

## Detterman, Mark, Env. Health

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**From:** Hey, Eva [Eva.Hey@stantec.com]  
**Sent:** Friday, January 30, 2015 1:21 PM  
**To:** Detterman, Mark, Env. Health  
**Cc:** Maxwell, Chris; robert.webster@ddbbo.com; Bassak, Andrew; Roe, Dilan, Env. Health; Hey, Eva  
**Subject:** RO167 - Transmittal of Draft Results  
**Attachments:** 2015 01 30\_Ltr\_to\_MDetterman\_ACEH.pdf

Mark,

Attached is the letter submitting the draft results for the most recent soil vapor sampling and downgradient grab groundwater sampling.

We look forward to discussing the next steps after you have had a chance to review.

I will also upload this to the ACEH htp site.

Regards,

Eva

### Eva Hey

Geologic Consultant  
Stantec  
1340 Treat Boulevard, Suite 300 Walnut Creek CA 94597-7966  
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Cell: (925) 395-7441  
Eva.Hey@stantec.com



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**From:** Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]  
**Sent:** Tuesday, December 02, 2014 3:31 PM  
**To:** Hey, Eva  
**Cc:** Maxwell, Chris; robert.webster@ddbbo.com; Bassak, Andrew  
**Subject:** RE: ACEH Correspondence for RO167

Eva,  
Thanks for the update, and the extension request. It does appear appropriate with the bit of rain we're finally getting. Please use this email to document ACEH concurrence with the requested extension and date.

*Mark Detterman*  
*Senior Hazardous Materials Specialist, PG, CEG*  
*Alameda County Environmental Health*  
*1131 Harbor Bay Parkway*  
*Alameda, CA 94502*  
*Direct: 510.567.6876*  
*Fax: 510.337.9335*  
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*PDF copies of case files can be downloaded at:*



**Stantec**

**Stantec Consulting Services Inc.**

1340 Treat Boulevard, Suite 300, Walnut Creek CA 94597-7966

January 30, 2015  
File: 185702848

Mr. Mark E. Detterman, P.G., CEG  
Hazardous Materials Specialist  
Alameda County Health Care Services Agency  
Department of Environmental Health  
1131 Harbor Bay Parkway  
Alameda, California 94502

**Reference: Transmittal of DRAFT Tables and Figures Presenting Recent Investigation Data  
RO#167, 575 Paseo Grande, San Lorenzo, California**

Dear Mr. Detterman,

Stantec Consulting Services Inc. (Stantec), on behalf of the David D. Bohannon Organization (Bohannon), is submitting to the Alameda County Health Care Services Agency (ACHCSA) draft tables and figures presenting data collected during recent investigations conducted at 575 Paseo Grande project in San Lorenzo, California (Site). The attached information is being submitted in draft form consistent with discussions during an August 2014 meeting between the ACHCSA, Bohannon, and Stantec. Specifically, during the meeting it was agreed that the attached draft information would be submitted and that subsequent discussions would be held to review the data and determine the appropriate next steps. Bohannon will be contacting you in the near future to request a date and time that is convenient for you to discuss the attached information.

The field work was conducted in accordance with the *August 29, 2014 Meeting Summary and Work Plan for Supplemental Investigation Activities (Work Plan)* which was submitted on September 23, 2014. The *Work Plan* was approved by the ACHCSA in an October 29, 2014 letter to Bohannon.

Because of rain events delaying the collection of soil vapor samples, Bohannon requested a six-week extension of the December 19, 2014 report submittal date included in the October 29, 2014 approval letter. The extension was approved which revised the submittal date for the attached draft tables and figures to January 30, 2015.

Grab groundwater sampling was conducted on October 15, 2014. Six soil vapor points (SV-15 to SV-19 and SV-18(D)) were installed on November 13, 2014 and soil vapor sample collection was conducted on January 6, 2015. Soil vapor samples were collected from four of the six vapor points; vapor points SV-15 and SV-18(D) could not be sampled due to the presence of water in the vapor point.

The attached draft tables present the results of the recent soil, grab groundwater, and soil vapor analyses as well as the historical groundwater analytical results. The attached draft figures present the most recent results for soil vapor and grab groundwater sampling as proposed in the above-referenced *Work Plan*. Key points of the investigation results are summarized below.



**Reference: Transmittal of DRAFT Tables and Figures Presenting Recent Investigation Data  
RO#167, 575 Paseo Grande, San Lorenzo, California**

- Petroleum hydrocarbons were not detected the grab groundwater samples collected at the three (3) locations down-gradient of the Site along Via del Sol (HP-14 to HP-16) (Table 6, Figure 2). These data, in conjunction with historic and recent results from wells MW-6 and MW-7, confirm that petroleum hydrocarbons in groundwater do not extend down-gradient from the Site to Via del Sol. No further investigation of down-gradient groundwater conditions is recommended.
- Total petroleum hydrocarbons measured as gasoline (TPHg) and benzene, toluene, ethylbenzene, and xylenes (BTEX) were not detected in the soil samples collected at a depth of 4.5 feet in each of the six soil vapor points installed in November 2014 (Table 5). These data confirm that shallow soil beneath Paseo Larga Vista is not affected by petroleum hydrocarbons at these sampling locations.
- No volatile organic compounds (VOCs) were detected in soil vapor samples from the two of the shallow soil vapor sample points (SV-17 and SV-19) installed beneath Paseo Larga Vista. Very low concentrations of a select number of VOCs were detected the remaining two soil vapor points (SV-16 and SV-18S). BTEX was not detected in either of these two samples.

As discussed during our August 2014 meeting, off-Site soil and groundwater impacts beneath Paseo Larga Vista are limited in extent and appear to be isolated beneath a confining silt-clay layer that extends from approximately 5 to 12 feet bgs across the majority of the on and off-Site investigation areas. These most recent shallow soil vapor data collected beneath Paseo Larga Vista suggest that the silt-clay layer likely provides a natural barrier that limits the potential for upward migration of hydrocarbons in vapor from the underlying soil and/or groundwater. There does not appear to be a complete pathway for migration of soil vapor from off-Site hydrocarbon impacted soil and/or groundwater to potential current or likely future receptors.

We look forward to discussing these results with you and discussing the appropriate next steps.

Regards,

**STANTEC CONSULTING SERVICES INC.**

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Attachments:

- Figure 1 – Soil Vapor and Grab Groundwater Sample Locations
- Figure 2 – TPH-G/Benzene Results for Grab Groundwater Samples
- Figure 3 – Soil Vapor Sample Results



January 30, 2015  
Page 3 of 3

**Reference: Transmittal of DRAFT Tables and Figures Presenting Recent Investigation Data  
RO#167, 575 Paseo Grande, San Lorenzo, California**

Table 1 – On-Site Soil Sample TPH-G and BTEX Analytical Results

Table 2 – On-Site Soil Sample PAH Analytical Results

Table 3 – Soil Vapor Analytical Results

Table 4 – Off-Site Soil Sample TPH-G and BTEX Analytical Results

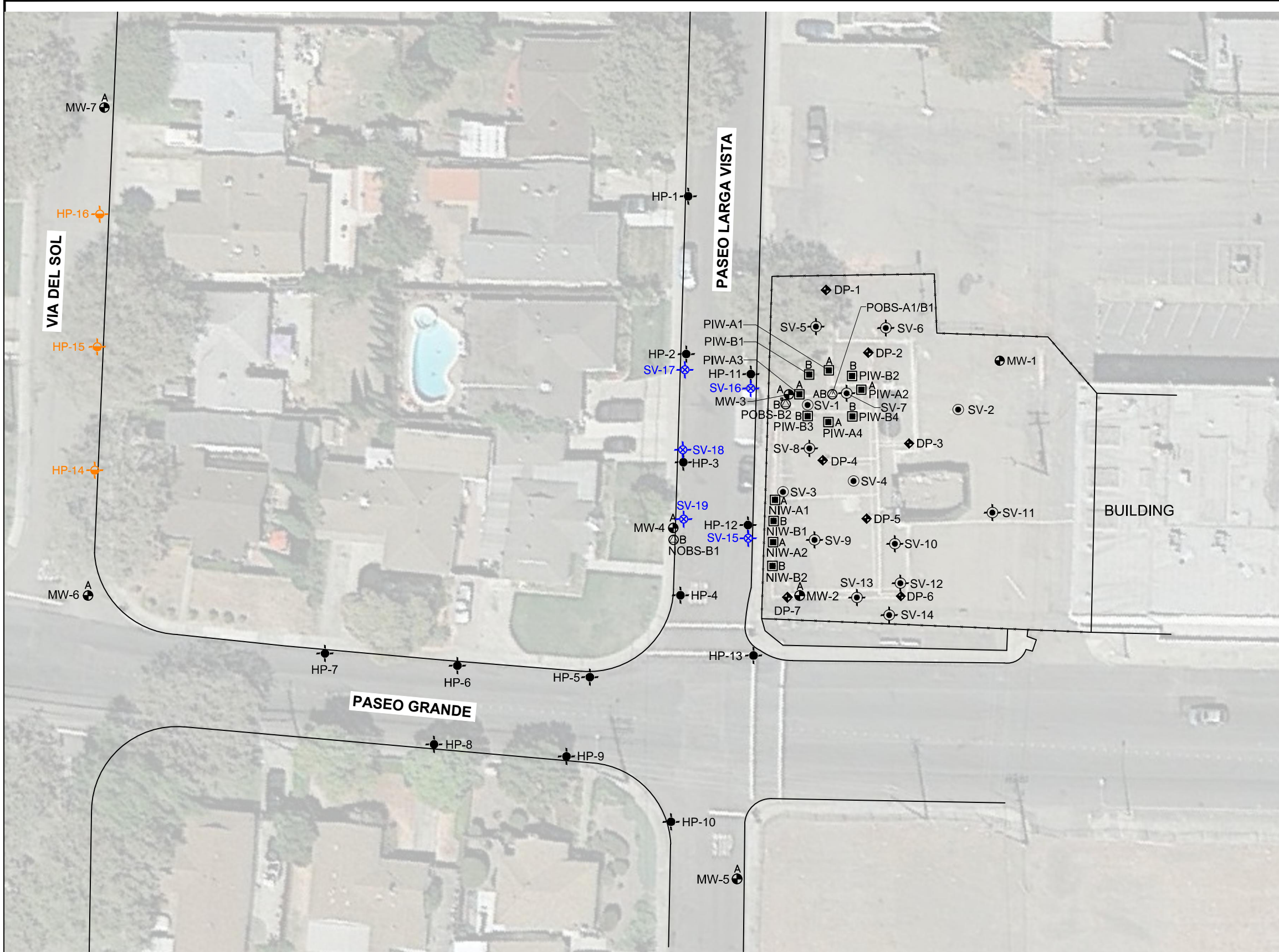
Table 5 – Soil Sample TPH-G and BTEX Analytical Results for Soil Vapor Well Installation

Table 6 – Off-Site Grab Groundwater Sample TPH-G and BTEX Analytical Results

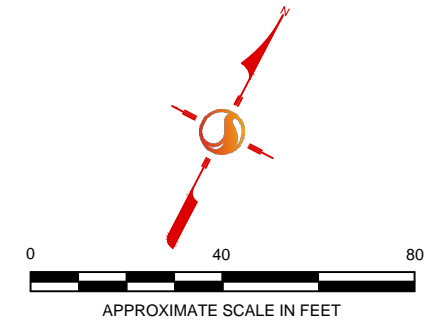
Table 7 – Groundwater Analytical Results – September 2014 and Historical

- c. Mr. Andrew A. Bassak, Manatt, Phelps, and Phillips LLP  
Mr. Robert L. Webster, David D. Bohannon Organization

he document2



- LEGEND**
- HP-15 GROUNDWATER SAMPLE LOCATION (STANTEC 2014)
  - SV-5 SOIL VAPOR PROBE LOCATION (STANTEC 2014)
  - MW-1 MONITORING WELL
  - PIW-B3 INJECTION WELL
  - DP-1 DUAL-PHASE EXTRACTION WELL (8" PVC - BY SECOR, 2005)
  - NOBS-B1 OBSERVATION WELL
  - SV-1 SOIL VAPOR SAMPLE LOCATION (STANTEC, 2011)
  - SV-5 SOIL VAPOR SAMPLE LOCATION AND SOIL BORING LOCATION
  - HP-1 SOIL BORING/ HYDROPUNCH SAMPLE LOCATION
  - FENCE LINE
- WELL DESIGNATION**
- A = INDICATES WELL IN THE A-ZONE
  - B = INDICATES WELL IN THE B-ZONE



	FOR: DAVID D. BOHANNON ORGANIZATION 575 PASEO GRANDE SAN LORENZO, CALIFORNIA		<b>SOIL VAPOR AND GRAB GROUNDWATER SAMPLING LOCATIONS</b>		FIGURE: <b>1</b>
	JOB NUMBER: 185702534.200.0003	DRAWN BY: RRR/STA	CHECKED BY: EH	APPROVED BY: CRM	DATE: 01/28/15



- LEGEND**
- HP-15 GROUNDWATER SAMPLE LOCATION (STANTEC 2014)
  - SV-5 SOIL VAPOR PROBE LOCATION (STANTEC 2014)
  - MW-1 MONITORING WELL
  - PIW-B3 INJECTION WELL
  - DP-1 DUAL-PHASE EXTRACTION WELL (8" PVC - BY SECOR, 2005)
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  - SV-5 SOIL VAPOR SAMPLE LOCATION AND SOIL BORING LOCATION
  - HP-1 SOIL BORING/ HYDROPUNCH SAMPLE LOCATION
  - FENCE LINE

**WELL DESIGNATION**

A = INDICATES WELL IN THE A-ZONE  
 B = INDICATES WELL IN THE B-ZONE

SAMPLE DEPTH (ft. bgs)

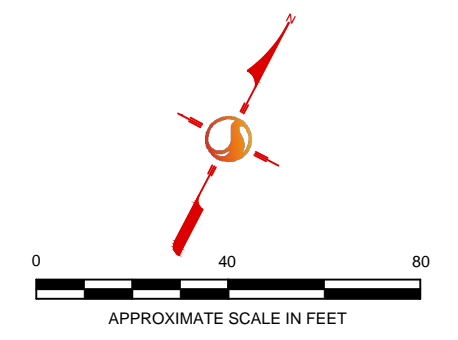
DEPTH	TPH-G	BENZENE
11 - 15	ND<50	ND<0.5

CONCENTRATIONS (µg/L)

(ft. bgs) = FEET BELOW GROUND SURFACE  
 ug/L = MICROGRAMS PER LITER  
 TPH-G = TOTAL PETROLEUM HYDROCARBONS, GASOLINE RANGE  
 ND = NOT DETECTED

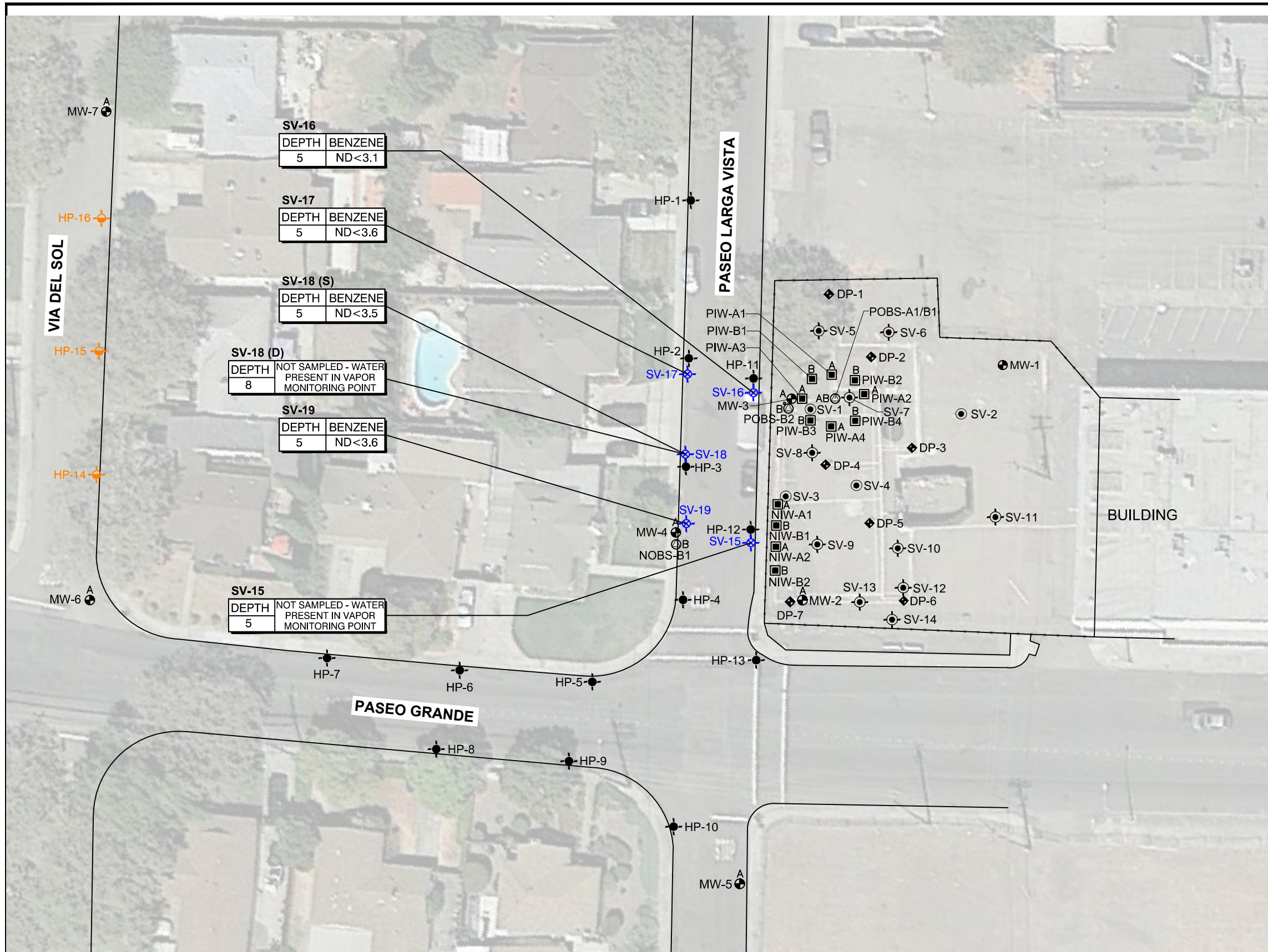
SAMPLES COLLECTED OCTOBER 15, 2014

**DRAFT**



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	FOR: DAVID D. BOHANNON ORGANIZATION 575 PASEO GRANDE SAN LORENZO, CALIFORNIA		<b>GRAB GROUNDWATER          SAMPLE RESULTS</b>		FIGURE: <b>2</b>
	JOB NUMBER: 185702534.200.0003	DRAWN BY: RRR/STA	CHECKED BY: EH	APPROVED BY: CRM	DATE: 01/28/15



- LEGEND**
- HP-15 GROUNDWATER SAMPLE LOCATION (STANTEC 2014)
  - SV-5 SOIL VAPOR PROBE LOCATION (STANTEC 2014)
  - MW-1 MONITORING WELL
  - PIW-B3 INJECTION WELL
  - DP-1 DUAL-PHASE EXTRACTION WELL (8" PVC - BY SECOR, 2005)
  - NOBS-B1 OBSERVATION WELL
  - SV-1 SOIL VAPOR SAMPLE LOCATION (STANTEC, 2011)
  - SV-5 SOIL VAPOR SAMPLE LOCATION AND SOIL BORING LOCATION
  - HP-1 SOIL BORING/ HYDROPUNCH SAMPLE LOCATION
  - FENCE LINE

**WELL DESIGNATION**

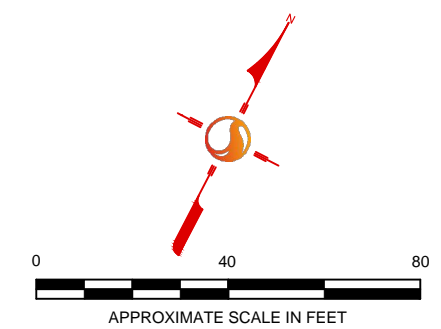
A = INDICATES WELL IN THE A-ZONE  
 B = INDICATES WELL IN THE B-ZONE

SAMPLE DEPTH (ft. bgs)	DEPTH	BENZENE	CONCENTRATION (ug/m <sup>3</sup> )
5	5	ND<3.6	(ug/m <sup>3</sup> )

(ft. bgs) = FEET BELOW GROUND SURFACE  
 ug/m<sup>3</sup> = MICROGRAMS PER CUBIC METER  
 ND< = ANALYTE NOT DETECTED ABOVE RESPECTIVE LABORATORY REPORTING LIMIT

**NOTE:**  
**BOLD INDICATED DETECTED CONCENTRATION**  
 SAMPLES COLLECTED JANUARY 6, 2015

**DRAFT**



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	FOR: DAVID D. BOHANNON ORGANIZATION 575 PASEO GRANDE SAN LORENZO, CALIFORNIA		<b>SOIL VAPOR SAMPLE RESULTS</b>		FIGURE: <b>3</b>
	JOB NUMBER: 185702534.200.0003	DRAWN BY: RRR/STA	CHECKED BY: EH	APPROVED BY: CRM	DATE: 01/28/15

**TABLE 1 - DRAFT**  
**On-Site Soil Sample TPH-G and BTEX Analytical Results**  
**David D. Bohannon Organization**  
**575 Paseo Grande, San Lorenzo, CA**

Boring Location	Sample Depth (ft. bgs)	Soil Type	PID	Date Sampled	TPH-G (µg/kg)	Benzene (µg/kg)	Ethylbenzene (µg/kg)	Toluene (µg/kg)	Total Xylenes (µg/kg)
<b>Soil Vapor Borings</b>									
SV-5	4	silty sand	800	05/22/14	<180	<3.8	<3.8	<3.8	<7.7
	8.5	clay	466	05/22/14	<b>210,000</b>	<400	<400	<400	<800
SV-6	4	sandy silt	2	05/21/14	<150	<3.1	<3.1	<3.1	<6.2
	9	clay	7	05/21/14	<b>1,400</b>	<4.1	<4.1	<4.1	<8.3
SV-7	5	old fill - sandy silt	0	05/22/14	<230	<4.7	<4.7	<4.7	<9.3
SV-8	5.5	old fill - sandy silt	0	05/22/14	<190	<3.8	<3.8	<3.8	<7.6
	8	clay	602	05/22/14	<b>1,100,000</b>	<380	<380	<380	<760
SV-9	4.5	silty clay	0	05/20/14	<170	<3.5	<3.5	<3.5	<7.0
	8	silty clay	597	05/20/14	<b>920,000</b>	<b>1,300</b>	<b>14,000</b>	<440	<b>2,700</b>
SV-10	6.5	clay	54	05/19/14	<b>3,500</b>	5.5	<3.8	<3.8	<7.6
SV-11	10	clay	189	05/19/14	<b>95,000</b>	<470	<470	<470	<950
SV-12	5.5	Fill - silty grvl	0	05/20/14	<180	<3.5	<3.5	<3.5	<7.1
	8.5	clay	701	05/20/14	<b>180,000</b>	<440	<440	<440	<890
SV-13	10	clay	466	05/21/14	<b>540,000</b>	<380	<380	<380	<750
SV-14	3	sandy silt	175	05/16/14	<b>2,500,000</b>	<480	<480	<480	<950
	6	clay	853	05/16/14	<b>110,000</b>	<500	<500	<500	<1000
		LTC-Residential	0 to 5 ft. bgs		--	1,900	21,000	--	--
		LTC-Residential	5 to 10 ft. bgs		--	2,800	32,000	--	--

**Notes and Abbreviations:**

mg/kg = micrograms per kilogram

LTC = Low threat closure criteria (California Regional Water Quality Control Board)

TPH-G = Total Petroleum Hydrocarbons, Gasoline Range

BTEX = Benzene, toluene, ethyl benzene, and xylenes

ND< = Analyte not detected above respective laboratory reporting limit.

**Bold** indicates detected concentration.

ft. bgs = feet below ground surface

-- = not applicable



**TABLE 2 - DRAFT**  
**On-Site Soil Sample PAH Analytical Results**  
**David D. Bohannon Organization**  
**575 Paseo Grande, San Lorenzo, CA**

Boring Location	Sample Depth (ft. bgs)	Date Sampled	PAH Analysis in µg/kg													
			Naphthalene	BaPe	Anthracene	Benzo(a)anthracene*	Benzo(a)pyrene*	Benzo(b)fluoranthene*	Benzo(g,h,i)perylene*	Benzo(k)fluoranthene*	Chrysene*	Dibenz(a,h)anthracene*	Fluoranthene	Indeno(1,2,3-cd)pyrene*	Phenanthrene	Pyrene
<b>Soil Vapor Borings</b>																
SV-10	6.5	05/19/14	<b>28</b>	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
SV-11	10	05/19/14	<b>8.3</b>	--	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9	ND<4.9
SV-12	5.5	05/20/14	ND<200	<b>2.8</b>	<b>260</b>	<b>1,800</b>	<b>1,800</b>	<b>2,700</b>	<b>1,000</b>	<b>1,100</b>	<b>2,300</b>	<b>280</b>	<b>3,800</b>	<b>930</b>	<b>710</b>	<b>3,200</b>
	8.5	05/20/14	<b>2,400</b>	--	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0
LTC- Residential	0 to 5 ft. bgs		9,700	63	--	--	--	--	--	--	--	--	--	--	--	--
LTC- Residential	5 to 10 ft. bgs		9,700	--	--	--	--	--	--	--	--	--	--	--	--	--
LTC- Comercial	0 to 5 ft. bgs		45,000	68	--	--	--	--	--	--	--	--	--	--	--	--
LTC- Comercial	5 to 10 ft. bgs		45,000	--	--	--	--	--	--	--	--	--	--	--	--	--

**Notes and Abbreviations:**

µg/kg = micrograms per kilogram

LTC = Low threat closure criteria (California Regional Water Quality Control Board)

ft. bgs = feet below ground surface

Bold indicates detected concentration.

PAH: Polyaromatic Hydrocarbons by EPA Method 8270C-SIM

BaPe: Benzo(a)pyrene and equivalents calculated using the NEPM 2013Schedule B(1) benzo(a)pyrene potency equivalency factor for each carcinogenic PAH.

\* : PAH used in calculating BaPe

--- = not applicable

ND< = Analyte not detected above respective laboratory reporting limit.

**TABLE 3 - DRAFT**  
**Soil Vapor Analytical Results**  
**David D. Bohannon Organization**  
**575 Paseo Grande, San Lorenzo, California**

Sample ID	Sample Date	Tubing Diameter (inches)	Sample Depth (ft. bgs)	Volatile Organic Compounds (VOCs) by TO-15 (µg/m <sup>3</sup> )														Naphthalene by TO-17 (µg/m <sup>3</sup> )	Oxygen (%)	Nitrogen (%)	Carbon Dioxide (%)	Methane (%)	Helium (%)	
				Dichlorodifluoromethane (Freon 12)	Ethanol	Acetone	Methylene Chloride	Hexane	2-Butanone (Methyl Ethyl Ketone)	Cyclohexane	2,2,4-Trimethyl-pentane	Benzene	Heptane	Toluene	Tetrachloro-ethene (PCE)	Chloro-benzene	o-Xylene							Naphthalene
SV-1	4/4/2011	0.25	3	ND<6.1	<b>30<sup>J</sup></b>	<b>39</b>	<b>4.6</b>	--	<b>28</b>	ND<4.3	ND<5.8	<b>11</b>	--	<b>72</b>	<b>11</b>	<b>110</b>	<b>11</b>	--	--	--	--	--	ND<0.12	
SV-1	5/29/2014	0.25	3	ND<5.8	ND<8.8	ND<28	ND<40	ND<4.1	ND<14	ND<4.0	ND<5.4	ND<3.7	ND<4.8	ND<4.4	ND<7.9	ND<5.4	MD<5.0	ND<24	<b>5.2</b>	9.7	83	7.7	ND<0.00044	ND<0.22
SV-2	4/4/2011	0.25	3	ND<5.5	<b>45<sup>J</sup></b>	<b>29</b>	ND<3.9	--	<b>16</b>	ND<3.8	ND<5.2	<b>12</b>	--	<b>84</b>	<b>19</b>	<b>120</b>	<b>11</b>	--	--	--	--	--	ND<0.11	
SV-2	5/29/2014	0.25	3	ND<5.9	ND<9.0	<b>40</b>	ND<41	ND<4.2	ND<14	ND<4.1	ND<5.6	ND<3.8	ND<4.9	ND<4.5	<b>41</b>	ND<5.5	ND<5.2	ND<25	ND<5.0	10	84	6.1	ND<0.00024	ND<0.12
SV-3	4/4/2011	0.25	3	<b>34</b>	ND<18	<b>40</b>	ND<8.3	--	<b>130</b>	<b>38</b>	<b>860</b>	<b>25</b>	--	<b>120</b>	ND<16	<b>150</b>	<b>19</b>	--	--	--	--	--	ND<0.12	
SV-3	5/29/2014	0.25	3	<b>6.0</b>	ND<9.2	ND<29	ND<42	ND<4.3	ND<14	ND<4.2	ND<5.7	ND<3.9	ND<5.0	ND<5.5	ND<8.3	ND<5.6	ND<5.3	ND<26	ND<5.0	14	82	4.5	ND<0.00024	ND<0.12
SV-4	4/4/2011	0.25	3	ND<6.6	<b>53<sup>J</sup></b>	<b>36</b>	ND<4.6	--	<b>83</b>	ND<4.6	ND<6.2	<b>18</b>	--	<b>120</b>	ND<9.0	<b>150</b>	<b>17</b>	--	--	--	--	--	ND<0.13	
SV-4	5/29/2014	0.25	3	ND<120	ND<180	ND<560	ND<810	ND<82	ND<280	ND<80	<b>18,000 E</b>	<b>64</b>	ND<96	ND<88	ND<160	ND<110	ND<100	ND<490	ND<5.0	1.3	78	19	1.2	ND<0.22
SV-5	5/29/2014	0.25	5	ND<5.5	<b>9.0</b>	<b>29</b>	ND<39	ND<3.9	ND<13	ND<3.8	ND<5.2	ND<3.6	ND<4.6	ND<4.2	ND<7.6	ND<5.1	ND<4.8	ND<23	ND<5.0	10	79	9.6	0.001	0.92
SV-6	5/29/2014	0.25	5	ND<5.7	ND<8.7	ND<27	ND<40	ND<4.0	ND<14	ND<7.2	ND<5.4	ND<3.7	ND<4.7	ND<4.3	ND<7.8	ND<5.3	ND<5.0	ND<24	ND<5.0	3.3	87	10	0.00031	ND<0.12
SV-7	5/29/2014	0.25	5	ND<1100	ND<1600	ND<2100	ND<7500	<b>9,100</b>	ND<2500	<b>6,400</b>	<b>170,000</b>	ND<690	<b>9,400</b>	<b>1,400</b>	ND<1400	ND<990	ND<930	ND<4500	ND<5.0	5.9	84	10	0.017	ND<0.11
SV-8	5/29/2014	0.25	5	ND<5.5	ND<8.4	ND<27	ND<39	<b>26</b>	ND<13	<b>34</b>	<b>250</b>	ND<3.6	<b>18</b>	ND<4.2	ND<7.6	ND<5.2	ND<4.9	ND<23	ND<5.0	8.1	83	8.8	0.0008	0.13
SV-9	5/29/2014	0.25	5	<b>14</b>	ND<8.0	<b>34</b>	ND<37	ND<3.8	<b>13</b>	ND<3.7	ND<5.0	ND<3.4	ND<4.4	ND<4.0	ND<7.2	ND<8.2	ND<4.6	ND<22	ND<5.0	6.4	84	9.0	0.0016	ND<0.11
SV-10	5/29/2014	0.25	5	ND<2200	ND<3400	ND<11000	ND<16000	<b>20,000</b>	ND<5300	<b>11,000</b>	<b>16,000</b>	ND<1400	<b>8,000</b>	<b>1,700</b>	ND<3000	ND<2100	ND<1900	ND<9400	ND<5.0	1.4	83	15	0.52	ND<0.11
SV-11	5/29/2014	0.25	5	<b>6.0</b>	ND<8.6	ND<27	ND<40	<b>6.1</b>	ND<13	<b>10</b>	ND<5.3	<b>15</b>	ND<4.7	<b>4.6</b>	160	ND<5.2	ND<5.0	ND<24	ND<5.0	9.8	88	1.9	ND<0.00023	ND<0.11
SV-12	5/29/2014	0.25	5	<b>21</b>	ND<8.6	ND<27	ND<40	<b>60</b>	ND<13	<b>53</b>	<b>54</b>	<b>4.5</b>	<b>28</b>	ND<4.3	<b>9.4</b>	ND<5.2	ND<5.0	ND<24	ND<5.0	9.6	84	6.5	0.0026	ND<0.11
SV-13	5/29/2014	0.25	5	<b>14</b>	<b>8.7</b>	<b>40</b>	ND<39	ND<4.0	<b>15</b>	ND<3.9	ND<5.2	ND<3.6	ND<4.6	ND<4.2	ND<7.6	ND<5.2	ND<4.9	ND<24	ND<5.0	7.3	84	8.3	ND<0.00022	ND<0.11
SV-14	5/29/2014	0.25	5	ND<570	ND<870	ND<2700	ND<4000	<b>29,000</b>	ND<1400	<b>6,900</b>	<b>68,000</b>	<b>400</b>	<b>18,000</b>	<b>820</b>	ND<780	ND<530	ND<500	ND<2400	<b>15</b>	10	83	6.6	0.56	ND<0.12
SV-16	1/6/2015	0.25	5	ND<4.7	<b>8.1</b>	<b>26</b>	ND<33	ND<3.4	ND<11	ND<3.3	ND<4.5	ND<3.1	ND<3.9	ND<3.6	ND<6.5	ND<4.4	ND<4.2	ND<20	ND<5.0	--	--	--	--	ND<0.12
SV-17	1/6/2015	0.25	5	ND<5.7	ND<8.6	ND<27	ND<40	ND<4.0	ND<14	ND<3.9	ND<5.3	ND<3.6	ND<4.7	ND<4.3	ND<7.8	ND<5.3	ND<5.0	ND<24	ND<5.0	--	--	--	--	ND<0.12
SV-18 S	1/6/2015	0.25	5	ND<5.4	ND<8.2	ND<26	ND<38	<b>9.8</b>	ND<13	<b>13</b>	ND<5.1	ND<3.5	<b>8.8</b>	ND<4.1	ND<7.4	ND<5.0	ND<4.8	ND<23	ND<5.0	--	--	--	--	ND<0.12
SV-19	1/6/2015	0.25	5	ND<5.5	ND<8.4	ND<26	ND<39	ND<3.9	ND<13	ND<3.8	ND<5.2	ND<3.6	ND<4.6	ND<4.2	ND<7.6	ND<5.1	ND<4.8	ND<23	ND<5.0	--	--	--	--	ND<0.12
LTC - Residential				---	---	---	---	---	---	---	---	85	---	---	---	---	---	93	93	---	---	---	---	---
LTC - Industrial				---	---	---	---	---	---	---	---	280	---	---	---	---	---	310	310	---	---	---	---	---

**Notes and Abbreviations:**

Only detected analytes are included  
 ft. bgs = feet below ground surface  
 µg/m<sup>3</sup> = micrograms per cubic meter  
 % = percent  
**Bold** indicates detected concentration.

LTC = Low threat closure criteria (California Regional Water Quality Control Board)  
 J = Laboratory estimated value, between the method detection limit and the method quantifica  
 E = Exceeds instrument calibration range.  
 ND< = Analyte not detected above respective laboratory reporting limit.  
 --- = not applicable

**TABLE 4 - DRAFT**  
**Off-site Soil Sample TPH-G and BTEX Analytical Results**  
**David D. Bohannon Organization**  
**575 Paseo Grande, San Lorenzo, CA**

Boring Location	Sample Depth (ft. bgs)	Date Sampled	TPH-G (µg/kg)	Benzene (µg/kg)	Ethylbenzene (µg/kg)	Toluene (µg/kg)	Total Xylenes (µg/kg)
<b>Hydropunch Locations</b>							
HP-1	3	05/16/14	<180	<3.5	<3.5	<3.5	<7.1
	5.5	05/16/14	<170	<4.2	<4.2	<4.2	<8.5
	11	05/16/14	<160	<4.0	<4.0	<4.0	<8.0
HP-2	2	05/19/14	<150	<3.0	<3.0	<3.0	<5.9
	9	05/19/14	<b>340,000</b>	<360	<360	<360	<720
	12	05/19/14	<b>330,000</b>	<390	<b>1,200</b>	<390	<780
HP-3	4	05/19/14	<180	<3.7	<3.7	<3.7	<7.4
	9	05/19/14	<b>310,000</b>	<390	<390	<390	<790
	12	05/19/14	<b>1,100,000</b>	<360	<360	<360	<710
HP-4	4	05/19/14	<200	<4.1	<4.1	<4.1	<8.1
	8	05/19/14	<230	<4.6	<4.6	<4.6	<9.2
	12	05/19/14	<170	<3.5	<3.5	<3.5	<7.0
HP-5	4	05/20/14	<220	<4.4	<4.4	<4.4	<8.8
	8	05/20/14	<220	<4.5	<4.5	<4.5	<8.9
	12	05/20/14	<180	<3.5	<3.5	<3.5	<7.1
HP-6	4	05/20/14	<190	<3.8	<3.8	<3.8	<7.7
	8	05/20/14	<170	<3.3	<3.3	<3.3	<6.7
	11	05/20/14	<240	<4.8	<4.8	<4.8	<9.5
HP-7	4	05/20/14	<220	<4.4	<4.4	<4.4	<8.9
	8	05/20/14	<240	<4.8	<4.8	<4.8	<9.6
	11	05/20/14	<190	<3.8	<3.8	<3.8	<7.6
HP-8	4	05/21/14	<190	<3.8	<3.8	<3.8	<7.7
	8	05/21/14	<170	<3.5	<3.5	<3.5	<6.9
	11.5	05/21/14	<250	<5.0	<5.0	<5.0	<10
HP-9	4	05/21/14	<230	<4.6	<4.6	<4.6	<9.2
	8	05/21/14	<200	<3.9	<3.9	<3.9	<7.9
	12	05/21/14	<180	<3.6	<3.6	<3.6	<7.2
HP-10	4	05/21/14	<190	<3.8	<3.8	<3.8	<7.6
	8	05/21/14	<180	<3.5	<3.5	<3.5	<7.0
	11.5	05/21/14	<170	<3.4	<3.4	<3.4	<6.8
HP-11	3	05/16/14	<210	<4.3	<4.3	<4.3	<8.5
	5	05/16/14	<b>1,000,000</b>	<370	<b>470</b>	<370	<730
	12	05/16/14	<b>2,300,000</b>	<b>1,900</b>	<b>26,000</b>	<b>1,900</b>	<b>15,000</b>
HP-12	3	05/16/14	<170	<3.4	<3.4	<3.4	<6.9
	8	05/16/14	<b>190,000</b>	<390	<390	<390	<790
	11	05/16/14	<b>170,000</b>	<420	<420	<420	<840
HP-13	4	05/19/14	<200	<4.0	<4.0	<4.0	<7.9
	8	05/19/14	<280	<5.6	<5.6	<5.6	<11
	12	05/19/14	<190	<3.8	<3.8	<3.9	<7.6
<i>LTC-Residential</i>		<i>0 to 5 ft. bgs</i>	--	<i>1,900</i>	<i>21,000</i>	--	--
<i>LTC-Residential</i>		<i>5 to 10 ft. bgs</i>	--	<i>2,800</i>	<i>32,000</i>	--	--

**Notes and Abbreviations:**

µg/kg = micrograms per kilogram

TPH-G = Total Petroleum Hydrocarbons, Gasoline Range

BTEX = Benzene, toluene, ethyl benzene, and xylenes

LTC = Low threat closure criteria (California Regional Water Quality Control Board)

LTC-Residential = residential scenario

**Bold** indicates detected concentration.

ft. bgs = feet below ground surface

--- = not applicable

**TABLE 5 - DRAFT**  
**Soil Sample TPH-G and BTEX Analytical Results for Soil Vapor Well Installation**  
**David D. Bohannon Organization**  
**575 Paseo Grande, San Lorenzo, CA**

Boring Location	Sample Depth (ft. bgs)	Date Sampled	TPH-G (µg/kg)	Benzene (µg/kg)	Ethylbenzene (µg/kg)	Toluene (µg/kg)	Total Xylenes (µg/kg)	Naphthalene (µg/kg)
<b>Soil Vapor Well Locations</b>								
SV-15	4.5	11/13/14	<200	<4.1	<4.1	<4.1	<8.2	<8.2
SV-16	4.5	11/13/14	<190	<3.7	<3.7	<3.7	<7.5	<7.5
SV-17	4.5	11/13/14	<190	<3.8	<3.8	<3.8	<7.6	<7.6
SV-18	4.5	11/13/14	<180	<3.6	<3.6	<3.6	<7.2	<7.2
SV-19	4.5	11/13/14	<170	<3.3	<3.3	<3.3	<6.7	<6.7
<i>LTC-Residential 0 to 5 ft. bgs</i>			--	<b>1,900</b>	<b>21,000</b>	--	--	--
<i>LTC-Residential 5 to 10 ft. bgs</i>			--	<b>2,800</b>	<b>32,000</b>	--	--	--

**Notes and Abbreviations:**

µg/kg = micrograms per kilogram

TPH-G = Total Petroleum Hydrocarbons, Gasoline Range

BTEX = Benzene, toluene, ethyl benzene, and xylenes

LTC = Low threat closure criteria (California Regional Water Quality Control Board)

LTC-Residential = residential scenario

**Bold** indicates detected concentration.

ft. bgs = feet below ground surface

-- = not applicable

**TABLE 6 - DRAFT**  
**Off-Site Grab Groundwater Sample TPH-G and BTEX Analytical Results**  
**David D. Bohannon Organization**  
**575 Paseo Grande, San Lorenzo, CA**

Boring Location	Sample Depth (ft. bgs)	Date Sampled	TPH-G (µg/L)	Benzene (µg/L)	Ethylbenzene (µg/L)	Toluene (µg/L)	Total Xylenes (µg/L)
<b>Hydropunch Locations</b>							
HP-2	12-15	05/19/14	<b>290,000</b>	<50	<b>2,300</b>	<b>76</b>	<b>240</b>
HP-3	12-15	05/19/14	<b>10,000</b>	<b>1,400</b>	<b>7.4</b>	<b>19</b>	<b>24</b>
HP-4	12-15	05/19/14	<50	<0.5	<0.5	<0.5	<1.0
HP-5	12-15	05/20/14	<50	<0.5	<0.5	<0.5	<1.0
HP-6	11-15	05/20/14	<50	<0.5	<0.5	<0.5	<1.0
HP-7	10-15	05/20/14	<50	<0.5	<0.5	<0.5	<1.0
HP-8	12-15	05/21/14	<50	<0.5	<0.5	<0.5	<1.0
HP-9	12-15	05/21/14	<50	<0.5	<0.5	<0.5	<1.0
HP-11	9-15	05/16/14	<b>180,000</b>	<b>710</b>	<b>1,700</b>	<b>200</b>	<b>670</b>
HP-12	12-15	05/16/14	<b>6,600</b>	<5.0	<b>21</b>	<5.0	<b>11</b>
HP-13	12-15	05/19/14	<b>58</b>	<0.5	<b>0.67</b>	<0.5	<1.0
HP-14	15-20	10/15/14	<50	<0.5	<0.5	<0.5	<1.0
HP-15	11-15	10/15/14	<50	<0.5	<0.5	<0.5	<1.0
HP-16	12-15	10/15/14	<50	<0.5	<0.5	<0.5	<1.0
<i>LTC - Groundwater</i>			--	3000	--	--	--
<i>LTC - Vapor Intrusion</i>			--	1000	--	--	--

**Notes and Abbreviations:**

ft. bgs = feet below ground surface

µg/L = micrograms per liter

TPH-G = Total Petroleum Hydrocarbons, Gasoline Range

LTC = Low threat closure criteria (California Regional Water Quality Control Board)

**Bold** indicates detected concentration.

--- = not applicable

**TABLE 7 - DRAFT**  
**Groundwater Analytical Results - September 2014 and Historical**  
**David D. Bohannon Organization**  
**575 Paseo Grande, San Lorenzo, CA**

Well	Date Sampled	TPH-G (mg/L)	Benzene (µg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Chromium (mg/L)	Inorganic Lead (mg/L)
<b>Groundwater Monitoring Wells</b>									
MW-1	05/17/96	<b>1,100</b>	<0.5	<b>8.7</b>	<b>7.4</b>	<b>17</b>	--	<10	<50
	10/08/96	<b>120</b>	<0.5	<0.5	<b>2.7</b>	<0.5	--	--	--
	04/01/97	<b>550</b>	<0.5	<0.5	<b>7.6</b>	<b>6.6</b>	--	--	--
	06/12/97	<b>160</b>	<0.5	<0.5	<b>2.9</b>	<b>1.7</b>	--	--	--
	09/10/97	<b>640</b>	<b>2.2</b>	<b>3.8</b>	<b>7.4</b>	<b>16</b>	--	--	--
	06/08/99	<50	<0.5	<0.5	<0.5	<0.5	<10	<10	<20
	09/13/99	<50	<0.5	<0.5	<0.5	<b>1.1</b>	--	--	<5
	12/21/99	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	03/17/00	<50	<0.5	<0.5	<0.5	<b>0.79</b>	<5	--	<5
	12/05/00	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	02/28/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	<5	--	<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/29/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--
	06/18/04	<b>150</b>	<b>1.5</b>	<0.5	<b>2.7</b>	<b>2.4</b>	--	--	--
	05/27/05	<50	<b>1.6</b>	<0.5	<0.5	<0.5	--	--	--
08/24/06	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	
01/13/10	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	
05/03/12	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	
11/15/12	<50	<0.5	<0.5	<0.5	<0.5	<0.5-1.0	--	--	
12/12/13	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	
03/26/14	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	
09/30/14	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	
MW-2	05/17/96	<b>23,000</b>	<b>900</b>	<b>330</b>	<b>650</b>	<b>1,500</b>	--	<10	<50
	10/08/96	<b>8,400</b>	<b>530</b>	<50	<b>400</b>	<b>360</b>	--	--	--
	04/01/97	<b>7,600</b>	<b>470</b>	<b>64</b>	<b>210</b>	<b>250</b>	--	--	--
	06/12/97	<b>8,200</b>	<b>440</b>	<b>52</b>	<b>190</b>	<b>190</b>	--	--	--
	09/10/97	<b>8,500</b>	<b>390</b>	<b>51</b>	<b>220</b>	<b>240</b>	--	--	--
	06/08/99	<b>2,100</b>	<b>240</b>	<b>8</b>	<b>33</b>	<b>40</b>	<10	<10	<b>33</b>
	09/13/99	<b>1,300</b>	<b>120</b>	<5	<5	<b>15</b>	--	--	--
	12/21/99	<b>1,400</b>	<b>110</b>	<b>5.6</b>	<b>11</b>	<b>17</b>	--	--	<5
	03/17/00	<b>1,200</b>	<b>180</b>	<b>19</b>	<b>28</b>	<b>31</b>	<50	--	<5
	12/05/00	<b>800</b>	<b>75</b>	<b>1.8</b>	<b>11</b>	<b>14</b>	--	--	--
	02/28/01	<b>1,200</b>	<b>120</b>	<b>7.1</b>	<b>19</b>	<b>27</b>	--	--	--
	08/22/01	<b>990</b>	<b>75</b>	<b>3.5</b>	<b>8.9</b>	<b>8.1</b>	<5	--	<5
	05/22/02	<b>1,700</b>	<b>230</b>	<b>12</b>	<b>12</b>	<b>25</b>	--	--	--
	08/29/02	<b>1,000</b>	<b>66</b>	<b>2.6</b>	<b>12</b>	<b>12</b>	--	--	--
	12/02/02	<b>1,100</b>	<b>76</b>	<b>8.7</b>	<b>11</b>	<b>17</b>	--	--	--
	03/04/03	<b>1,100</b>	<b>130</b>	<b>4.5</b>	<b>22</b>	<b>24</b>	--	--	--
	12/18/03	<b>910</b>	<b>55</b>	<b>4.1</b>	<b>3.3</b>	<b>3.7</b>	--	--	--
	04/13/04	<b>2,700</b>	<b>350</b>	<b>15</b>	<b>18</b>	<b>24</b>	--	--	--
	10/05/04	<b>2,000</b>	<b>120</b>	<b>5.5</b>	<2.5	<b>8.3</b>	--	--	--
	05/27/05	<b>5,700</b>	<b>450</b>	<b>53</b>	<b>240</b>	<b>71</b>	--	--	--
08/24/06	<b>1,400</b>	<b>90</b>	<b>4.7</b>	<b>16</b>	<b>21</b>	--	--	--	
01/13/10	<b>130<sup>J</sup></b>	<b>1.2</b>	<0.5	<0.5	<1.0	--	--	--	
05/03/12	<b>350</b>	<b>22</b>	<0.5	<b>2.1</b>	<1.0	--	--	--	
09/18/12	<b>410</b>	<b>4.7</b>	<0.5	<0.5	<1.0	--	--	--	
11/15/12	<b>350</b>	<b>3.2</b>	<0.5	<0.5	<0.5-1.0	--	--	--	
12/12/13	<b>410</b>	<b>20</b>	<b>1.1</b>	<0.5	<1.0	--	--	--	
03/27/14	<b>450</b>	<b>32</b>	<b>1.1</b>	<b>1.2</b>	<1.0	--	--	--	
09/30/14	<b>2</b>	<b>32</b>	<b>1.1</b>	<b>1.2</b>	<1.0	--	--	--	

**TABLE 7 - DRAFT**  
**Groundwater Analytical Results - September 2014 and Historical**  
**David D. Bohannon Organization**  
**575 Paseo Grande, San Lorenzo, CA**

Well	Date Sampled	TPH-G (mg/L)	Benzene (µg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Chromium (mg/L)	Inorganic Lead (mg/L)
MW-3	05/17/96	6,700	140	45	210	180	--	<10	<50
	10/08/96	1,800	2,700	240	910	970	--	--	--
	04/01/97	27,000	520	50	520	450	--	--	--
	06/12/97	29,000	2,700	160	940	500	--	--	--
	09/10/97	290,000	1,800	3,200	2,800	6,900	--	--	--
	06/08/99	1,700	320	6.4	15	<0.5	<10	<10	24
	09/13/99	5,400	1,000	<20	<20	<20	--	--	--
	12/21/99	8,800	1,400	63	17	23	--	--	<5
	03/17/00	1,500	190	<5	7.6	<5	<50	--	<5
	12/05/00	5,400	790	20	7.4	10	--	--	--
	02/28/01	3,600	850	15	25	10	--	--	--
	08/22/01	8,100	1,600	28	44	17	<50	--	<5
	05/22/02	5,400	1,000	32	13	21	--	--	--
	08/29/02	6,700	1,700	55	49	38	--	--	--
	12/02/02	5,700	650	17	37	33	--	--	--
	03/04/03	5,000	650	18	42	27	--	--	--
	12/18/03	5,200	910	25	20	21	--	--	--
	04/13/04	3,900	1,200	19	<5.0	<10	--	--	--
	06/18/04	4,300	1,600	40	81	26	--	--	--
	08/27/04	6,900	2,100	59	220	<50	--	--	--
	10/05/04	9,800	2,500	52	160	38	--	--	--
	12/02/04	8,300	2,400	41	200	29	--	--	--
	12/14/04	15,000	3,600	140	560	210	--	--	--
	05/27/05	5,500	840	36	210	41	--	--	--
	08/23/06	1,700	190	5.3	51	<10	--	--	--
	01/13/10	<50	2	<0.5	<0.5	<1.0	--	--	--
05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	
09/18/12	480/440	110/100	2.6/2.4	0.66/0.62	1.2/1.1	--	--	--	
11/16/12	66	2.0	<0.5	<0.5	<0.5-1.0	--	--	--	
12/12/13	110	7.0	<0.5	<0.5	<1.0	--	--	--	
03/27/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--	
MW-4	12/05/00	3,900	320	13	41	31	--	--	<5
	02/28/01	3,400	250	14	44	22	--	--	<5
	08/22/01	4,800	260	12	27	9	<50	--	<5
	05/22/02	5,100	320	29	74	50	--	--	--
	08/29/02	3,700	260	<5	30	28	--	--	--
	12/02/02	5,100	250	8.9	26	22	--	--	--
	03/04/03	4,500	170	18	63	47	--	--	--
	12/18/03	2,900	160	8.3	8	<5	--	--	--
	04/13/04	7,400	290	29	110	100	--	--	--
	06/18/04	2,700	140	12	36	16	--	--	--
	08/27/04	460	19	1.2	1.1	1.5	--	--	--
	10/05/04	460	19	<1.0	<1.0	<1.0	--	--	--
	12/02/04	2,800	120	5.4	8.3	5.3	--	--	--
	05/27/05	7,300	350	37	100	50	--	--	--
	08/24/06	2,400	59	8.2	19	14	--	--	--
	01/14/10	400 <sup>J</sup>	1.6	<0.5	<0.5	<1.0	--	--	--
	05/03/12	6,800	190	26	15	25	--	--	--
	06/08/12	3,400	83	11	7.1	11	<0.50	--	--
	09/18/12	1,400	25	4.2	1.2	3.6	--	--	--
	11/15/12	4,000	69	6.4	<2.5	<2.5-5.0	--	--	--
12/11/13	6,900	190	17	3.3	16	--	--	--	
DUP	12/11/13	7,700	240	22	4.2	20	--	--	--
DUP	03/26/14	5,500	130	13	3.9	9.8	--	--	--
DUP	03/26/14	5,500	130	13	4.0	9.5	--	--	--

**TABLE 7 - DRAFT**  
**Groundwater Analytical Results - September 2014 and Historical**  
**David D. Bohannon Organization**  
**575 Paseo Grande, San Lorenzo, CA**

Well	Date Sampled	TPH-G (mg/L)	Benzene (µg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Chromium (mg/L)	Inorganic Lead (mg/L)
MW-5	12/05/00	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5
	02/28/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	<5	--	<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/29/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	12/02/05	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/27/05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	01/14/10	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<0.5	<0.5-1.0	--	--
12/11/13	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	
03/26/14	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	
MW-6	12/05/00	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5
	02/28/01	<50	<0.5	<0.5	<0.5	<0.5	--	--	<5
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	<5	--	<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/29/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/27/05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--
	01/13/10	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<0.5	<0.5-1.0	--	--
12/11/13	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	
03/26/14	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	
MW-7	12/05/00	<50	<0.5	<0.5	<0.5	<b>1.5</b>	--	--	<5
	02/28/01	<50	<0.5	<0.5	<0.5	<b>6.7</b>	--	--	<5
	08/22/01	<50	<0.5	<0.5	<0.5	<0.5	<5	--	<5
	05/22/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/02/02	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	03/04/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	12/18/03	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	04/13/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/27/05	<50	<0.5	<0.5	<0.5	<0.5	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--
	01/13/10	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/04/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<0.5	<0.5-1.0	--	--
	12/11/13	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--
03/26/14	<50	<0.5	<0.5	<0.5	<0.5	<1.0	--	--	



**TABLE 7 - DRAFT**  
**Groundwater Analytical Results - September 2014 and Historical**  
**David D. Bohannon Organization**  
**575 Paseo Grande, San Lorenzo, CA**

Well	Date Sampled	TPH-G (mg/L)	Benzene (µg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Chromium (mg/L)	Inorganic Lead (mg/L)
<b>Peroxide Treatment Area - A Zone Injection Wells</b>									
PIW-A1	05/13/04	6,800	460	50	31	300	--	--	--
	06/18/04	240	10	2.1	4	11	--	--	--
	08/27/04	220	14	1.2	2	5	--	--	--
	10/05/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	12/02/04	640	63	12.0	15	29	--	--	--
PIW-A2	05/13/04	20,000	1,500	460	760	2,600	--	--	--
	06/18/04	2,800	150	14	6.5	90	--	--	--
	08/27/04	500	34	3	4.4	12	--	--	--
	12/02/04	350	6.1	1.2	2.4	5.4	--	--	--
PIW-A3	12/14/04	1,500	220	28	55	99	--	--	--
<b>Peroxide Treatment Area - B Zone Injection Wells</b>									
PIW-B1	05/13/04	1,900	28	<5.0	11	51	--	--	--
	06/18/04	270	22	1	2.2	2.7	--	--	--
	08/27/04	230	11	0.85	1.7	4.3	--	--	--
	12/02/02	66	<0.5	<0.5	<0.5	<1.0	--	--	--
PIW-B3	05/13/04	3,300	420	17	7.8	44	--	--	--
	06/18/04	180	1.2	<0.5	<0.5	2.4	--	--	--
	08/27/04	230	20.0	0.93	3.3	2.9	--	--	--
	12/02/04	64	0.75	<0.5	<0.5	<1.0	--	--	--
<b>Peroxide Treatment Area - A Zone Observation Wells</b>									
POBS-A1	05/13/04	16,000	2,200	220	480	980	--	--	--
	06/18/04	11,000	2,200	150	120	820	--	--	--
	08/27/04	23,000	2,900	140	180	470	--	--	--
	10/05/04	13,000	2,400	83	130	94	--	--	--
	12/02/04	17,000	3,500	240	210	730	--	--	--
	12/14/04	13,000	2,700	200	220	510	--	--	--
	05/27/05	9,600	1,200	62	110	180	--	--	--
	08/24/06	8,500	1,700	58	120	100	--	--	--
	01/13/10	7,300 <sup>J</sup>	1,100	29	53	42	--	--	--
	05/04/12	540	110	2.0	1.4	<1.0	--	--	--
	09/18/12	2,600	1,100	27	8.3	18	--	--	--
	11/16/12	4,700/4,700	1,600/1,700	36/35	6.6/6.3	28.1/27.1	--	--	--
	12/12/13	2,600	1,200	28	<5.0	15	--	--	--
	03/27/14	510	40	1.3	0.72	2.3	--	--	--
<b>Peroxide Treatment Area - B Zone Observation Wells</b>									
POBS-B1	05/13/04	11,000	250	71	160	590	--	--	--
	06/18/04	3,500	9.8	<0.5	0.8	13	--	--	--
	08/27/04	500	1.4	<0.5	<0.5	<1.0	--	--	--
	12/02/04	190	2.6	<0.5	<0.5	<1.0	--	--	--
	05/27/05	68	17.0	<0.5	1.6	0.52	--	--	--
	08/24/06	50	1.1	<0.5	<0.5	<1.0	--	--	--
	05/04/12	<50	0.80	<0.5	<0.5	<1.0	--	--	--
	09/18/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	11/16/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--
	12/12/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	03/27/14	390	63	1.5	0.72	<1.0	--	--	--

**TABLE 7 - DRAFT**  
**Groundwater Analytical Results - September 2014 and Historical**  
**David D. Bohannon Organization**  
**575 Paseo Grande, San Lorenzo, CA**

Well	Date Sampled	TPH-G (mg/L)	Benzene (µg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)	MTBE (mg/L)	Chromium (mg/L)	Inorganic Lead (mg/L)
<b>Peroxide Treatment Area - B Zone Observation Wells (continued)</b>									
POBS-B2	05/13/04	<b>4,500</b>	<b>150</b>	<b>23</b>	<b>11</b>	<b>120</b>	--	--	--
	06/18/04	<b>97</b>	<b>7.4</b>	<b>0.8</b>	<b>1.6</b>	<b>1.7</b>	--	--	--
	08/27/04	<b>240</b>	<b>36.0</b>	<b>1.6</b>	<b>6.7</b>	<b>4.2</b>	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/27/05	<b>97</b>	<b>33.0</b>	<b>0.56</b>	<b>1.3</b>	<b>0.74</b>	--	--	--
	08/24/06	<b>57</b>	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/03/12	<b>83</b>	<b>8.8</b>	<0.5	<0.5	<1.0	--	--	--
	09/18/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	11/16/12	<50	<0.5	<0.5	<0.5	<0.5-1.0	--	--	--
	12/12/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
03/27/14	<50	<b>6.0</b>	<0.5	<0.5	<1.0	--	--	--	
<b>Nitrate Injection Area - A Zone Injection Wells</b>									
NIW-A1	05/13/04	<b>9,300</b>	<b>1,800</b>	<b>59</b>	<b>250</b>	<b>96</b>	--	--	--
	06/18/04	<b>3,100</b>	<b>340</b>	<b>22</b>	<b>93</b>	<b>55</b>	--	--	--
	08/27/04	<b>250</b>	<b>13</b>	<b>1.4</b>	<b>6</b>	<b>5.7</b>	--	--	--
	10/05/04	<b>1,700</b>	<b>150</b>	<5.0	<b>24</b>	<b>12</b>	--	--	--
	12/02/04	<b>1,400</b>	<b>28</b>	<b>6.2</b>	<b>10</b>	<b>23</b>	--	--	--
	05/27/05	<b>14,000</b>	<b>1,300</b>	<b>61.0</b>	<b>680</b>	<b>300</b>	--	--	--
NIW-A2	05/13/04	<b>970</b>	<b>18</b>	<2.5	<2.5	<b>4</b>	--	--	--
	06/18/04	<b>200</b>	<b>6.4</b>	<b>1.7</b>	<b>2.1</b>	<b>3.5</b>	--	--	--
	08/27/04	<500	<b>6.3</b>	<5.0	<5.0	<10	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/27/05	<b>550</b>	<b>14.0</b>	<b>0.7</b>	<b>1.8</b>	<b>0.93</b>	--	--	--
<b>Nitrate Injection Area - B Zone Injection Wells</b>									
NIW-B1	05/13/04	<b>170</b>	<b>6.5</b>	<b>1.1</b>	<b>2.4</b>	<b>8.0</b>	--	--	--
	06/18/04	<b>160</b>	<b>2.9</b>	<b>0.7</b>	<b>2.6</b>	<b>2.5</b>	--	--	--
	08/27/04	<b>110</b>	<b>6.9</b>	<0.5	<b>1.4</b>	<b>2.0</b>	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
NIW-B2	05/13/04	<b>260</b>	<b>8.9</b>	<b>1.5</b>	<b>4</b>	<b>8.4</b>	--	--	--
	06/18/04	<b>120</b>	<b>1.0</b>	<0.5	<b>1.1</b>	<1.0	--	--	--
	08/27/04	<b>120</b>	<b>4.4</b>	<0.5	<b>1.1</b>	<b>1.6</b>	--	--	--
	12/02/04	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
<b>Nitrate Injection Area - Observation Wells</b>									
NOBS-B1	05/13/04	<b>120</b>	<b>4.6</b>	<b>0.8</b>	<b>2.3</b>	<b>5.4</b>	--	--	--
	06/18/04	<b>88</b>	<b>1.9</b>	<b>0.7</b>	<b>1.7</b>	<1.0	--	--	--
	08/27/04	<b>180</b>	<b>5.5</b>	<b>0.53</b>	<b>0.99</b>	<b>1.6</b>	--	--	--
	12/02/04	<50	2.0	<0.5	<0.5	<1.0	--	--	--
	08/24/06	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	05/03/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	09/18/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	11/15/12	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	12/11/13	<50	<0.5	<0.5	<0.5	<1.0	--	--	--
	03/26/14	<50	<0.5	<0.5	<0.5	<1.0	--	--	--

**Abbreviations:**

mg/L = micrograms per liter  
MTBE = methyl tert-butyl ether  
TPH-G = Total Petroleum Hydrocarbons, Gasoline Range  
-- = water sample not analyzed for specified constituents  
DUP = Duplicate

**Notes:**

**Bold** indicates detected concentration.  
J = the chromatograph for this sample does not match the chromatographic pattern of the specified standard