--	--	--	--	--	--	--	--	--	--	--	--
5' - 15'	10/8/96	99.45	14.56	0.00	84.89	--	--	--	--	--	--	--	--	--	--	--	--
	11/25/96	99.45	4.70	--	--	<500	<50	<0.5	<0.5	<0.5	**0.77**	<5	ND	ND	ND	ND	0.028
	1/9/97	99.45	4.39	0.00	95.06	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/97	99.45	3.20	0.00	96.25	<500	<50	<0.5	<0.5	<0.5	<0.5	**69**	ND	ND	ND	ND	--
	3/19/97	99.45	4.36	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	4/7/97	99.45	10.02	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/97	99.45	4.79	0.00	94.66	<500	<50	<0.5	**0.55**	<0.5	**1.59**	<5	ND	ND	ND	ND	--
	6/3/97	99.45	13.80	0.00	85.65	--	--	--	--	--	--	--	--	--	--	--	--
	7/7/97	99.45	14.18	0.00	85.27	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/97	99.45	14.18	0.00	85.27	--	--	--	--	--	--	--	--	--	--	--	--
	1/16/98	99.45	13.63	0.00	85.82	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/98	99.45	11.57	0.00	87.88	<500	<50	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	--
	2/22/99	99.45	12.65	0.00	86.80	--	--	--	--	--	--	--	--	--	--	--	--
	3/5/99	99.45	8.51	0.00	90.94	<500	<50	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	--
	5/3/01	99.45	11.64	0.00	87.81	--	--	--	--	--	--	--	--	--	--	--	--
	9/4/01	99.45	14.08	0.00	85.37	<500	<50	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	--
	11/9/01	99.45	13.99	0.00	85.46	--	--	--	--	--	--	--	--	--	--	--	--
	2/25/03	99.45	3.35	0.00	96.10	--	--	--	--	--	--	--	--	--	--	--	--
	5/16/03	99.45	4.72	0.00	94.73	--	--	--	--	--	--	--	--	--	--	--	--
	8/6/03	99.45	13.70	0.00	85.75	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/03	99.45	14.04	0.00	85.41	--	--	--	--	--	--	--	--	--	--	--	--
	2/17/04	99.45	1.22	0.00	98.23	<500	<50	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	--
	5/14/04	99.45	12.74	0.00	86.71	--	--	--	--	--	--	--	--	--	--	--	--
	8/17/04	99.45	14.20	0.00	85.25	--	--	--	--	--	--	--	--	--	--	--	--
	11/30/04	99.45	13.03	0.00	86.42	--	--	--	--	--	--	--	--	--	--	--	--
	2/28/05	58.97	2.92	0.00	56.05	<500	<50	<0.5	<0.5	<0.5	<0.5	<5	ND	ND	ND	ND	--
	5/2/05	58.97	10.08	0.00	48.89	--	--	--	--	--	--	--	--	--	--	--	--
	8/9/05	58.97	14.03	0.00	44.94	--	--	--	--	--	--	--	--	--	--	--	--
	8/18/05	58.97	14.03	0.00	44.94	--	--	--	--	--	--	--	--	--	--	--	--
	12/14/05	58.97	8.04	0.00	50.93	--	--	--	--	--	--	--	--	--	--	--	--
	1/30/06	**Well Destroyed 1/19/06**															

Table 3
GROUNDWATER ELEVATIONS AND ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard, Fortuna, California
Blue Rock Project No. NC-40

Sample ID	Sample Date	TOC (feet)	DTW (feet)	SPH (feet)	GWE (feet)	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	Pb (µg/L)
Destroyed Wells - Potentially Screened Across A- & B-Zones																	
MW-3	8/12/96	98.89	16.95	0.00	81.94	<200	<50	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--	--
Screen	9/9/96	98.89	13.93	0.00	84.96	--	--	--	--	--	--	--	--	--	--	--	--
5' - 15'	10/8/96	98.89	14.79	0.00	84.10	--	--	--	--	--	--	--	--	--	--	--	--
	11/25/96	98.89	2.54	0.00	96.35	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--	--
	1/9/97	98.89	2.58	0.00	96.31	--	--	--	--	--	--	--	--	--	--	--	--
	2/4/97	98.89	2.04	0.00	96.85	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--	--
	3/19/97	98.89	2.97	0.00	95.92	--	--	--	--	--	--	--	--	--	--	--	--
	4/7/97	98.89	3.31	0.00	95.58	--	--	--	--	--	--	--	--	--	--	--	--
	5/1/97	98.89	2.32	0.00	96.57	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--	--
	6/3/97	98.89	2.55	0.00	96.34	--	--	--	--	--	--	--	--	--	--	--	--
	7/7/97	98.89	10.75	0.00	88.14	--	--	--	--	--	--	--	--	--	--	--	--
	8/13/97	98.89	14.14	0.00	84.75	--	--	--	--	--	--	--	--	--	--	--	--
	1/16/98	98.89	0.51	0.00	98.38	--	--	--	--	--	--	--	--	--	--	--	--
	5/5/98	98.89	3.32	0.00	95.57	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--	--
	2/22/99	98.89	1.00	0.00	97.89	--	--	--	--	--	--	--	--	--	--	--	--
	3/5/99	98.89	--	--	---	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--	--
	5/3/01	98.89	2.95	0.00	95.94	--	--	--	--	--	--	--	--	--	--	--	--
	9/4/01	98.89	14.15	0.00	84.74	<50	<50	<0.5	<0.5	<0.5	<0.5	<5	--	--	--	--	--
	11/9/01	98.89	11.39	0.00	87.50	--	--	--	--	--	--	--	--	--	--	--	--
	2/25/03	98.89	4.24	0.00	94.65	--	--	--	--	--	--	--	--	--	--	--	--
	5/16/03	98.89	3.18	0.00	95.71	--	--	--	--	--	--	--	--	--	--	--	--
	8/6/03	98.89	14.02	0.00	84.87	--	--	--	--	--	--	--	--	--	--	--	--
	11/11/03	98.89	2.87	0.00	96.02	--	--	--	--	--	--	--	--	--	--	--	--
	2/17/04	98.89	0.74	0.00	98.15	<50	<50	<0.5	<0.5	<0.5	<0.5	<1	ND	ND	ND	ND	ND
	5/14/04	98.89	9.12	0.00	89.77	--	--	--	--	--	--	--	--	--	--	--	--
	8/17/04	98.89	14.15	0.00	84.74	--	--	--	--	--	--	--	--	--	--	--	--
	11/30/04	98.89	3.26	0.00	95.63	--	--	--	--	--	--	--	--	--	--	--	--
	2/28/05	58.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	5/2/05	58.85	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
	8/9/05	58.85	12.64	0.00	46.21	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5	<0.5	<0.5	<0.5	--
	8/18/05	58.85	13.82	0.00	45.03	---	---	---	---	---	---	---	---	---	---	---	--
	12/14/05	58.85	3.56	0.00	55.29	---	---	---	---	---	---	---	---	---	---	---	--
	1/30/06	**Well Destroyed 1/19/06**															
					MCL	--	---	1.0	150	300	1,750	13					
					Taste and odor threshold	--	5	---	42	29	17	5					
					NCRWQCB Cleanup Goals	100	50	0.5	42	29	17	5					

Notes :

TOC: Top of well casing referenced to arbitrary site benchmark until 3/02, MSL thereafter
DTW: Depth to water as referenced to top of casing
SPH: Separate phase hydrocarbon on top of groundwater
GWE: Groundwater elevation as referenced to benchmark
µg/L = micrograms per liter
TPHg: Total petroleum hydrocarbons as gasoline by Method 5030/8015M or 5030/8260B
TPHd: Total petroleum hydrocarbons as diesel by Method 8015 (* = silica-gel clean-up)
BTEX: Benzene, toluene, ethylbenzene, xylenes by Method 8020 or 8260B
MTBE: Methyl tertiary butyl ether by Method 8020 or 8260B

TBA: Tertiary butyl alcohol by Method 8260B
DIPE: Di isopropyl ether by Method 8260B
ETBE: Ethyl tertiary butyl ether by Method 8260B
TAME: Tertiary amyl methyl ether by method 8260B
MCL : Maximum contaminant level
NCRWQCB : North Coast Region Water Quality Contr

Table 4
CUMULATIVE GRAB GROUNDWATER ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Blvd., Fortuna, California
Blue Rock Project No. NC-40

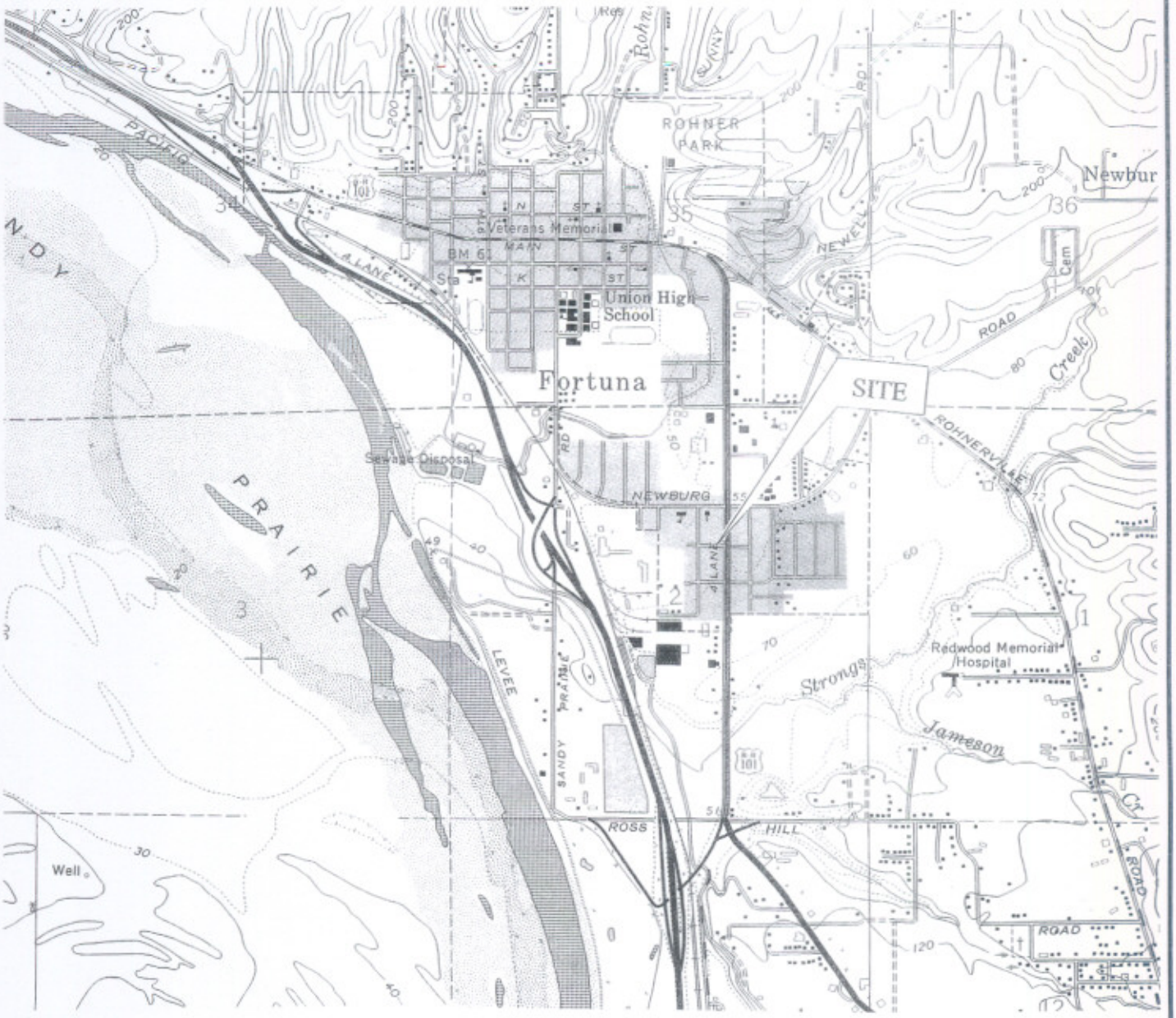
Sample No.	Boring Depth (feet bgs)	Water Depth (feet bgs)	Sampling Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
A-Zone Grab Samples (~4 to 9 feet)										
B-1	7	3	2/27/96	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
B-1/1-15	10	2.5	1/15/97	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
B-2/1-15	10	3	1/15/97	--	**3,200**	<2.5	<7	<20	<20	<25
B-3/1-15	10	2.5	1/15/97	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
B-4/1-15	10	3	1/15/97	--	**1,600**	<4	<5	<12	<12	<5
B-5/1-15	10	1.75	1/15/97	--	<50	<0.5	<0.5	<0.5	<0.5	<5
B-6/1-16	10	1.5	1/16/97	--	**2,500**	<5	<5	<30	<30	<50
B-7/1-16	10	2	1/16/97	--	**50**	<0.5	<0.5	<1.5	<1.5	<5
B-8/1-16	10	2.5	1/16/97	--	**470**	<0.5	<4	<8	<8	<5
HA-EJF1	5	4.5	6/21/01	--	<50	<0.5	<0.5	<0.5	<0.5	<3
B-Zone Grab Samples (~14 to 19 feet)										
B-9/1-16	20	16	1/16/97	--	<50	<0.5	<0.5	<0.5	<0.5	<5
B2-0299	19	17	2/17/99	--	<50	<0.5	<0.5	<0.5	<0.5	<5
B3-0299	19	14	2/17/99	--	<50	<0.5	<0.5	<0.5	<0.5	<5
B4-0299	19	14	2/17/99	--	<50	<0.5	<0.5	<0.5	<0.5	<5
B10-W16-20	20	14	2/2/05	--	<50	<0.5	<0.5	<0.5	<0.5	<1
Grab Samples from Potentially Mixed Zones										
B-3	14	2	2/27/96	--	**14,000**	**120**	<50	**370**	**80**	<130
B5-0299	19	10	2/17/99	--	<50	<0.5	<0.5	<0.5	<0.5	<5

Notes :
µg/L: micrograms per liter
"--": Not analyzed, available, or applicable
TPHd: Total petroelum hydrocarbons as diesel
TPHg: Total petroleum hydrocarbons as gasoline
BTEX: benzene, toluene, ethylbenzene, xylenes
MTBE: Methyl tertiary butyl ether
Note: Data transcribed from LACO data

Table 5
DOMESTIC WELL ANALYTICAL DATA
Former Totem Pole Market
580 South Fortuna Boulevard, Fortuna, California
Blue Rock Project No. NC-40

Well ID	Sample Date	TPHd (µg/L)	TPHg (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)	Other Analytes (1) (µg/L)
555 S. Spring St.	3/12/01	**58***	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5-<50
	5/2/01	<50	---	---	---	---	---	---	---
491 S. Spring St.	3/12/01	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5-<50
1702 1st Street	3/16/01	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5-<50

Notes :
TPHg: Total petroleum hydrocarbons as gasoline by Method 5030/8015M or 5030/8260B
TPHd: Total petroleum hydrocarbons as diesel by Method 8015
BTEX: Benzene, toluene, ethylbenzene, xylenes by Method 8020 or 8260B
MTBE: Methyl tertiary butyl ether by Method 8020 or 8260B
(1): Other Analytes tested by LACO, but not specified in 9/26/03 letter
*: LACO reports in 9/26/03 letter that the samlpe contains material in diesel range, but that the peak pattern is atypical of diesel fuel. The TPHd results represent the amount of material in the diesel range.
µg/L: micrograms per liter



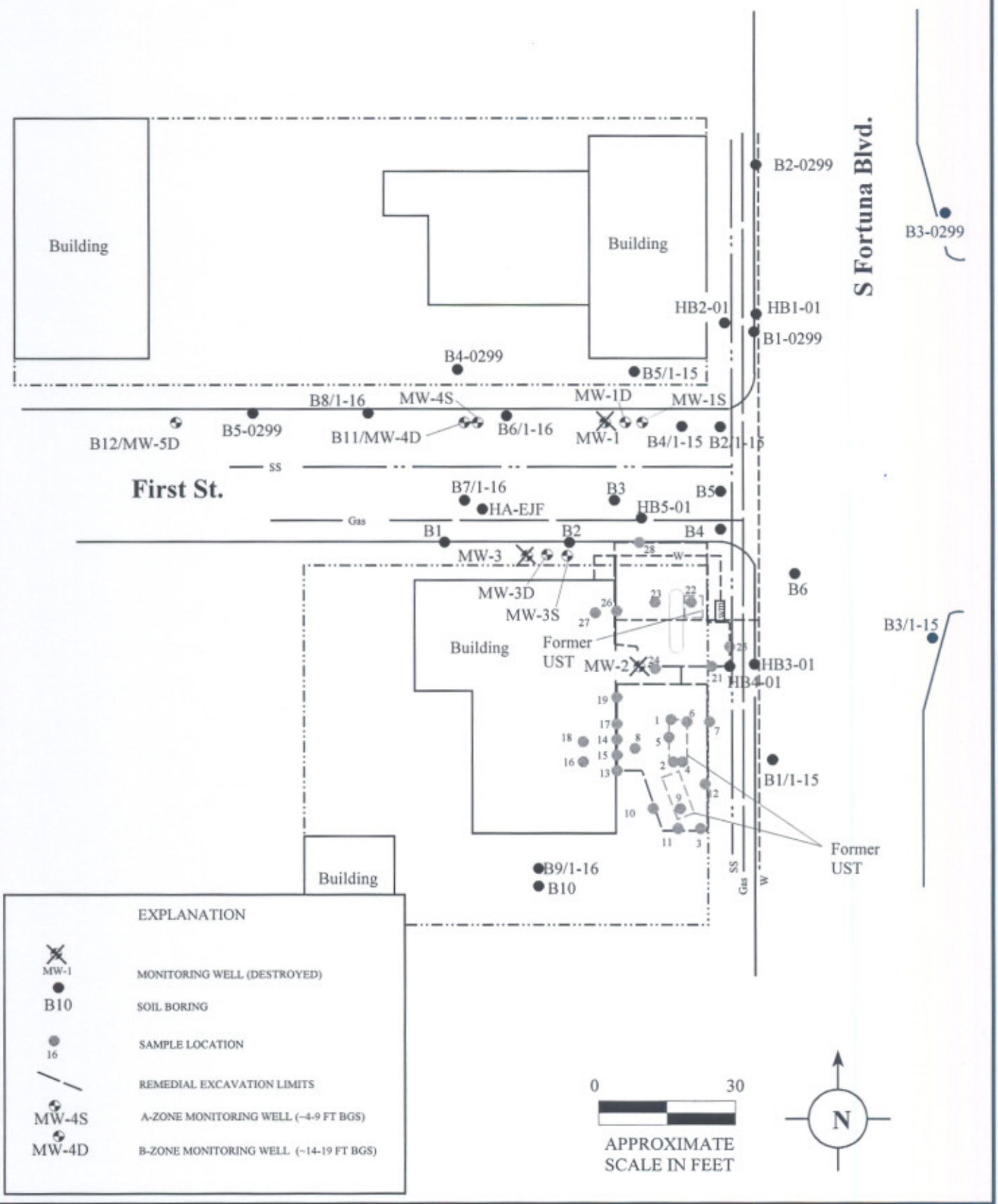
MAP SOURCE: USGS Fortuna Quadrangle

Site Location Map

Former Totem Pole Market
580 South Fortuna Boulevard
Fortuna, California

BLUE ROCK ENVIRONMENTAL, INC.

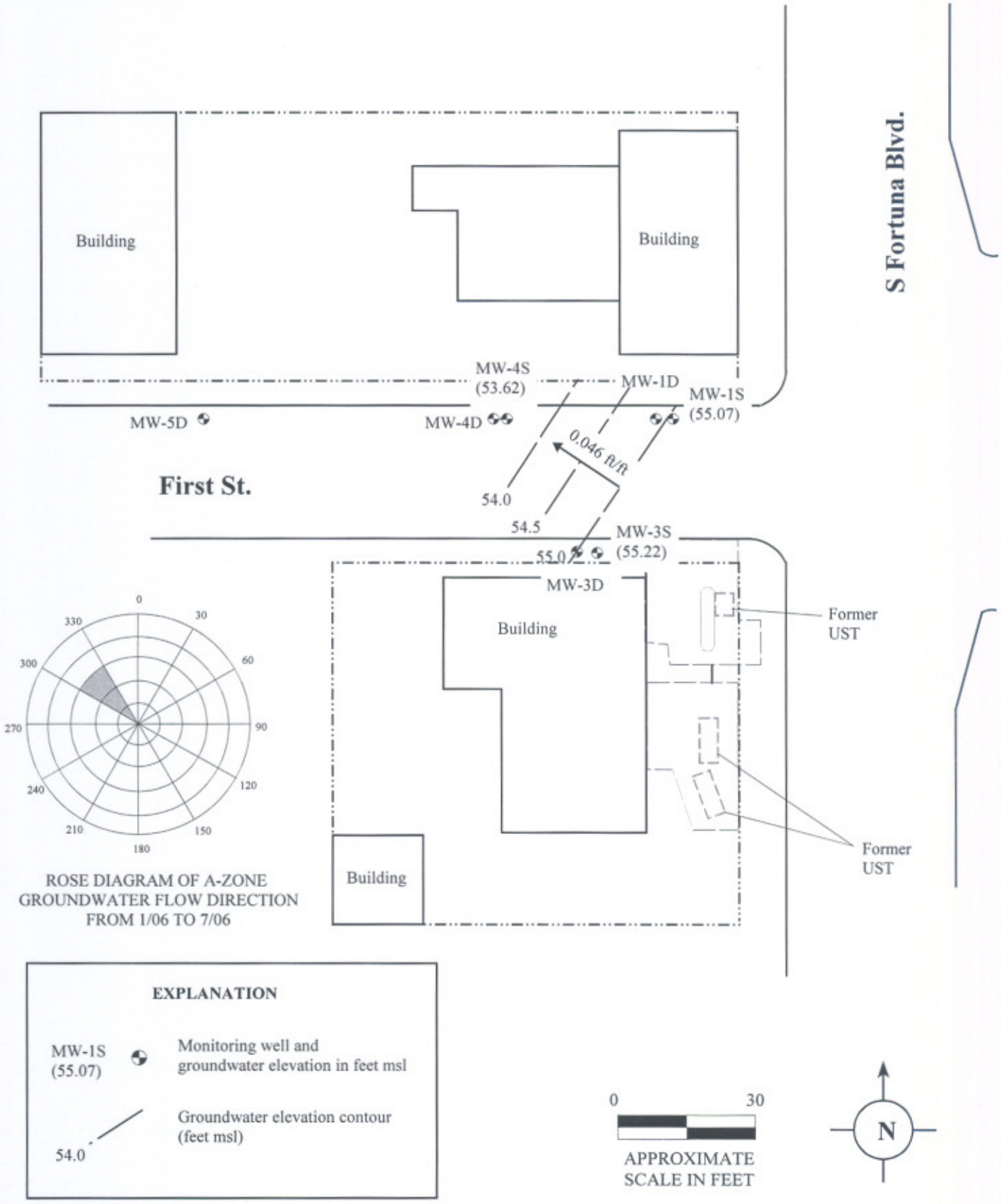
Project No.	Date	Figure
NC-40	8/06	1



Site Plan
Former Totem Pole Market
580 S. Fortuna Blvd
Fortuna, CA

BLUE ROCK ENVIRONMENTAL, INC.

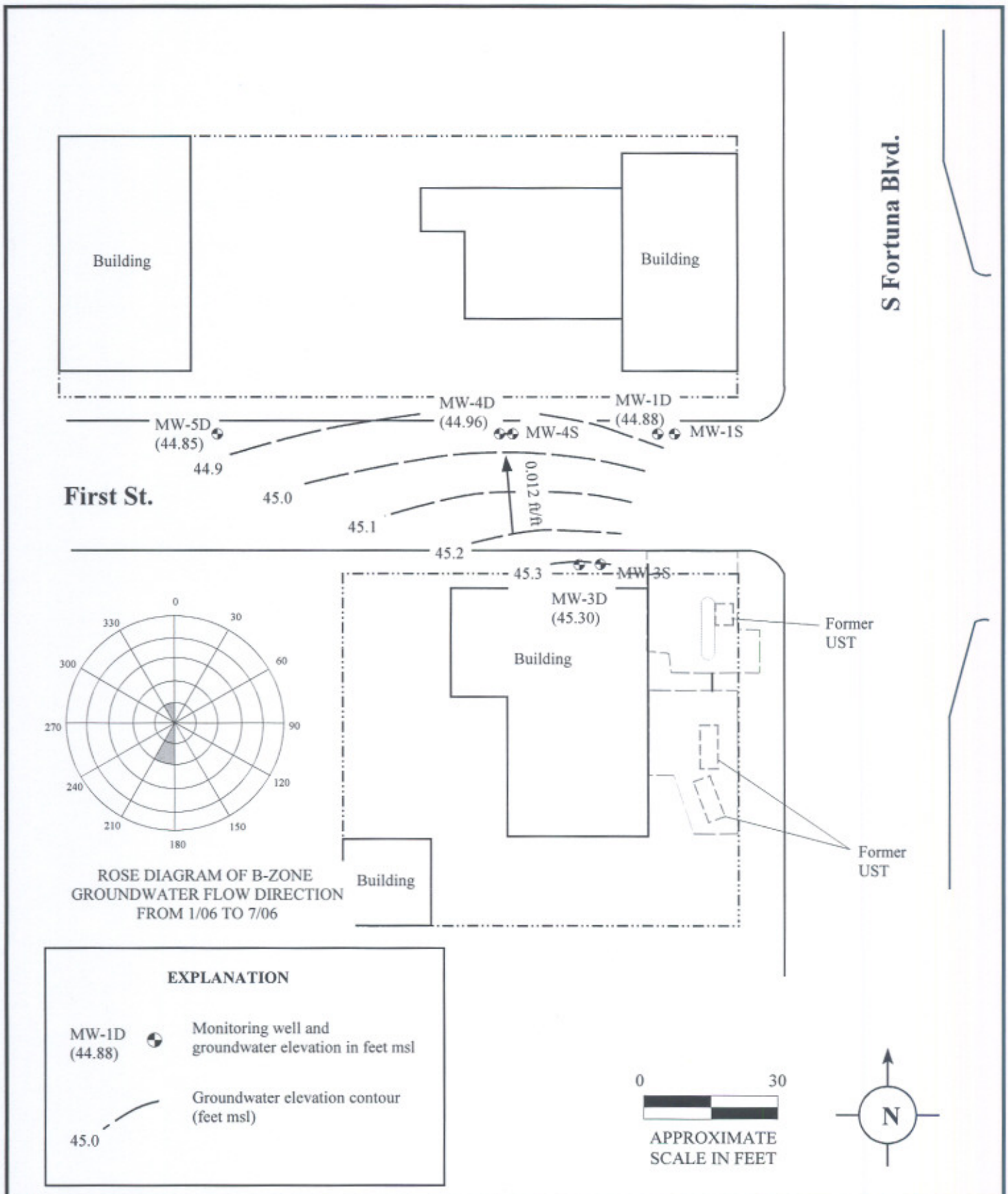
Project No.	Figure Date	Figure
NC-40	8/06	2



Groundwater Elevations and Gradient 7/7/06
(A-Zone 4-9 ft bgs)
Former Totem Pole Market
580 S. Fortuna Blvd
Fortuna, CA

BLUE ROCK ENVIRONMENTAL, INC.

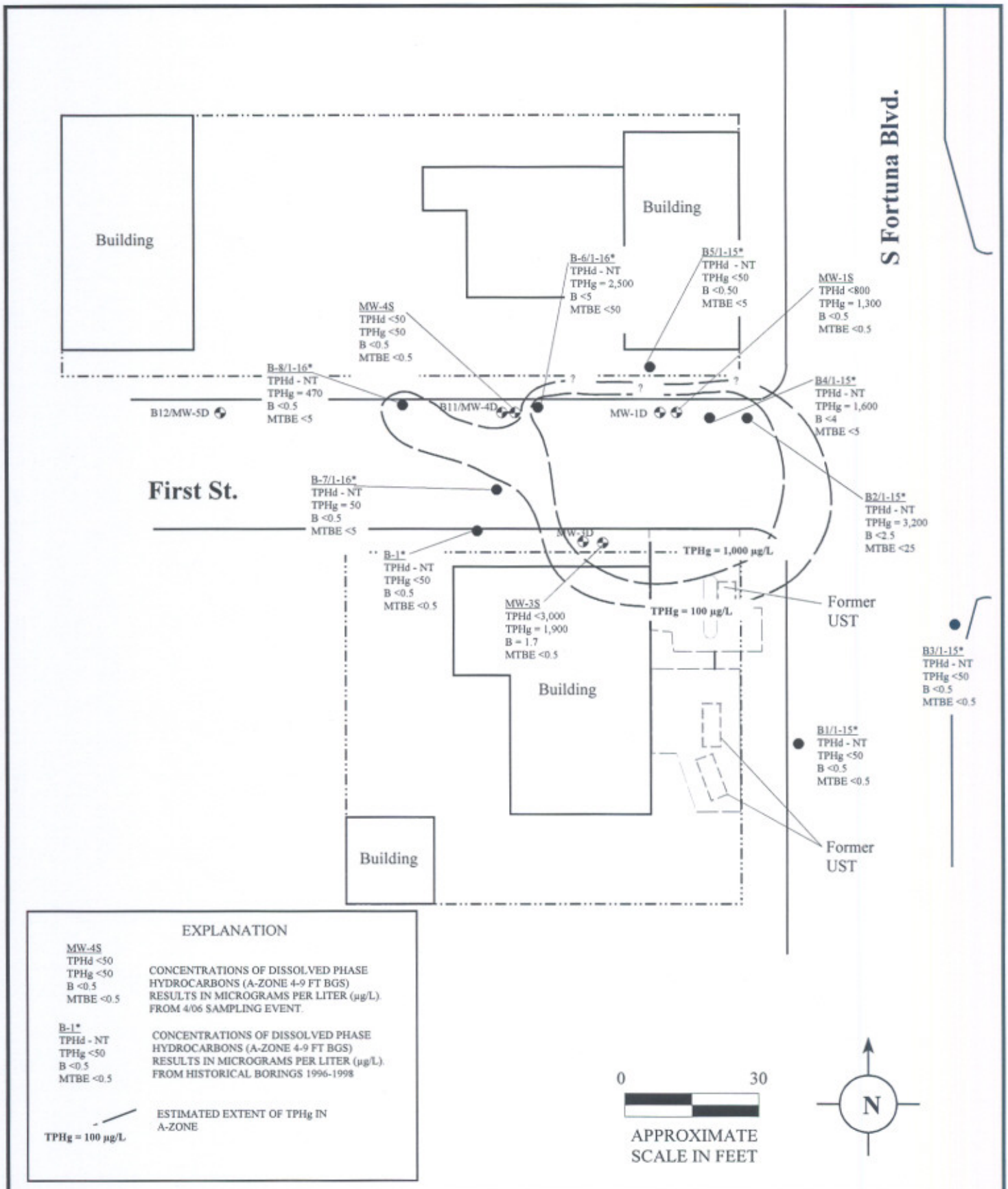
Project No.	Figure Date	Figure
NC-40	8/06	3a



Groundwater Elevations and Gradient 7/7/06
(B-Zone 14-19 ft bgs)
Former Totem Pole Market
580 S. Fortuna Blvd
Fortuna, CA

BLUE ROCK ENVIRONMENTAL, INC.

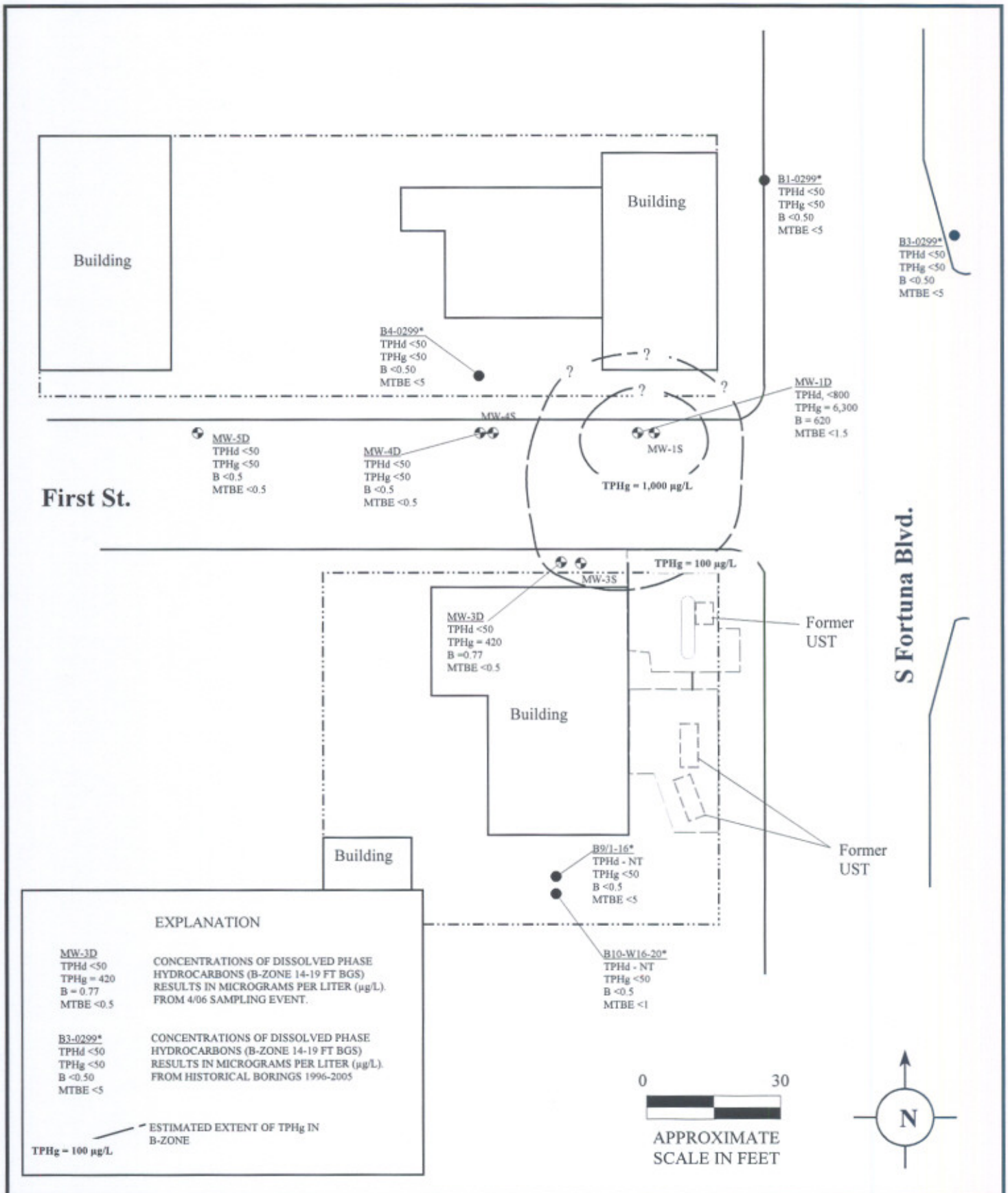
Project No.	Figure Date	Figure
NC-40	8/06	3b



Cumulative Groundwater Sample Data
(A-Zone 4-9 ft bgs)
Former Totem Pole Market
580 S. Fortuna Blvd
Fortuna, CA

BLUE ROCK ENVIRONMENTAL, INC.

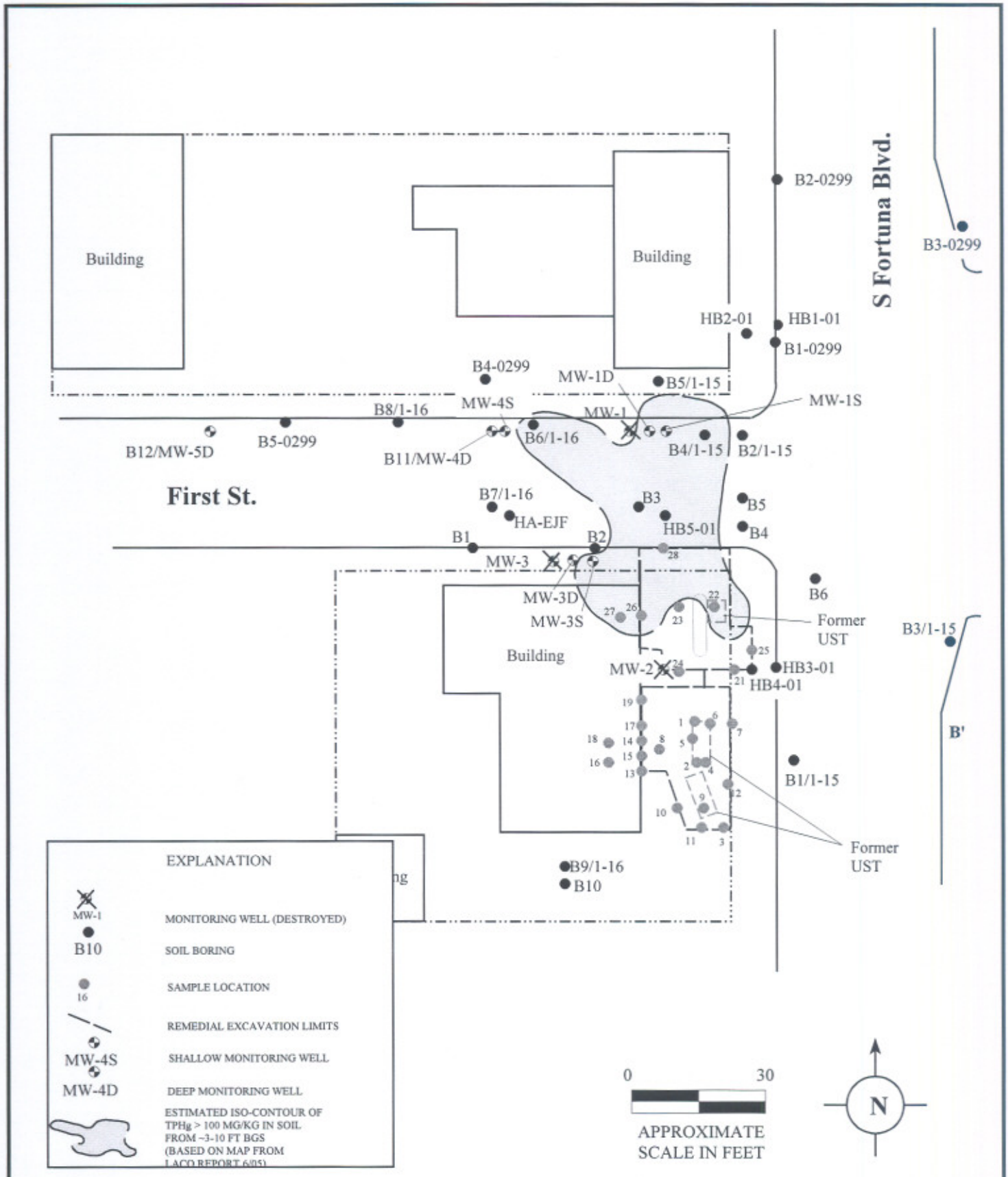
Project No.	Figure Date	Figure
NC-40	8/06	4a



Cumulative Groundwater Sample Data
(B-Zone 14-19 ft bgs)
Former Totem Pole Market
580 S. Fortuna Blvd
Fortuna, CA

BLUE ROCK ENVIRONMENTAL, INC.

Project No.	Figure Date	Figure
NC-40	8/06	4b



TPHg in Soil (~3-10 ft bgs)
Former Totem Pole Market
580 S. Fortuna Blvd
Fortuna, CA

BLUE ROCK ENVIRONMENTAL, INC.

Project No.	Figure Date	Figure
NC-40	8/06	5

GAGING DATA/PURGE CALCULATIONS

Job No.: NC-40 **Location:** 580 S. Fortuna Blvd. **Date:** 7/7/06 **Tech(s):** JL

WELL NO.	DIA. (in.)	DTB (ft.)	DTW (ft.)	ST (ft.)	CV (gal.)	PV (gal.)	SPH (ft.)	NOTES
MW-1D	2	19.21	13.89	5.32	0.85	2.55	0	
MW-1S		9.10	3.91	5.19	0.83	2.49		
MW-3D		19.20	13.65	5.55	0.88	2.64		
MW-3S		9.11	3.82	5.29	0.84	2.52		
MW-4D		18.25	13.07	5.18	0.82	2.46		
MW-4S		8.55	4.53	4.02	0.64	1.92		
MW-5D		19.70	12.35	7.35	1.17	3.51		DTW only

Explanation:
DIA. = Well Diameter
DTB = Depth to Bottom
DTW = Depth to Water
ST = Saturated Thickness (DTB-DTW)
CV = Casing Volume (ST x cf)
PV = Purge Volume (standard 3 x CV, well development 10 x CV)
SPH = Thickness of Separate Phase Hydrocarbons

Conversion Factors (cf):
2 in. dia. well cf = 0.16 gal./ft.
4 in. dia. well cf = 0.65 gal./ft.
6 in. dia. well cf = 1.44 gal./ft.

BLUE ROCK ENVIRONMENTAL, INC.

PURGING DATA

SHEET 1 OF 2

Job No.: NC-40 **Location:** 580 S. Fortuna Blvd **Date:** 7/7/06 **Tech:** JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-1D			---	---	---
Calc. purge	9:20	0.25	347	64.1	6.02
volume	9:25	1.50	340	62.6	5.96
2.55	9:30	2.55	338	61.8	6.00

COMMENTS: color, turbidity, recharge, sheen

clear / mod / mod / no sheen / slight odor

Sample for: TPHg TPHd 8260 BTEX MTBE Metals

Purging Method: PVC bailer / Pump

Sampling Method: Dedicated / Disposable bailer

Sample at: 9:35

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-1S			---	---	---
Calc. purge	9:45	0.25	405	67.5	6.19
volume	9:50	1.50	419	66.5	6.28
2.49	9:55	2.50	407	65.7	6.29

COMMENTS: color, turbidity, recharge, sheen

clear / mod / mod / no sheen / odor

Sample for: TPHg TPHd 8260 BTEX MTBE Metals

Purging Method: PVC bailer / Pump

Sampling Method: Dedicated / Disposable bailer

Sample at: 10:00

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-3D			---	---	---
Calc. purge	10:05	0.25	210	63.7	6.00
volume	10:10	1.50	235	62.0	6.11
2.64	10:15	2.65	230	61.6	6.21

COMMENTS: color, turbidity, recharge, sheen

clear / heavy / mod / no sheen / no odor

Sample for: TPHg TPHd 8260 BTEX MTBE Metals

Purging Method: PVC bailer / Pump

Sampling Method: Dedicated / Disposable bailer

Sample at: 10:20

PURGING DATA

Job No.: NC-40 **Location:** 580 S. Fortuna Blvd **Date:** 7/7/06 **Tech:** JL

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-3S			---	---	---
Calc. purge	10:25	0.25	270	65.2	6.09
volume	10:30	1.50	250	65.9	6.04
2.52	10:35	2.50	347	64.4	6.22

COMMENTS: color, turbidity, recharge, sheen

clear / mod / mod / no sheen / no odor

Sample for: TPHg TPHd 8260 BTEX MTBE Metals

Purging Method: PVC bailer / Pump

Sampling Method: Dedicated / Disposable bailer

Sample at: 10:40

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-4D			---	---	---
Calc. purge	10:45	0.25	173	63.4	6.29
volume	10:50	1.50	169	61.6	6.41
2.46	10:55	2.45	well	dry @	2 gal.

COMMENTS: color, turbidity, recharge, sheen

clear / mod / poor / no sheen / no odor

Sample for: TPHg TPHd 8260 BTEX MTBE Metals

Purging Method: PVC bailer / Pump

Sampling Method: Dedicated / Disposable bailer

Sample at: 11:00

WELL No.	TIME	VOLUME (gal.)	COND. (mS/cm)	TEMP. (deg. F.)	pH
MW-4S			---	---	---
Calc. purge	11:05	0.25	155	66.9	5.68
volume	11:10	1.00	159	65.6	5.80
1.92	11:15	1.90	159	65.5	6.03

COMMENTS: color, turbidity, recharge, sheen

clear / mod / poor / no sheen / no odor

Sample for: TPHg TPHd 8260 BTEX MTBE Metals

Purging Method: PVC bailer / Pump

Sampling Method: Dedicated / Disposable bailer

Sample at: 11:20

KIFF Analytical LLC

Report Number : 50993
Date : 7/12/2006

Andrew LoCicero
Blue Rock Environmental, Inc.
535 3rd Street, Suite 100
Eureka, CA 95501

Subject : 6 Water Samples
Project Name : Former Totem Pole Market
Project Number : NC-40

Dear Mr. LoCicero,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

KIFF Analytical LLC

Report Number : 50993
Date : 7/12/2006

Subject : 6 Water Samples
Project Name : Former Totem Pole Market
Project Number : NC-40

Case Narrative

The Method Reporting Limit for TPH as Diesel is increased due to interference from Gasoline-Range Hydrocarbons for samples MW-1D, MW-1S and MW-3S.

Approved By: Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 50993

Date : 7/12/2006

Project Name : **Former Totem Pole Market**

Project Number : **NC-40**

Sample : **MW-1D** Matrix : Water Lab Number : 50993-01

Sample Date :7/7/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**620**	1.5	ug/L	EPA 8260B	7/11/2006
Toluene	**4.2**	1.5	ug/L	EPA 8260B	7/11/2006
Ethylbenzene	**190**	1.5	ug/L	EPA 8260B	7/11/2006
Total Xylenes	**110**	1.5	ug/L	EPA 8260B	7/11/2006
Methyl-t-butyl ether (MTBE)	**< 1.5**	1.5	ug/L	EPA 8260B	7/11/2006
TPH as Gasoline	**6300**	150	ug/L	EPA 8260B	7/11/2006
Toluene - d8 (Surr)	92.4		% Recovery	EPA 8260B	7/11/2006
4-Bromofluorobenzene (Surr)	105		% Recovery	EPA 8260B	7/11/2006
TPH as Diesel (Silica Gel)	**< 800**	800	ug/L	M EPA 8015	7/11/2006
Octacosane (Diesel Surrogate)	105		% Recovery	M EPA 8015	7/11/2006

Sample : **MW-1S** Matrix : Water Lab Number : 50993-02

Sample Date :7/7/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Ethylbenzene	**5.4**	0.50	ug/L	EPA 8260B	7/11/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
TPH as Gasoline	**1300**	50	ug/L	EPA 8260B	7/11/2006
Toluene - d8 (Surr)	95.9		% Recovery	EPA 8260B	7/11/2006
4-Bromofluorobenzene (Surr)	102		% Recovery	EPA 8260B	7/11/2006
TPH as Diesel (Silica Gel)	**< 800**	800	ug/L	M EPA 8015	7/12/2006
Octacosane (Diesel Surrogate)	109		% Recovery	M EPA 8015	7/12/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 50993
Date : 7/12/2006

Project Name : **Former Totem Pole Market**
Project Number : **NC-40**

Sample : **MW-3D** Matrix : Water Lab Number : 50993-03
Sample Date :7/7/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**0.77**	0.50	ug/L	EPA 8260B	7/11/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Ethylbenzene	**1.4**	0.50	ug/L	EPA 8260B	7/11/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
TPH as Gasoline	**420**	50	ug/L	EPA 8260B	7/11/2006
Toluene - d8 (Surr)	92.6		% Recovery	EPA 8260B	7/11/2006
4-Bromofluorobenzene (Surr)	104		% Recovery	EPA 8260B	7/11/2006
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	7/12/2006
Octacosane (Diesel Surrogate)	109		% Recovery	M EPA 8015	7/12/2006

Sample : **MW-3S** Matrix : Water Lab Number : 50993-04
Sample Date :7/7/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**1.7**	0.50	ug/L	EPA 8260B	7/11/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Ethylbenzene	**0.67**	0.50	ug/L	EPA 8260B	7/11/2006
Total Xylenes	**1.8**	0.50	ug/L	EPA 8260B	7/11/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
TPH as Gasoline	**1900**	50	ug/L	EPA 8260B	7/11/2006
Toluene - d8 (Surr)	99.5		% Recovery	EPA 8260B	7/11/2006
4-Bromofluorobenzene (Surr)	99.6		% Recovery	EPA 8260B	7/11/2006
TPH as Diesel (Silica Gel)	**< 3000**	3000	ug/L	M EPA 8015	7/12/2006
Octacosane (Diesel Surrogate)	112		% Recovery	M EPA 8015	7/12/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

Report Number : 50993
Date : 7/12/2006

Project Name : **Former Totem Pole Market**
Project Number : **NC-40**

Sample : **MW-4D** Matrix : Water Lab Number : 50993-05
Sample Date :7/7/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	7/11/2006
Toluene - d8 (Surr)	97.5		% Recovery	EPA 8260B	7/11/2006
4-Bromofluorobenzene (Surr)	99.2		% Recovery	EPA 8260B	7/11/2006
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	7/12/2006
Octacosane (Diesel Surrogate)	91.2		% Recovery	M EPA 8015	7/12/2006

Sample : **MW-4S** Matrix : Water Lab Number : 50993-06
Sample Date :7/7/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	7/11/2006
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	7/11/2006
Toluene - d8 (Surr)	97.2		% Recovery	EPA 8260B	7/11/2006
4-Bromofluorobenzene (Surr)	98.7		% Recovery	EPA 8260B	7/11/2006
TPH as Diesel (Silica Gel)	**< 50**	50	ug/L	M EPA 8015	7/12/2006
Octacosane (Diesel Surrogate)	91.4		% Recovery	M EPA 8015	7/12/2006

Approved By: Joel Kiff

2795 2nd St., Suite 300 Davis, CA 95616 530-297-4800

Report Number : 50993

Date : 7/12/2006

QC Report : Method Blank Data

Project Name : **Former Totem Pole Market**

Project Number : **NC-40**

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	7/11/2006
Octacosane (Diesel Surrogate)	100		%	M EPA 8015	7/11/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/11/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/11/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/11/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/11/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/11/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/11/2006
Toluene - d8 (Surr)	94.6		%	EPA 8260B	7/11/2006
4-Bromofluorobenzene (Surr)	101		%	EPA 8260B	7/11/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	7/11/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	7/11/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	7/11/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	7/11/2006
Methyl-t-butyl ether (MTBE)	< 0.50	0.50	ug/L	EPA 8260B	7/11/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	7/11/2006
Toluene - d8 (Surr)	99.1		%	EPA 8260B	7/11/2006
4-Bromofluorobenzene (Surr)	97.1		%	EPA 8260B	7/11/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 50993

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 7/12/2006

Project Name : **Former Totem Pole Market**

Project Number : **NC-40**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
TPH as Diesel	Blank	<50	1000	1000	926	938	ug/L	M EPA 8015	7/11/06	92.6	93.8	1.33	70-130	25
Benzene	50240-07	<0.50	40.0	40.0	41.8	40.0	ug/L	EPA 8260B	7/11/06	104	100	4.35	70-130	25
Toluene	50240-07	<0.50	40.0	40.0	39.2	37.1	ug/L	EPA 8260B	7/11/06	98.1	92.7	5.64	70-130	25
Tert-Butanol	50240-07	<5.0	200	200	202	194	ug/L	EPA 8260B	7/11/06	101	97.2	4.06	70-130	25
Methyl-t-Butyl Ether	50240-07	<0.50	40.0	40.0	37.6	39.9	ug/L	EPA 8260B	7/11/06	94.0	99.8	5.95	70-130	25
Benzene	50240-06	5.4	40.0	40.0	49.1	49.1	ug/L	EPA 8260B	7/11/06	109	109	0.0913	70-130	25
Toluene	50240-06	1.9	40.0	40.0	44.5	44.2	ug/L	EPA 8260B	7/11/06	106	106	0.575	70-130	25
Tert-Butanol	50240-06	<5.0	200	200	204	206	ug/L	EPA 8260B	7/11/06	102	103	0.620	70-130	25
Methyl-t-Butyl Ether	50240-06	3.0	40.0	40.0	44.7	46.0	ug/L	EPA 8260B	7/11/06	104	108	2.94	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 50993

QC Report : Laboratory Control Sample (LCS)

Date : 7/12/2006

Project Name : **Former Totem Pole Market**

Project Number : **NC-40**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	40.0	ug/L	EPA 8260B	7/11/06	102	70-130
Toluene	40.0	ug/L	EPA 8260B	7/11/06	96.2	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/11/06	103	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/11/06	101	70-130
Benzene	40.0	ug/L	EPA 8260B	7/11/06	102	70-130
Toluene	40.0	ug/L	EPA 8260B	7/11/06	103	70-130
Tert-Butanol	200	ug/L	EPA 8260B	7/11/06	99.2	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	7/11/06	99.4	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

KIFF Analytical LLC

2795 2nd Street, Suite 300
Davis, CA 95616
Lab: 530.297.4800
Fax: 530.297.4802

SRG # / Lab No. 50993

Page 1 of 1

Chain-of-Custody Record and Analysis Request

Project Contact (Hardcopy or PDF To): Andrew LoCicero

California EDF Report? ☒ Yes ☐ No

Company / Address: Blue Rock Env, Inc, 535 3rd St, Ste. 100 Eureka, CA

Sampling Company Log Code:

Phone #: (707) 441-1934 Fax #: (707) 441-1949

Global ID: T0602300028

Project #: NC-40 P.O. #:

EDF Deliverable To (Email Address): andrew@bluerockenv.com

Project Name: Former Totem Pole Market

Sampler Signature: James Lindermann

Project Address: 580 S. Fortuna Blvd, Fortuna, CA

TAT: ☐ 12 hr ☐ 24 hr ☐ 48 hr ☐ 72 hr ☒ 1 wk

Sample Designation	Sampling Date	Sampling Time	Container: 40 ml VOA	Sleeve	Poly	Glass	Tedlar	Preservative: HCl	HNO_3	None	Matrix: Water	Soil	Air	MTBE (EPA 8260B) per EPA 8021 level @ 5.0 ppb	MTBE (EPA 8260B) @ 0.5 ppb	BTEX (EPA 8260B)	TPH Gas (EPA 8260B)	5 Oxygenates (EPA 8260B)	7 Oxygenates (EPA 8260B)	Lead Scav. (1,2 DCA & 1,2 EDB-EPA 8260B)	Volatile Halocarbons (EPA 8260B)	Volatile Organics Full List (EPA 8260B)	Volatile Organics (EPA 524.2 Drinking Water)	TPH as Diesel (EPA 8015M) Silica gel	TPH as Motor Oil (EPA 8015M)	Total Lead (EPA 6010)	W.E.T. Lead (STLC)	TAT 1 wk	For Lab Use Only
MW-1D	7/7/06	935	6					X			X				X	X	X							X				X	01
MW-1S	↓	1000	↓					↓			↓				↓	↓	↓							↓				↓	02
MW-3D	↓	1020	↓					↓			↓				↓	↓	↓							↓				↓	03
MW-3S	↓	1040	↓					↓			↓				↓	↓	↓							↓				↓	04
MW-4D	↓	1100	↓					↓			↓				↓	↓	↓							↓				↓	05
MW-4S	↓	1120	↓					↓			↓				↓	↓	↓							↓				↓	06

Relinquished by:	Date	Time	Received by:
James Lindermann	7/7/06		Fed Ex
	071006	1037	Roz McLee Kiff Analytical

Remarks:

Bill to:

For Lab Use Only: Sample Receipt

Temp °C	Initials	Date	Time	Therm. ID #	Coolant Present
12.0	RLM	071006	1005	IR-1	(Yes) / No

Distribution: White - Lab; Pink - Originator
Rev: 051805