

RECEIVED

By Alameda County Environmental Health at 4:47 pm, Jun 26, 2014

Mr. Jerry Wickham
Alameda County
Environmental Health Department
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

6/23/14


Re: B&C Gas Mini Mart, 2008 First Street, Livermore, California
(ACEHD Case No. RO0000278)

Dear Mr. Wickham:

Stratus Environmental, Inc. (Stratus) has recently prepared a June 2014 *Transmittal of Groundwater Monitoring Data* on my behalf. The report was prepared in regards to Alameda County Fuel Leak Case No. RO0000278, located at 2008 First Street, Livermore, California.

I have reviewed the information provided in this data transmittal, sent to me by representatives of Stratus, and "I declare, under penalty of perjury, that the information and or/recommendations contained in the attached document or report is true and correct to the best of my knowledge."

Sincerely,



Balaji Angle
B&C Gas Mini Mart



3330 Cameron Park Drive Suite 550 Cameron Park CA 95682

Phone: (530) 676-6004 ~ Fax (530) 676-6005

TRANSMITTAL

Date June 23, 2014

To:

Mr. Jerry Wickham

Alameda County Environmental Health Department

1131 Harbor Bay Parkway, Suite 250

Alameda, CA 94502

Re: Transmittal of Groundwater Monitoring Data, ACEHD Fuel Leak Case No. RO0000278, 2008 First Street, Livermore, California

Per your request, in a letter dated May 1, 2014, Stratus conducted a groundwater monitoring event in June 2014 at 2008 First Street in Livermore (the Site, see Figures 1 through 3). In general, the scope of work involved collecting depth to groundwater measurements, correcting this data to elevation mean sea level, and preparing a groundwater elevation contour map (Figure 4). As stated in the May 1, 2014 letter, ACEHD personnel requested that this data be collected to evaluate potential changes to groundwater flow at the subject site due to expected increases in groundwater pumping in the Livermore area due to regional and state-wide drought conditions.

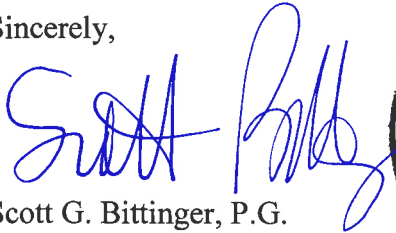
Depth-to-groundwater measurements were collected on June 4, 2014. A field data sheet documenting water level measurements is attached to this transmittal. Since the time of the previous groundwater monitoring event performed in February 2014, groundwater levels have declined approximately 3 to 6 feet in the monitoring well network, but are well within historical water level fluctuation ranges (see Table 1).

Figure 4 presents a depiction of interpreted groundwater flow on June 4, 2014. Given the available data set, west-northwest groundwater flow, at an average gradient of approximately 0.02 ft/ft, was calculated. This observed groundwater flow direction and gradient is generally consistent with the findings of historical work (Jan. 2012 – 0.03 ft/ft; Sept. 2012 – 0.02 ft/ft; March 2013 – 0.02 ft/ft, and Feb. 2014 – 0.02 ft/ft). Given this data set, Stratus has not identified any recent, drought related, site conditions that are anomalous with historical site data that would appear likely to increase dissolved contaminant plume migration in the site vicinity.

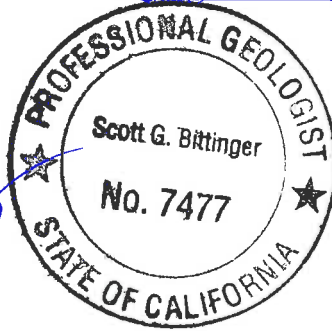
Per your request in the May 2014 letter, Stratus will perform an additional groundwater monitoring event in August 2014, and provide a transmittal that includes pertinent data related to this work.

If you have any questions regarding the enclosed materials, or the site in general, please contact me at (530) 676-2062 or at sbittinger@stratusinc.net.

Sincerely,



Scott G. Bittinger, P.G.
Project Manager



Attachments: Field Data Sheets

- | | |
|----------|---|
| Table 1 | Historical Groundwater Elevation and Analytical Summary
(2007 to 2014) |
| Figure 1 | Site Location Map |
| Figure 2 | Site Plan |
| Figure 3 | Site Vicinity Map |
| Figure 4 | Groundwater Elevation Contour Map, June 4, 2014 |

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	Analytical Summary							
					GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
MS (MW-1)	03/21/07	32.57	477.79	445.22	--	--	--	--	--	--	--	--
	03/23/07	--	--	--	770	1.0	<0.50	<0.50	<0.50	<0.50	--	<5.0
	06/21/07	40.40		437.39	--	--	--	--	--	--	--	--
	09/24/07	48.16		429.63	--	--	--	--	--	--	--	--
	12/17/07	48.35		429.44	--	--	--	--	--	--	--	--
	03/03/08	36.20		441.59	--	--	--	--	--	--	--	--
	06/09/08	41.50		436.29	--	--	--	--	--	--	--	--
	08/26/08	50.58		427.21	--	--	--	--	--	--	--	--
	12/08/08	52.12		425.67	--	--	--	--	--	--	--	--
	12/31/08	--	--	--	--	560	16	0.68	4.6	1.4	11	<0.050

Well Destroyed

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
MW-2	03/21/07	28.77	486.25	457.48	--	--	--	--	--	--	--	--
	03/27/07	--		--	7,800	330	91	810	870	34	--	<7.0
	06/21/07	36.10		450.15	--	--	--	--	--	--	--	--
	06/22/07	--		--	2,400	150	12	130	23	23	--	<40
	09/25/07	44.99		441.26	10,000	270	17	230	31	15	--	43
	12/17/07	44.89		441.36	--	--	--	--	--	--	--	--
	12/18/07	--		--	4,500	51	4.7	58	32	10	<0.50	<10
	03/03/08	32.42		453.83	--	--	--	--	--	--	--	--
	03/04/08	--		--	3,600	70	7.2	70	120	6.3	--	<50
	06/09/08	37.39		448.86	--	--	--	--	--	--	--	--
	06/10/08	--		--	<50	59	6.5	19	65	12	--	<10
	08/26/08	46.79		439.46	--	--	--	--	--	--	--	--
	08/27/08	--		--	360	5.9	<0.50	0.56	<1.0	0.74	--	<10
	12/08/08	49.12		437.13	--	--	--	--	--	--	--	--
	12/10/08	--		--	4,800	37	11	26	310	14	--	<100
	03/26/09	38.90		447.35	2,000	3.6	<0.50	<0.50	3.8	0.84	--	<10
	02/18/11	33.40		452.85	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--
	09/27/11	33.83		452.42	100	1.0	<0.50	0.66	<1.0	<0.50	--	<10
	01/25/12	39.57		446.68	210	5.5	<0.50	<0.50	<0.50	<0.50	--	<10
	09/20/12	41.40		444.85	55	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	03/18/13	32.34		453.91	90	1.4	<0.50	1.3	<0.50	<0.50	--	<10
	02/13/14	35.62		450.63	52	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	06/04/14	41.53		444.72	"Not Scheduled for Sampling"							

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	
				GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)						
MW-3	03/21/07	28.09	486.39	458.30	--	--	--	--	--	--	--	
	03/22/07	--	--	--	130	2.5	<0.50	0.98	<0.50	16	--	<5.0
	06/21/07	35.30	--	451.09	--	--	--	--	--	--	--	
	06/22/07	--	--	--	180	6.4	<0.50	<0.50	<0.50	46	--	<20
	09/24/07	43.72	--	442.67	--	--	--	--	--	--	--	
	09/25/07	--	--	--	6,500	29	2.0	76	42	8.6	--	33
	12/17/07	43.87	--	442.52	--	--	--	--	--	--	--	
	12/18/07	--	--	--	7,200	93	6.8	70	73	24	<0.50	<10
	03/03/08	31.59	--	454.80	--	--	--	--	--	--	--	
	03/04/08	--	--	--	1,400	1.1	<0.50	6.6	6.2	6.2	--	<10
	06/09/08	36.62	--	449.77	--	--	--	--	--	--	--	
	06/10/08	--	--	--	<50	1.4	<0.50	0.60	<1.0	2.2	--	<10
	08/26/08	45.72	--	440.67	--	--	--	--	--	--	--	
	08/27/08	--	--	--	2,600	160	9.8	56	30	100	--	<10
	12/08/08	48.22	--	438.17	--	--	--	--	--	--	--	
	12/10/08	--	--	--	3,200	440	20	79	30	380	--	<100
	03/26/09	37.92	--	448.47	830	34	1.6	<0.50	3.5	42	--	<10
	02/18/11	32.26	--	454.13	120	1.2	<0.50	<0.50	<1.0	4.1	--	--
	09/27/11	32.79	--	453.60	490	2.0	<0.50	1.4	<1.0	19.0	--	<10
	01/25/12	38.66	--	447.73	600	19	<0.50	2.3	0.82	8.7	--	<10
09/20/12	40.35	--	446.04	720	28	0.61	2.9	0.65	41	--	<10	
03/18/13	31.50	--	454.89	140	4.2	<0.50	0.75	<0.50	18	--	<10	
02/13/14	34.78	--	451.61	470	9.1	<0.50	4.1	<0.50	15	--	<10	
06/04/14	40.70	--	445.69	"Not Scheduled for Sampling"								

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
				GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-4	03/21/07	28.67	487.43	458.76	--	--	--	--	--	--	--
	03/27/07	--		--	<50	<0.50	<0.50	<0.50	<0.50	--	<5.0
	06/21/07	32.20		455.23	--	--	--	--	--	--	--
	06/22/07	--		--	<50	<0.50	<0.50	<0.50	1.1	--	<20
	09/24/07	44.57		442.86	--	--	--	--	--	--	--
	09/25/07	--		--	140	<0.50	<0.50	<0.50	<0.50	--	<10
	12/17/07	44.67		442.76	--	--	--	--	--	--	--
	12/18/07	--		--	350	0.53	<0.50	0.72	<1.0	<0.50	<10
	03/03/08	32.20		455.23	--	--	--	--	--	--	--
	03/04/08	--		--	93	<0.50	<0.50	<0.50	<1.0	<0.50	<10
	06/09/08	37.28		450.15	--	--	--	--	--	--	--
	06/10/08	--		--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10
	08/26/08	46.63		440.80	--	--	--	--	--	--	--
	08/27/08	--		--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10
	12/08/08	49.23		438.20	--	--	--	--	--	--	--
	12/09/08	--		--	340	3.30	1.2	<0.50	2.8	<0.50	<10
	03/26/09	38.83		448.60	290	0.94	<0.50	<0.50	<1.0	<0.50	<10
	02/18/11	29.98		457.45	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--
	09/27/11	33.61		453.82	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<10
	01/25/12	39.42		448.01	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
	09/20/12	41.16		446.27	63	<0.50	<0.50	<0.50	<0.50	<0.50	<10
	03/18/13	32.13		455.30	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<10
	02/13/14	35.50		451.93	56	<0.50	<0.50	<0.50	<0.50	<0.50	<10
	06/04/14	41.47		445.96	"Not Scheduled for Sampling"						

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater				Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
				Elevation (ft msl)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
MW-5	03/21/07	28.47	484.33	455.86	--	--	--	--	--	--	--	--
	03/27/07	--		--	4,000	140	4.2	300	64	23	--	<5.0
	06/21/07	35.30		449.03	--	--	--	--	--	--	--	--
	06/22/07	--		--	4,200	180	5.5	200	18	29	--	<20
	09/24/07	38.72		445.61	--	--	--	--	--	--	--	--
	09/25/07	--		--	6,000	420	27	560	110	56	--	98
	12/17/07	38.71		445.62	--	--	--	--	--	--	--	--
	03/03/08	32.10		452.23	--	--	--	--	--	--	--	--
	03/04/08	--		--	12,000	550	48	1,000	260	78	--	<100
	06/09/08	37.02		447.31	--	--	--	--	--	--	--	--
	06/11/08	--		--	<50	720	33	1,200	97	77	--	<10
	08/26/08	--		--	--	--	--	--	--	--	--	--
	12/08/08	--		--	--	--	--	--	--	--	--	--
	03/26/09	--		--	--	--	--	--	--	--	--	--
	02/18/11	32.79		451.54	4,500	230	<10	140	<20	21	--	--
	09/27/11	33.62		450.71	1,800	34	1.9	8.5	2.2	<0.50	--	<10
	01/25/12	38.62		445.71	--	--	--	--	--	--	--	--
	09/20/12	39.00		445.33	--	--	--	--	--	--	--	--
03/19/13	32.03		452.30	6,800	57	4.6	47	8.1	21	--	<50[1]	
02/13/14	35.21		449.12	1,800	23	1.8	8.9	1.4	2.8	--	<10	
06/04/14	38.80		445.53	"Not Scheduled for Sampling"								
MW-6	09/27/11	--	486.29	--	--	--	--	--	--	--	--	--
	01/25/12	--		--				Well Damaged				
	12/26/12							Well Destroyed				

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
MW-7	03/21/07	28.86	480.54	451.68	--	--	--	--	--	--	--	--
	03/23/07	--		--	560	4.3	<0.50	0.83	<0.50	22	--	<5.0
	06/21/07	35.70		444.84	--	--	--	--	--	--	--	--
	06/22/07	--		--	4,200	9.1	<0.50	18	4.1	9.9	--	<20
	09/24/07	44.07		436.47	--	--	--	--	--	--	--	--
	09/25/07	--		--	590	0.56	<0.50	0.52	<0.50	14	--	<10
	12/17/07	44.13		436.41	--	--	--	--	--	--	--	--
	12/18/07	--		--	1,800	2.2	<0.50	1.9	0.58	16	<0.50	<10
	03/03/08	31.89		448.65	--	--	--	--	--	--	--	--
	03/04/08	--		--	3,700	85	6.7	180	25	49	--	<10
	06/09/08	37.21		443.33	--	--	--	--	--	--	--	--
	06/10/08	--		--	<50	76	6.5	95	13	53	--	<10
	08/26/08	46.11		434.43	--	--	--	--	--	--	--	--
	08/27/08	--		--	650	11	0.56	4.0	<1.0	15	--	<10
	12/08/08	48.02		432.52	--	--	--	--	--	--	--	--
	12/09/08	--		--	1,600	7.2	<0.50	<0.50	<1.0	9.6	--	<10
	03/26/09	37.77		442.77	850	49	2.0	22	2.1	37	--	<10
	02/18/11	32.51		448.03	<50	<0.50	<0.50	<0.50	<1.0	0.98	--	--
	09/27/11	33.59		446.95	690	13	<0.50	<0.50	<1.0	23	--	<10
	01/26/12	39.07		441.47	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	09/20/12	41.04		439.50	53	<0.50	<0.50	<0.50	<0.50	1.1	--	<10
	03/18/13	31.88		448.66	410	7.3	<0.50	0.56	<0.50	8.1	--	<10
	02/13/14	35.05		445.49	840	0.75	<0.50	<0.50	<0.50	0.80	--	<10
	06/04/14	40.94		439.60	"Not Scheduled for Sampling"							

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B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)		
MW-8	03/21/07	33.76	475.62	441.86	--	--	--	--	--	--	--	--		
	06/21/07	42.10		433.52	--	--	--	--	--	--	--	--	--	
	09/24/07	51.04		424.58	--	--	--	--	--	--	--	--	--	
	12/17/07	50.18		425.44	--	--	--	--	--	--	--	--	--	
	12/18/07	--		--	54	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<10	--	
	03/03/08	37.84		437.78	--	--	--	--	--	--	--	--	--	
	06/09/08	43.50		432.12	--	--	--	--	--	--	--	--	--	
	08/26/08	44.53		431.09	--	--	--	--	--	--	--	--	--	
	12/08/08	--		--	--	--	--	--	--	--	--	--	--	--
	02/18/11	37.59		438.03	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--	--	
	09/27/11	39.76		435.86	--	--	--	--	--	--	--	--	--	
	01/26/12	44.27		431.35	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10	
	09/20/12	46.94		428.68	--	--	--	--	--	--	--	--	--	
	03/18/13	37.04		438.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10	
	02/13/14	40.37		435.25	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10	
	06/04/14	46.10		429.52	"Not Scheduled for Sampling"									

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B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	Analytical Summary							
					GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
MW-9	03/21/07	30.76	479.48	448.72	--	--	--	--	--	--	--	--
	06/21/07	38.10		441.38	--	--	--	--	--	--	--	--
	09/24/07	43.30		436.18	--	--	--	--	--	--	--	--
	12/17/07	43.34		436.14	--	--	--	--	--	--	--	--
	03/03/08	34.35		445.13	--	--	--	--	--	--	--	--
	06/09/08	39.64		439.84	--	--	--	--	--	--	--	--
	08/26/08	43.33		436.15	--	--	--	--	--	--	--	--
	12/08/08	--		--	--	--	--	--	--	--	--	--
	01/25/12	41.12		438.36	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	09/20/12	43.23		436.25	--	--	--	--	--	--	--	--
	03/18/13	33.90		445.58	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	02/13/14	37.02		442.46	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	06/04/14	43.02		436.46	"Not Scheduled for Sampling"							

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	Analytical Data							
					GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
MW-10	03/21/07	34.01	473.84	439.83	--	--	--	--	--	--	--	--
	06/21/07	42.30		431.54	--	--	--	--	--	--	--	--
	09/24/07	51.43		422.41	--	--	--	--	--	--	--	--
	12/17/07	50.37		423.47	--	--	--	--	--	--	--	--
	12/18/07	--		--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<10
	03/03/08	38.22		435.62	--	--	--	--	--	--	--	--
	06/09/08	44.28		429.56	--	--	--	--	--	--	--	--
	08/26/08	44.88		428.96	--	--	--	--	--	--	--	--
	12/08/08	--		--	--	--	--	--	--	--	--	--
	02/18/11	37.88		435.96	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--
	09/27/11	40.12		433.72	--	--	--	--	--	--	--	--
	01/26/12	44.65		429.19	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	09/20/12	47.27		426.57	--	--	--	--	--	--	--	--
	03/18/13	37.40		436.44	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	02/13/14	40.51		433.33	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	06/04/14	46.42		427.42	"Not Scheduled for Sampling"							

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	Analytical Summary							
					GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
MW-11	03/21/07	30.49	467.32	436.83	--	--	--	--	--	--	--	--
	06/21/07	38.30		429.02	--	--	--	--	--	--	--	--
	09/24/07	43.22		424.10	--	--	--	--	--	--	--	--
	12/17/07	43.18		424.14	--	--	--	--	--	--	--	--
	03/03/08	34.72		432.60	--	--	--	--	--	--	--	--
	06/09/08	40.42		426.90	--	--	--	--	--	--	--	--
	08/26/08	43.57		423.75	--	--	--	--	--	--	--	--
	12/08/08	50.18		417.14	--	--	--	--	--	--	--	--
	09/27/11	36.35		430.97	--	--	--	--	--	--	--	--
	01/26/12	40.72		426.60	<50	9.0	<0.50	<0.50	<0.50	<0.50	--	<10
	09/20/12	43.08		424.24	--	--	--	--	--	--	--	--
	03/18/13	33.41		433.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	02/13/14	36.45		430.87	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	06/04/14	42.15		425.17	"Not Scheduled for Sampling"							

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	Analytical Data (µg/L)							
					GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	TAME	TBA
MW-12	03/21/07	24.77	460.73	435.96	--	--	--	--	--	--	--	--
	06/21/07	32.90		427.83	--	--	--	--	--	--	--	--
	09/24/07	42.20		418.53	--	--	--	--	--	--	--	--
	12/17/07	40.93		419.80	--	--	--	--	--	--	--	--
	12/18/07	--		--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<10
	03/03/08	28.99		431.74	--	--	--	--	--	--	--	--
	06/09/08	35.10		425.63	--	--	--	--	--	--	--	--
	08/26/08	42.55		418.18	--	--	--	--	--	--	--	--
	12/08/08	--		--	--	--	--	--	--	--	--	--
	09/27/11	30.80		429.93	--	--	--	--	--	--	--	--
	01/26/12	35.25		425.48	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	09/20/12	38.06		422.67	--	--	--	--	--	--	--	--
	03/18/13	27.98		432.75	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	02/13/14	30.82		429.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	06/04/14	36.81		423.92	"Not Scheduled for Sampling"							

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)				Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
				GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)						
MW-13	03/21/07	30.37	477.18	446.81	--	--	--	--	--	--	--	--
	03/27/07	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	4.6	--	<5.0
	06/21/07	37.60	--	439.58	--	--	--	--	--	--	--	--
	06/22/07	--	--	--	180	0.52	<0.50	<0.50	<0.50	23	--	<200
	09/24/07	45.60	--	431.58	--	--	--	--	--	--	--	--
	09/25/07	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	6.9	--	<10
	12/17/07	45.13	--	432.05	--	--	--	--	--	--	--	--
	12/18/07	--	--	--	73	<0.50	<0.50	<0.50	<1.0	2.8	<0.50	<10
	03/03/08	33.82	--	443.36	--	--	--	--	--	--	--	--
	03/04/08	--	--	--	740	20	0.76	5.8	2.0	35	--	<10
	06/09/08	39.02	--	438.16	--	--	--	--	--	--	--	--
	06/10/08	--	--	--	<50	27	0.5	1.9	<1.0	39	--	<10
	08/26/08	47.52	--	429.66	--	--	--	--	--	--	--	--
	08/27/08	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	2.9	--	<10
	12/08/08	49.02	--	428.16	--	--	--	--	--	--	--	--
	12/10/08	--	--	--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	<10
	03/26/09	39.59	--	437.59	350	15	0.52	<0.50	<1.0	19	--	<10
	02/18/11	34.27	--	442.91	<50	1.1	<0.50	<0.50	<1.0	8.4	--	--
	09/27/11	35.86	--	441.32	74	<0.50	<0.50	<0.50	<1.0	7.2	--	<10
	01/25/12	40.65	--	436.53	170	<0.50	<0.50	<0.50	<0.50	13	--	<10
	09/20/12	42.76	--	434.42	<50	<0.50	<0.50	<0.50	<0.50	8.6	--	<10
	03/18/13	33.82	--	443.36	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	02/13/14	36.90	--	440.28	69	<0.50	<0.50	<0.50	<0.50	4.5	--	<10
	06/04/14	42.41	--	434.77	"Not Scheduled for Sampling"							

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater			Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)	
				Elevation (ft msl)	GRO (µg/L)	Benzene (µg/L)						Toluene (µg/L)
CMT-1 Z1	03/21/07	35.26	471.96	436.70	--	--	--	--	--	--	--	
	03/22/07	--		--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	<5.0	
	06/21/07	43.40		428.56	--	--	--	--	--	--	--	
	09/24/07	--		--	--	--	--	--	--	--	--	
	12/17/07	--		--	--	--	--	--	--	--	--	
	03/03/08	39.80		432.16	--	--	--	--	--	--	--	
	03/05/08	--		--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<10
	06/09/08	--		--	--	--	--	--	--	--	--	
	08/26/08	--		--	--	--	--	--	--	--	--	
	12/08/08	--		--	--	--	--	--	--	--	--	
	02/18/11	38.38		433.58	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	--
	09/27/11	41.31		430.65	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	<10
	01/25/12	45.30		426.66	--	--	--	--	--	--	--	
	09/20/12	45.30		426.66	--	--	--	--	--	--	--	
	03/18/13	38.45		433.51	--	--	--	--	--	--	--	
02/13/14	41.25		430.71	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10	

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater				Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
				Elevation (ft msl)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)					
CMT-2 Z1	03/21/07	34.15	472.53	438.38	--	--	--	--	--	--	--	--
	06/21/07	42.90		429.63	--	--	--	--	--	--	--	--
	09/24/07	--		--	--	--	--	--	--	--	--	--
	12/17/07	--		--	--	--	--	--	--	--	--	--
	03/03/08	38.63		433.90	--	--	--	--	--	--	--	--
	06/09/08	44.58		427.95	--	--	--	--	--	--	--	--
	08/26/08	--		--	--	--	--	--	--	--	--	--
	12/08/08	--		--	--	--	--	--	--	--	--	--
	02/18/11	37.62		434.91	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	09/27/11	40.59		431.94	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	<10
	01/25/12	45.14		427.39	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	09/20/12	48.47		424.06	--	--	--	--	--	--	--	--
	03/18/13	37.19		435.34	--	--	--	--	--	--	--	--
	02/13/14	40.20		432.33	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	13
	06/04/14	46.75		425.78	"Not Scheduled for Sampling"							

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
CMT-3 Z1	03/21/07	34.40	476.28	441.88	--	--	--	--	--	--	--	--
	06/21/07	42.60		433.68	--	--	--	--	--	--	--	--
	09/24/07	--		--	--	--	--	--	--	--	--	--
	12/17/07	--		--	--	--	--	--	--	--	--	--
	03/03/08	38.45		437.83	--	--	--	--	--	--	--	--
	06/09/08	--		--	--	--	--	--	--	--	--	--
	08/26/08	--		--	--	--	--	--	--	--	--	--
	12/08/08	--		--	--	--	--	--	--	--	--	--
	02/18/11	38.48		437.80	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	--
	09/27/11	40.64		435.64	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	25.00
	01/25/12	43.20		433.08	--	--	--	--	--	--	--	--
	09/20/12	43.20		433.08	--	--	--	--	--	--	--	--
	03/18/13	37.94		438.34	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	02/13/14	43.15		433.13	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	Analytical Data							
					GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
CMT-4 Z2	03/21/07	28.22	485.82	457.60	--	--	--	--	--	--	--	--
	03/22/07	--		--	5,800	1,800	130	190	180	1,700	--	140
	06/21/07	35.20		450.62	--	--	--	--	--	--	--	--
	09/24/07	--		--	--	--	--	--	--	--	--	--
	12/17/07	--		--	--	--	--	--	--	--	--	--
	03/03/08	32.12		453.70	--	--	--	--	--	--	--	--
	03/05/08	--		--	8,200	1,600	160	290	690	900	<12	<250
	06/09/08	36.71		449.11	--	--	--	--	--	--	--	--
	08/26/08	--		--	--	--	--	--	--	--	--	--
	12/08/08	--		--	--	--	--	--	--	--	--	--
	03/27/09	--		--	--	--	--	--	--	--	--	--
	02/18/11	37.70		448.12	--	--	--	--	--	--	--	--
	09/27/11	33.22		452.60	1,400	210	10	66	140	150	<2.5	<50
	01/25/12	37.40		448.42	--	--	--	--	--	--	--	--
	09/20/12	37.40		448.42	--	--	--	--	--	--	--	--
	03/18/13	32.05		453.77	--	--	--	--	--	--	--	--
02/13/14	35.20		450.62	560	17	0.59	23	57	25	--	52	

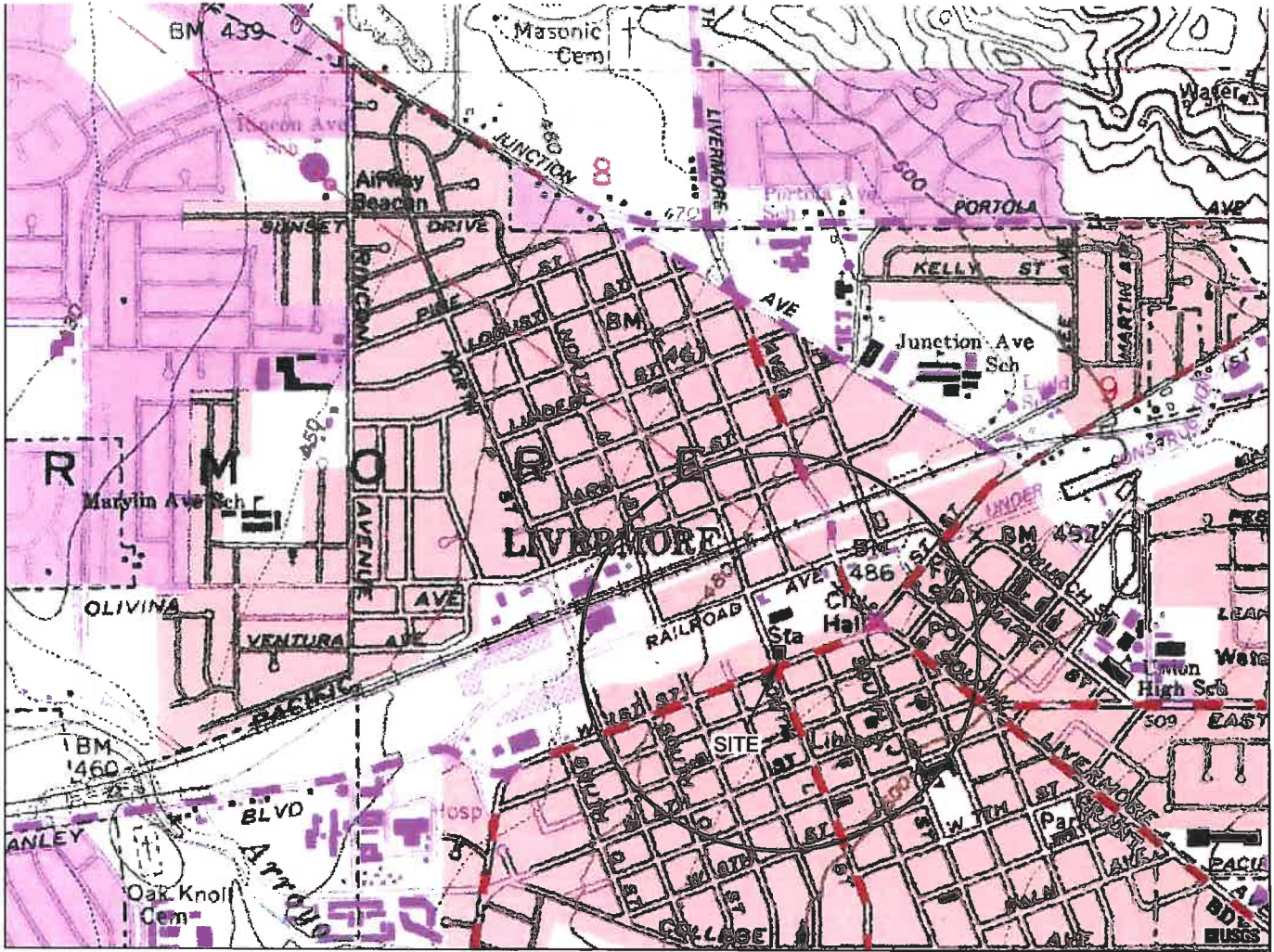
TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
D-2	03/21/07	26.50	460.01	433.51	--	--	--	--	--	--	--	--
	03/22/07	--		--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<5.0
	06/21/07	34.40		425.61	--	--	--	--	--	--	--	--
	06/22/07	--		--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<20
	09/24/07	43.61		416.40	--	--	--	--	--	--	--	--
	09/25/07	--		--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	12/17/07	39.07		420.94	--	--	--	--	--	--	--	--
	12/18/07	--		--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	<0.50	<10
	03/03/08	28.07		431.94	--	--	--	--	--	--	--	--
	03/04/08	--		--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	<10
	06/09/08	36.42		423.59	--	--	--	--	--	--	--	--
	06/10/08	--		--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	<10
	08/26/08	45.39		414.62	--	--	--	--	--	--	--	--
	08/28/08	--		--	230	<0.50	<0.50	<0.50	<1.0	<0.50	--	<10
	12/08/08	43.07		416.94	--	--	--	--	--	--	--	--
	12/09/08	--		--	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	<10
	03/26/09	34.33		425.68	<50	<0.50	<0.50	<0.50	<1.0	<0.50	--	<10
	09/27/11	31.46		428.55	--	--	--	--	--	--	--	--
	01/26/12	41.38		418.63	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	09/20/12	43.51		416.50	--	--	--	--	--	--	--	--
	03/18/13	33.99		426.02	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	02/13/14	37.45		422.56	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
	06/04/14	44.08		415.93	"Not Scheduled for Sampling"							

TABLE 1
HISTORICAL GROUNDWATER ELEVATION AND ANALYTICAL SUMMARY
B&C Gas Mini Mart
2008 First Street, Livermore

Well Number	Date Collected	Depth to Water (feet)	Well Elevation (ft msl)	Groundwater Elevation (ft msl)	Analytical Summary							
					GRO (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Total Xylenes (µg/L)	MTBE (µg/L)	TAME (µg/L)	TBA (µg/L)
SVE-3A	03/18/13	32.26	--	--	170	13	<0.50	<0.50	<0.50	2.1	--	<10
	02/13/14	35.50	--	--	140	6.0	<0.50	<0.50	0.53	2.3	--	<10
SVE-3B	03/18/13	32.32	--	--	650	5.8	<0.50	18	<0.50	<0.50	--	<10
	02/13/14	35.65	--	--	69	2.1	<0.50	<0.50	<0.50	<0.50	--	<10
SVE-4A	03/19/13	31.72	--	--	210	3.2	<0.50	<0.50	0.66	0.91	--	<10
	02/13/14	34.90	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10
SVE-4B	03/19/13	31.39	--	--	720	0.94	<0.50	<0.50	<0.50	<0.50	--	<10
	02/13/14	34.70	--	--	<50	<0.50	<0.50	<0.50	<0.50	<0.50	--	<10

<p><u>Notes:</u> GRO = Gasoline Range Organics C4-C13 MTBE = Methyl tert-butyl ether TAME=Tert amyl-methyl ether TBA=Tert-butyl alcohol msl = Mean sea level µg/L = Micrograms per liter -- = Not analyzed/Not measured l = Reporting limits were increased due to high concentrations of target analytes.</p>	<p><u>Analysis:</u> GRO analyzed using EPA Method SW8015B/ SW8260B, all remaining analytes analyzed using EPA Method SW8260B.</p> <p style="text-align: right;">All data taken from Golder Associates, 2011 Second Semi-Annual Groundwater Monitoring Report, dated November 2, 2011</p>
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GENERAL NOTES:
 BASE MAP FROM U.S.G.S.
 LIVERMORE, CA.
 7.5 MINUTE TOPOGRAPHIC
 PHOTOREVISED 1999



APPROXIMATE SCALE



QUADRANGLE LOCATION



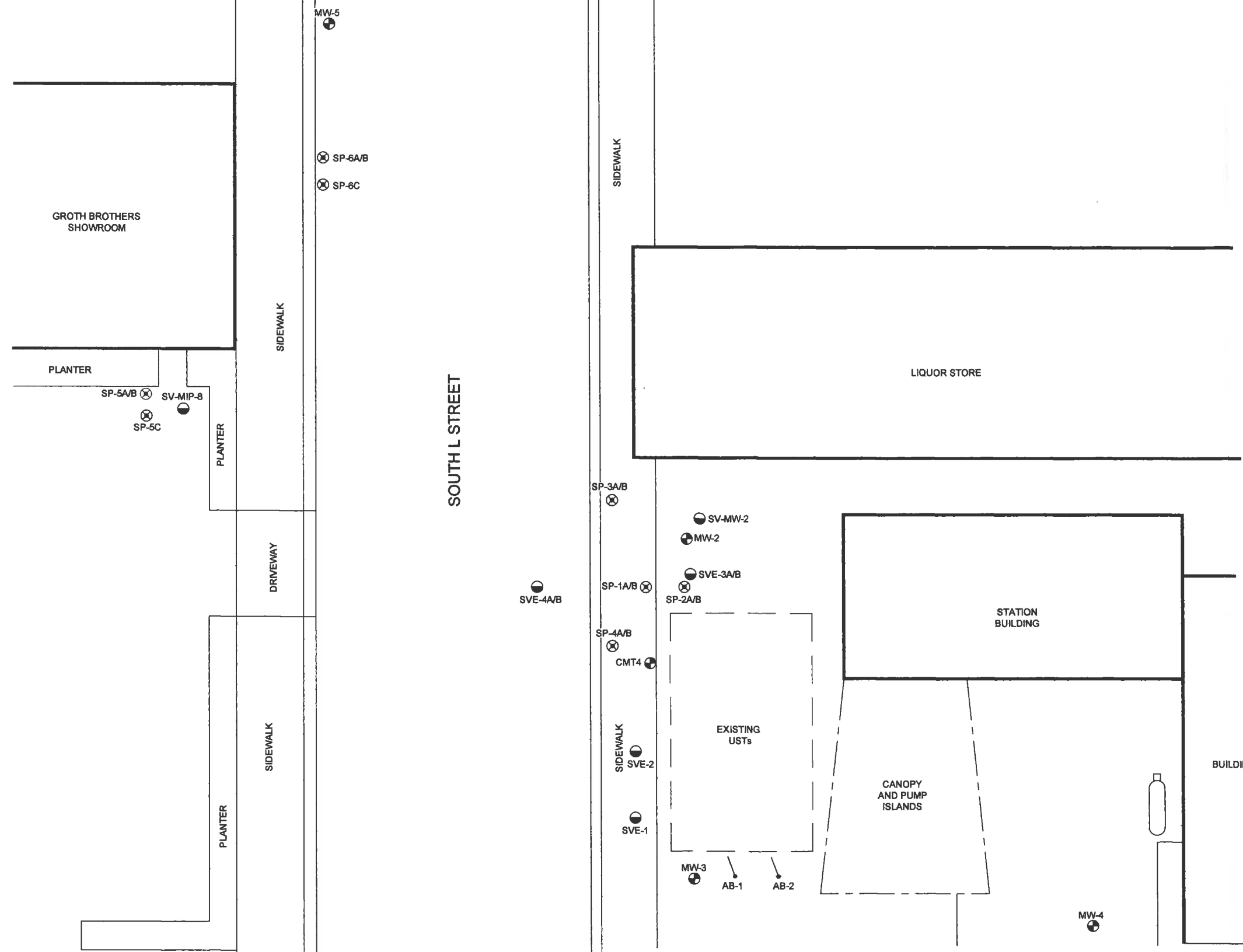
B & C GAS MINI MART
 2008 FIRST STREET
 LIVERMORE, CALIFORNIA

SITE LOCATION MAP

FIGURE
 1
 PROJECT NO.
 2146-2008-01



- LEGEND:
- MW-1 MONITORING WELL LOCATION
 - SV-MW-2 SOIL VAPOR EXTRACTION WELL
 - ⊗ SP-1A/B OZONE SPARGE WELL
 - AB-1 ANGLE BORING LOCATION



NOTE: LOCATIONS OF FEATURES DEPICTED ON THIS FIGURE ARE APPROXIMATE.

STRATUS
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PATH NAME: B&C Minimart
 DRAFTER INITIALS: JMP
 DATE LAST REVISED: June 10, 2014
 FILENAME: B&C Siteplan



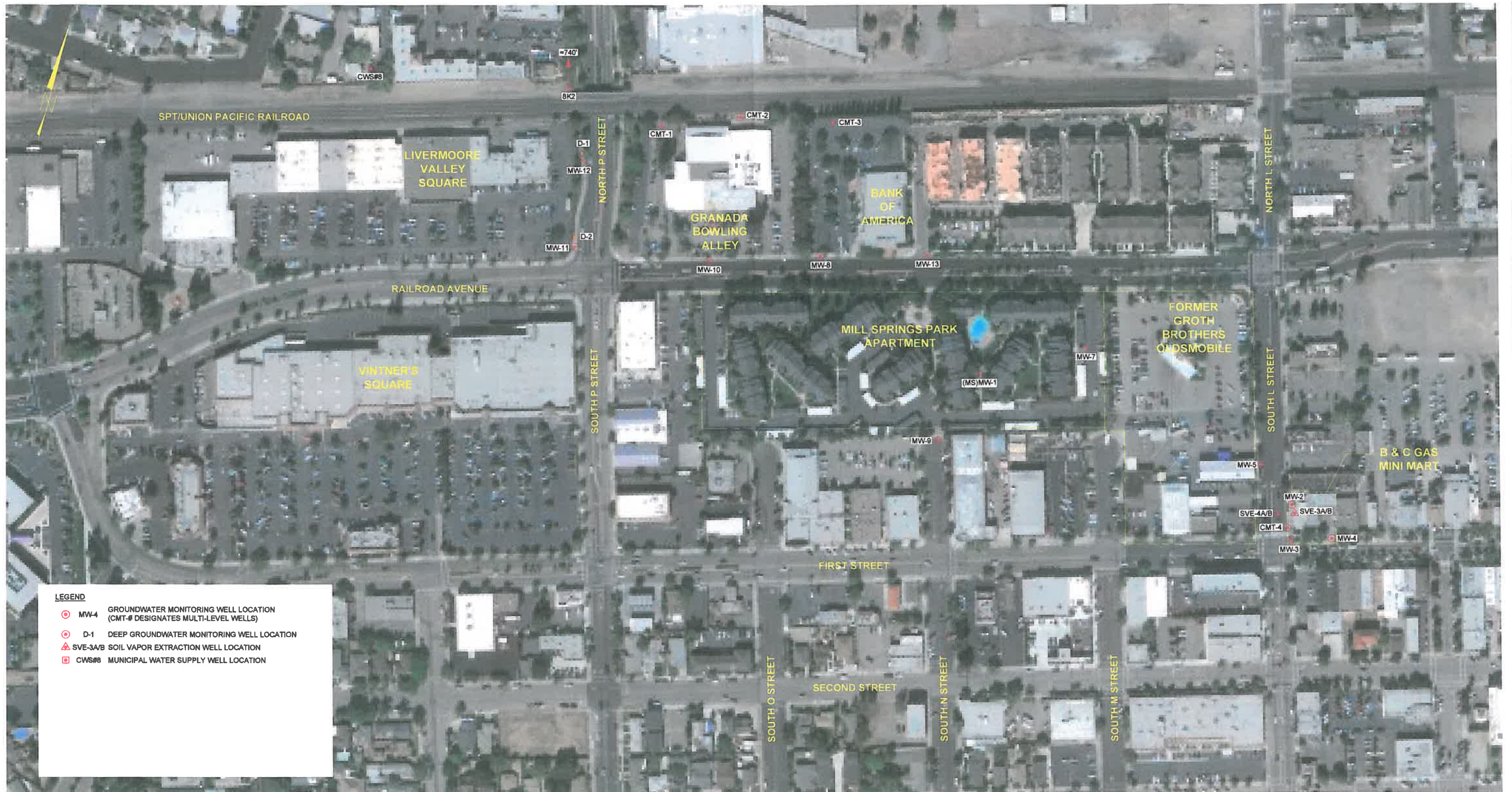
B & C GAS MINI MART
 2008 1st STREET
 LIVERMORE, CALIFORNIA

SITE PLAN

FIGURE

2

PROJECT NO.
2146-2008-01

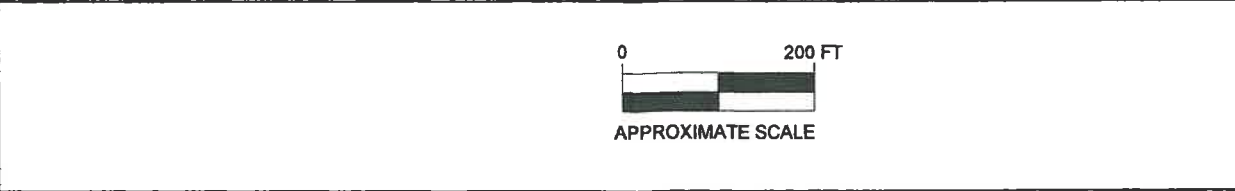


LEGEND

- MW-# GROUNDWATER MONITORING WELL LOCATION (CMT-# DESIGNATES MULTI-LEVEL WELLS)
- D-1 DEEP GROUNDWATER MONITORING WELL LOCATION
- △ SVE-3A/B SOIL VAPOR EXTRACTION WELL LOCATION
- CWS#8 MUNICIPAL WATER SUPPLY WELL LOCATION



PATH NAME: B&C Minimart
 DRAFTER INITIALS: JMP
 DATE LAST REVISED: June 10, 2014
 FILENAME: B&C Site Vicinity Map



B & C GAS MINI MART
 2008 1st STREET
 LIVERMORE, CALIFORNIA

SITE VICINITY MAP

FIGURE
3
 PROJECT NO.
 2146-2008-01



LEGEND

- MW-# GROUNDWATER MONITORING WELL LOCATION (CMT-# DESIGNATES MULTI-LEVEL WELLS)
- D-1 DEEP GROUNDWATER MONITORING WELL LOCATION
- △ SVE-3A/B SOIL VAPOR EXTRACTION WELL LOCATION
- CWS#8 MUNICIPAL WATER SUPPLY WELL LOCATION
- (444.72) GROUND WATER ELEVATION IN FEET RELATIVE TO MEAN SEA LEVEL
- 440— WATER TABLE CONTOUR IN FEET RELATIVE TO MEAN SEA LEVEL
- ➔ INFERRED DIRECTION OF GROUND WATER FLOW
- WELLS MEASURED 6/04/14
- (NM) = NOT MEASURED
- * NOT USED FOR CONTOURING

STRATUS
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PATH NAME: B&C Minimart/Quarterly Figures
 DRAFTER INITIALS: JMP
 DATE LAST REVISED: June 10, 2014
 FILENAME: B&C Quarterly Figures2



B & C GAS MINI MART
 2008 1st STREET
 LIVERMORE, CALIFORNIA
 GROUNDWATER ELEVATION CONTOUR MAP
 JUNE 4, 2014

FIGURE
4
 PROJECT NO.
 2146-2008-01