

ALLIED ENGINEERING & PRODUCTION CORP.

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RECEIVED

By Alameda County Environmental Health at 11:18 am, Jan 07, 2013

December 12, 2012

In reference to Report of December 2012 Sampling, 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.

Kassandra Miller, Vice President

Allied Engineering & Production Corporation

geotechnical and environmental consulting services

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December 11, 2012

Ms. Karel Detterman Alameda County Environmental Health Services 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

RE:

Report of December 2012 Sampling

Allied Engineering Co., 2421 Blanding Avenue, Alameda, CA

Fuel Leak Case No. RO0002601

Dear Ms. Detterman:

This report documents the recent sampling of three monitoring wells at the above-referenced site, the second sampling event. The wells were installed in April, 2010, in accordance with Geo-Logic's work plan dated December 22, 2008, as requested in a letter from Alameda County Environmental Health (ACEH) dated November 13, 2008.

SITE DESCRIPTION

The subject site is located on the northeastern side of Blanding Avenue, southeast of Park Street, on the eastern perimeter of Alameda, Alameda County, California. The site is located adjacent to the tidal canal of Alameda Harbor. At the site, a 2,000-gallon gasoline tank, dispenser and the related product piping were removed. A Site Plan (Figure 1) showing the location of these features is attached to this report.

PREVIOUS FIELD ACTIVITIES

On January 7, 2004, one 2,000-gasoline tank was removed. Mr. Bill Oyas, Fire Inspector with the City of Alameda, and Mr. Rob Weston of Alameda County Environmental Health (ACEH) witnessed the tank removal. Mr. Weston also directed the soil and groundwater sampling.

The tank was constructed of single wall steel, and appeared to have been covered with a tar paper that was largely dissolved. The tank, which measured approximately six feet in diameter and ten feet in length, appeared to be in good condition and no holes were observed. The fill port for the tank was located on the eastern end of the tank, and had consisted of a "T" fitting that was plumbed to a remote fill location and a fill port directly over the tank. The tank was transported under manifest to ECI in Richmond, California.

Odors of hydrocarbons were detected in the excavated soils and sidewalls, and in the groundwater. Groundwater collected in the tank pit excavation at approximately nine feet below grade.

The tank pit backfill material appeared to be a silty fine-grained sand which was stained dark gray to black. The native material in the sidewalls, beneath about 1.5 feet of fill material, appeared to be clayey silt and silty clay, which was dark brown to about five feet below grade, where the color changed to olive green.

Following the tank removal, a "grab" groundwater sample was collected from the tank pit excavation. The sample was collected using a disposable teflon bailer. Some oily product appeared to have collected on the surface of the water, which may have been the result of the dissolving of the tar paper that was originally on the tank. The groundwater sample had a moderate odor of weathered fuel.

One soil sample, designated as TP-W (7.25'), was collected from the sidewall of the western end of the tank pit excavation at the depth indicated. The soil at this location consisted of dark gray to black silty sand backfill with a moderate odor of weathered fuel. A second sample, designated as TP-N (8'), was collected from the northern sidewall of the excavation. The soil at this location consisted of green clayey silt/silty clay, which also had a moderate odor of weathered fuel. The locations of the sample points are shown on Figure 1.

One soil sample, designated as P1 (3.5'), was collected at a 90 degree elbow location in the product piping trench, approximately 1.5 foot below the excavation bottom. No odors of hydrocarbons were observed at this location. Another soil sample, designated as Disp. (3.5'), was collected from beneath the former dispenser location. A moderate odor of weathered fuel was observed on this sample. The materials at these locations consisted of native dark gray clayey silt/silty clay. The locations of these sample points are shown on Figure 1.

The soil and groundwater samples were analyzed for TPH as gasoline, benzene, toluene, ethylbenzene, and xylenes (BTEX) and methyl tertiary butyl ether (MTBE) by EPA method 8020, and for total lead. All of the soil and groundwater samples were also analyzed for the eight fuel oxygenates by EPA Method 8260. The groundwater sample was also analyzed for organic lead.

Elevated concentrations of TPH as gasoline and BTEX were detected in the soil and groundwater samples. MTBE and the eight fuel oxygenates were non-detectable. 8.4 parts per billion of 1,2-dichloroethane was detected in the grab groundwater sample. Total Lead was detected in the samples at what appears to be naturally-occurring background concentrations. Organic Lead was non-detectable in the grab ground water sample.

On March 8, 2007, one four-part composite sample was collected from approximately 100 cubic yards of soil that had remained on site since the tank removal. The soil was underlain by plastic tarps. The stockpile sample was analyzed for TPH as gasoline, BTEX, and MTBE by EPA method 8020, and for total lead and STLC lead. The soil was profiled for disposal and was later removed from the site and transported to the Altamont Landfill in Livermore, California.

Based on letters from the ACEH dated September 22, 2006 and March 28, 2005, Geo-Logic prepared a work plan dated March 16, 2007 for a soil and groundwater investigation. The work plan was reviewed by ACEH and revisions were requested in a letter dated April 10, 2007. The revisions to the work plan were prepared and submitted on April 23, 2007, and were conditionally approved by the ACEH in a letter dated May 24, 2007.

On June 27, 2007, six of the eight proposed borings were completed to groundwater, and other shallow borings were completed. Borings B1, B5, B6 and B8 were completed at the proposed locations. Due to access limitations (the presence of concrete near the bank and trees overhead), boring B2 was not completed at the proposed location and B3 was relocated midway between the originally proposed locations of B2 and B3. Boring B4 could not be completed with the drilling rig due to the presence of trees. Two attempts were made using a hand auger. The first attempt, designated as B4A, encountered sheet metal at about one foot, proximal to a sheet metal building. The second attempt, designated as B4B, encountered metal shavings at about one foot below grade, and the hole was terminated due to refusal.

Boring 7 was attempted three times at or near the original location with the drill rig but encountered concrete about one foot below grade. As it was observed that there was an active storm drain that outletted to the estuary underlying this area, the boring was relocated and completed to the northwest. This location was desirable to provide delineation both of the hydrocarbons in water, and possible metal debris near the bank.

The borings were completed using a geoprobe rig provided by Vironex of Pacheco, California, a state-licensed driller. The locations of the borings are shown on Figure 1. The borings were continuously cored and the subsurface soils were examined for evidence of contamination. A photo-ionization detector (PID) was also used to screen the soil for contamination. Samples were selected from about five feet below grade, at the capillary fringe (about 7.5 feet below grade), and at about 12.5 feet and 15 feet below grade. The 12.5 foot samples generally corresponded to the last part of a layer of low permeability soils that appeared to contain hydrocarbons in many of the holes. The sample at the total depth (about 15 feet below grade) was generally in higher permeability water-bearing sandy soils and no odor of hydrocarbons was apparent.

All of the soil and groundwater samples were analyzed for TPH as gasoline, BTEX, and MTBE by EPA Methods 8015 and 8020. The ground water samples were analyzed for the fuel oxygenates and lead scavengers by EPA Method 8260. Selected soil samples from B3, B7B and B7C from a depth of four to 4.5 feet below grade, and the groundwater samples from B3 and B7C, were analyzed for the CAM 17 metals. The soil from B7B and B7C at that interval had visible metal debris in it. Mr. Steven Plunkett of ACDEH witnessed most of the drilling and sampling.

The analytical results of the soil samples indicated predominantly non-detectable results for petroleum hydrocarbons, except at the capillary fringe (about 7.5 feet below grade). The samples from B3, which was about 1.5 foot higher in elevation than the tank pit borings, had an elevated TPH as gasoline concentration at 12.5 feet below grade and non-detectable results at 7.5 feet below grade. The sample from 4.5 feet below grade near the former dispenser location at B5 also had elevated concentrations of hydrocarbons.

The analytical results of the grab groundwater samples indicated dissolved concentrations of hydrocarbons in groundwater in all of the borings except B7C, which was non-detectable. The concentrations of benzene in groundwater attenuated to very low (2.4 ppb in B3) to non-detectable to the north and east. The concentrations were not defined below about 100 to 160 ppb to the west and south.

The analytical results for the CAM 17 metals in B3 at 4.5 feet below grade, which appeared to be native soil, did not indicate any metals above the ESLs. The sample from B7B at four feet below grade, which contained abundant metal debris, had concentrations of nine of the CAM 17 metals above the ESLs. This sample, which contained the highest concentration of chromium of the soil samples analyzed, was also analyzed for hexavalent chromium by method E218.6m, which indicated a concentration of hexavalent chromium of 500 ppm. Arsenic and chromium concentrations exceeded their respective ESLs in the soil sample from B7C at 4.5 feet below grade, which also appeared to be historical fill material similar to the sample from B7B.

The analytical results for the CAM 17 metals in groundwater indicated concentrations of 14 metals above their respective ESLs in B3, and eleven metals above their respective ESLs in B7C. Except for lead and molybdenum, the concentrations of metals in the groundwater sample from B7C are significantly lower than the concentrations in B3. The collection of the sample in B7C was difficult and the rods were retracted three times, making it possible that metal debris from shallower depth affected the water sample analyses.

This work is summarized in Geo-Logic's "Report of Soil and Groundwater Investigation" dated July 18, 2007.

On April 19, 2010, three monitoring wells, designated as MW1 through MW3 on the attached Figure 3, were installed at the site. Well MW1 was located in the vicinity of previous boring B1, on the northeast side of the former tank pit, within the warehouse. Well MW2 was located adjacent to previous boring B5, at the former dispenser location. Well MW3 was located adjacent to previous boring B3, near the top of the estuary bank. Due to the previous logging and sampling, soil samples were not collected from the borings for these wells, however, the drill cuttings were examined for lithology and evidence of contamination. Odors of hydrocarbons were encountered beginning at approximately 6 feet (capillary fringe) in MW1, and at approximately two feet in MW2, in the former dispenser area.

Well Construction: The well casings consisted of two-inch diameter schedule 40 PVC with flush threaded joints and 0.010 inch factory slots. Based on previous conditions encountered in exploratory borings, the wells were screened between approximately 5 and 20 feet below grade with 0.010 inch screen. #2/12 sand was used for the filter pack and was placed from approximately 4.5 to 20 feet below grade, starting approximately 1/2 foot above the perforated interval. A 0.5-foot thick bentonite seal was placed in the annular space on top of the sand pack. Neat cement grout was placed on top of the bentonite seal to the surface.

On May 4, 2010, samples were obtained from the three wells, and the wells were monitored and sampled. The groundwater samples were analyzed for TPH as gasoline, BTEX, and MTBE and the fuel oxygenates and lead scavengers by EPA Method 8260 B, and for the CAM 17 metals. The analytical results of the groundwater samples collected from the three monitoring wells indicated concentrations ranging from predominantly non-detectable in MW3 to up to 2,300 parts per billion (ppb) of TPH as gasoline and up to 210 ppb of benzene in MW2, at the former dispenser area. At MW3, the only detected analyte was MTBE, at a concentration of 1.6 ppb. Toluene and xylenes were also detected in MW2 at concentrations of 5.8 and 130 ppb, respectively. At MW1, adjacent to the former tank pit, TPH as gasoline, benzene, toluene, xylenes and t-Butyl Alcohol were detected at concentrations of 380, 22, 0.77, 1.2 and 2.4 ppb, respectively. The concentrations of TPH as gasoline (2,300 ppb), benzene (210 ppb), and xylenes (130 ppb) are in excess of their respective Environmental Screening Levels (Table F-1b).

For the CAM 17 metals, six metals (beryllium, chromium, mercury, selenium, silver, and thallium) were non-detectable. Of the other eleven metals, cadmium, cobalt, copper, lead and nickel were detected in excess of their respective ESLs. Nickel concentrations were particularly elevated (ranging up to 190 ppb in MW2, in excess of the ESL of 8.2 ppb).

The analytical data is summarized in Tables 2 and 3. The results of this work were summarized in Geo-Logic's "Report of Monitoring Well Installation and May 2010 Sampling", dated May 14, 2010.

On Nov. 5, 2010, samples were again obtained from the three wells, and the wells were monitored. That work is summarized in Geo-Logic's "Report of November 2010 Sampling" dated November 19, 2010.

On May 13, 2011, and December 5, 2011, samples were again obtained from the three wells, and the wells were monitored. Also, two samples were obtained from the inner harbor waters, which yielded entirely non-detectable results for metals. That work is summarized in Geo-Logic's "Report of May 2011 Sampling" dated May 24, 2011, and "Report of December 2011 Sampling", dated December 16, 2011.

On June 1, 2012, samples were again obtained from the three wells, and the wells were monitored. That work is summarized in Geo-Logic's "Report of June 2012 Sampling" dated June 12, 2012.

RECENT FIELD ACTIVITIES -GROUNDWATER SAMPLING

On December 3, 2012, samples were again obtained from the three wells, and the wells were monitored. The groundwater samples were collected as follows: prior to sampling, the wells were checked for depth to water and the presence of free product and sheen. No free product or sheen was noted in the wells.

The wells were bailed until the volume of water withdrawn was equal to at least three casing volumes. To assure that a representative groundwater sample was collected, periodic measurements of the temperature, pH and specific conductance were made. The samples were collected only when the temperature, pH, and/or specific conductance reached relatively constant values.

Water samples were collected using disposable bailers. An effort was made to minimize exposure of the samples to air. The samples were decanted into clean VOA vials that were then sealed with Teflon-lined screw caps, labeled, and stored in a cooler, on ice, until delivery to the laboratory. The samples for metals analyses were filtered in the field due to hold time requirements. Excess water resulting from the purging and cleaning procedures was collected and contained in a drum.

HYDROLOGY

On December 3, 2012, the measured depth to groundwater in wells MW1 through MW3 varied between approximately 4.55 to 7.20 feet below the tops of the well casings. As shown on Figure 2, the estimated hydraulic gradient was to the east at approximately 0.04 feet per foot. The direction of groundwater flow has been predominantly to the north in four out of five previous events, however, the site is under strong tidal influence. The elevations of groundwater rose between approximately 0.30 and 0.80 feet since the previous event on June 1, 2012.

The groundwater elevation data is summarized in Table 1 and on Figure 2. . Copies of the field data sheets are attached to this report.

ANALYTICAL RESULTS

The groundwater samples were analyzed by McCampbell Analytical Laboratory in Pittsburg, California, a state-certified laboratory. The groundwater samples were analyzed for TPH as gasoline, BTEX, and MTBE and the fuel oxygenates and lead scavengers by EPA Method 8260 B, and for the CAM 17 metals.

The only detected hydrocarbons in the groundwater samples collected from the three monitoring wells consisted of 1.0 and 4.4 parts per billion (ppb) of benzene that was detected in MW1 and MW2, respectively. This was a historical low for hydrocarbon detections in the three wells.

For the CAM 17 metals in the monitoring well samples, antimony, beryllium, mercury, silver and thallium were non-detectable. Of the other metals, cadmium, cobalt and copper were detected above their respective ESLs in MW2, cadmium, copper and selenium were detected above their respective ESLs in MW3, and nickel was detected in all three wells at concentrations in excess of the ESL (where groundwater is not considered a potential drinking water source, Table F-1b).

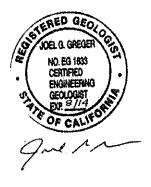
The analytical data is summarized in Tables 2 and 3 and Figure 3. Copies of the laboratory analyses data sheets and chain of custody are attached to this report.

RECOMMENDATIONS

This report will be uploaded to the Geotracker database in addition to the ACEH database. The next monitoring and sampling event will take place about June, 2013.

Should you have any questions regarding this report, please do not hesitate to call me at (510) 593-5382.

Sincerely, Geo-Logic



Joel G. Greger Certified Engineering Geologist Registered Environmental Assessor CEG # EG1633, REA # 07079

cc: Mr. Dave Belcher, Allied Engineering

Attachments: Tables 1 through 3

Figures 1 through 3

Laboratory Analytical Data

Field Data Sheets

TABLE I GROUNDWATER MONITORING DATA 2421 Blanding Ave., Alameda, CA

Well No.	Date	Groundwater Elevation	Top of casing Elevation	Depth to Water	Well Depth	Product Thickness	Sheen	Water purged (gallons)
MW1	4/26/2010	2,37	8,27	5,90	20.13	0	No	25
111111	5/4/2010	-0.30	7	8.57	20,18	0	No	7
	11/5/2010	2.24		6.03	20.16	0	No	9
	5/13/2011	1.99		6.28	20.27	0	No	9
	12/5/2011	1.94		6.33	20,15	0	No	8.5
	6/1/2012	1.86		6.41	20.06	0	No	9.5
	12/3/2012	2.47		5.80	20,15	0	No	9
MW2	4/27/2010	2.60	7.24	4.64	18.90	0	No	28
111112	5/4/2010	0,48		6.76	19.18	0	No	8.5
	11/5/2010	1.91		5.33	19.14	0	No	8
	5/13/2011	2.15		5.09	19.09	0	No	9
	12/5/2011	2.15	***************************************	5.09	19.14	0	No	8.5
	6/1/2012	1.89		5.35	19,16	0	No	9.5
	12/3/2012	2.69		4,55	19.17	0	No	9
MW3	4/26/2010	2,36	9.33	6,97	20.02	0	No	25
	5/4/2010	-1.16		10.49	20.04	0	No	5.75
	11/5/2010	3.93		5.40	20.03	0	No	9
	5/13/2011	1.84		7.49	20.03	0	No	8
	12/5/2011	1.70		7.63	20.04	0	No	8
	6/1/2012	1.83		7.50	20.07	0	No	9.5
	12/3/2012	2,13		7,20	20.00	0	No	8

TABLE 2 GROUNDWATER ANALYTICAL RESULTS - HYDROCARBONS 2421 Blanding Ave., Alameda, CA

Well No.	Date	TPH-g (ppb)	Benzene (ppb)	Toluene (ppb)	Ethylbenzene (ppb)	Xylenes (ppb)	MTBE (ppb)	TBA (ppb)
		•						
MW1	5/4/2010	380	22	0.77	< 0.5	1.2	<0.5	2.4
	11/5/2010	120	4.5	< 0.5	< 0.5	< 0.5	<0.5	<2.0
·	5/13/2011	250	14	< 0.5	< 0.5	< 0.5	< 0.5	<2.0
	12/5/2011	200	8.9	< 0.5	< 0.5	< 0.5	<0.5	<2.0
	6/1/2012	<50	2.1	< 0.5	<0.5	< 0.5	<0.5	<2.0
	12/3/2012	<50	1.0	<0,5	<0.5	<0.5	<0.5	<2.0
MW2	5/4/2010	2,300	210	5.8	<5.0	130	<5.0	<20
	11/5/2010	110	28	< 0.5	2.3	<0.5	0.55	<2.0
	5/13/2011	2,600	240	<5.0	57	25	<5.0	<2.0
	12/5/2011	990	140	<2.5	9.8	3.7	<2.5	<10
	6/1/2012	1,900	190	<5.0	34	15	<5.0	<20
	12/3/2012	<50	4.4	< 0.5	<0.5	<0.5	<0.5	<2.0
					<u> </u>			
MW3	5/4/2010	<50	<0.5	<0.5	<0.5	<0.5	1.6	<2.0
	11/5/2010	<50	<0.5	<0.5	< 0.5	<0.5	<0.5	<2.0
	5/13/2011	<50	<0.5	< 0.5	<0.5	<0.5	0.84	<2.0
	12/5/2011	<50	< 0.5	<0.5	< 0.5	<0.5	0.84	3.4
	6/1/2012	<50	< 0.5	< 0.5	< 0.5	<0.5	0.70	<2.0
	12/3/2012	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<2.0
ESL		100/500	1.0/46	40/130	30/290	13/13	5.0/1,800	12/18,000

EXPLANATION:

ppb = parts per billion

TPH =Total Petroleum Hydrocarbons as gasoline.

TBA = t-Butyl alcohol

ESL - Environmental Screening Level, Tables F-1a/F-1b (groundwater is/is not a potential drinking water source).

TABLE 3
GROUNDWATER ANALYTICAL RESULTS - CAM 17 METALS

2421 Blanding Avenue, Alameda, CA

Well No.	Date	Antimony	Arsenic	Barium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenun	Nickel	Selenium		Vanadium	I .
		(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)
															5.0	
MW1	5/4/2010	<0.5	17	130	0.29	<0.5	6.2	<0.5	2.1	<0.025	4.8	120	<0.5	<0.19	6.0	5.9
	11/5/2010	< 0.5	15	93	<0.25	<0.5	1.4	0.83	<0.5	<0.025	2.0	75	<0.5	<0.19	2.7	<5.0
	5/13/2011	<0.5	18	100	<0.25	<0.5	0.92	<0.5	<0.5	<0.025	2.3	85	<0.5	< 0.19	0.71	<5.0
	12/5/2011	<0.5	19	110	<0.25	<0.5	0.76	<0.5	<0.5	<0.025	1.8	82	<0.5	<0.19	1.7	<5.0
	6/1/2012	<0.5	11	99	<0.25	<1.0	0.70	<0.5	<0.5	<0.025	1.6	59	<0.5	<0.19	0.75	<5.0
	12/3/2012	<0.5	4.7	120	<0.25	<0.5	2.2	0.62	<0.5	<0.025	0.80	54	<0.5	< 0.19	6.1	<5.0
3.0010	5/4/2010	c0 5	A 1	84	1.0	<0.5	7.9	1.7	4.0	<0.025	2.4	190	<0.5	<0.19	8.0	14
MW2	5/4/2010	<0.5 <0.5	4.1 5.3	61	<0.25	<0.5	1.9	3.6	1.7	<0.025	0.74	110	<0.5	< 0.19	9.1	10
	11/5/2010 5/13/2011	<0.5	5.7	62	<0.25	<0.5	1.6	<0.5	<0.5	<0.025	0.74	170	<0.5	<0.19	3.7	<5.0
	12/5/2011		7.8	81	<0.25	<0.5	0.98	<0.5	0.81	<0.025	<0.5	220	<0.5	< 0.19	5.1	<5.0
	6/1/2012	<0.5	5.4	89	<0.25	<1.0	1.1	<0.5	<0.5	<0.025	<0.5	220	<0.5	< 0.19	5.6	<5.0
·	12/3/2012	L	5.3	83	0.50	<0.5	3.2	3.7	1.4	<0.025	<0.5	120	<0.5	<0.19	7.3	68
	12/3/2012	10.0		 						-						
MW3	5/4/2010	0.65	2.7	180	2.1	<0.5	5.9	6.4	14	<0.025	20	85	<0.5	<0.19	4.4	7.0
	11/5/2010	0.91	2.1	81	6.2	7.6	3.6	7.7	4.9	0.055	26	15	2.7	3.0	3.3	35
	5/13/2011	<0.5	2.7	63	0.51	< 0.5	2.1	4.9	2.1	<0.025	6.0	55	0.70	< 0.19	4.4	<5.0
	12/5/2011	<0.5	5.5	48	0.91	0.57	0.64	4.9	1.0	<0.025	14	52	2.1	<0.19	7.6	<5.0
	6/1/2012	<0.5	3.3	38	0.37	<1.0	3.8	5.3	1.1	<0.025	6.1	91	<0.5	<0.19	6.3	6.8
	12/3/2012	<0.5	3.4	63	0.34	2.7	2.3	3.1	<0.5	<0.025	11	24	9.5	<0.19	5.3	<5.0
				15.0		70.5	-0.5	-0 =	105	<0.025	<0.5	<0.5	<0.5	<0.19	<0.5	<5.0
IHC-W	5/13/2011		<0.5	<5.0	<0.25	<0.5	<0.5	<0.5	<0.5			<0.5	<0.5	<0.19		<5.0
IHC-E	5/13/2011	<0.5	<0.5	<5.0	<0.25	<0.5	<0.5	<0.5	<0.5	<0.025	<0.5	~0.5		<u> </u>		1 -5.0
ESL -	<u> </u>	6.0	36	1000	0.25	50	3.0	3.1	2.5	0.025	35	8.2	5.0	0.19	15	81
Table F-1a		 	†	1												
ESL -		30	36	1000	0.25	180	3.0	3.1	2.5	0.025	240	8.2	5.0	0.19	19	81
Table F-1b															1	

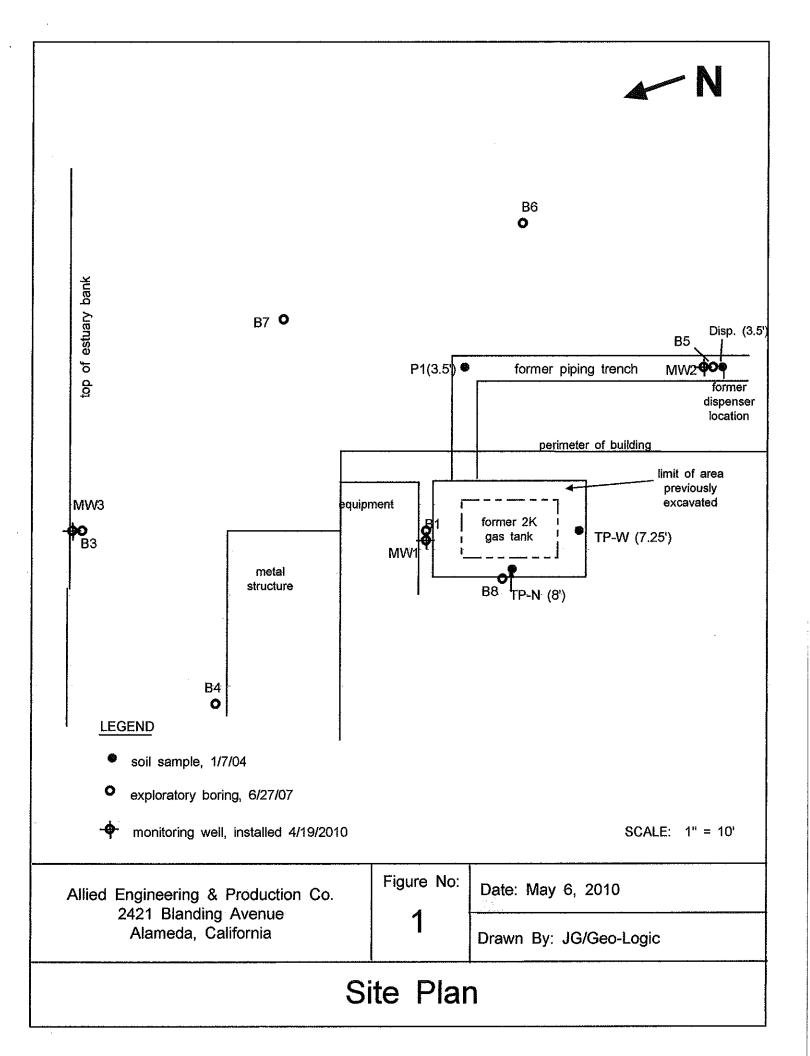
EXPLANATION:

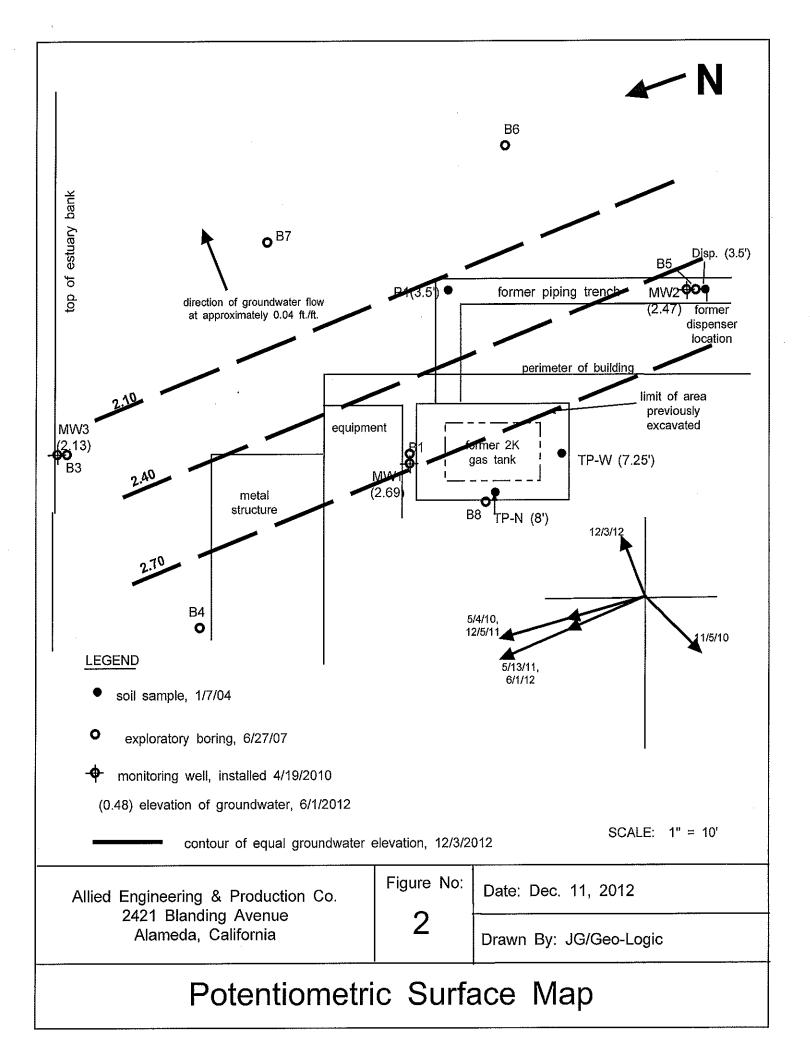
ESL = Environmental Screening Level, RWQCB, May 2008. Table F-1a, groundwater is a potential drinking water source, Table F-1b, groundwater is not a potential drinking water source.

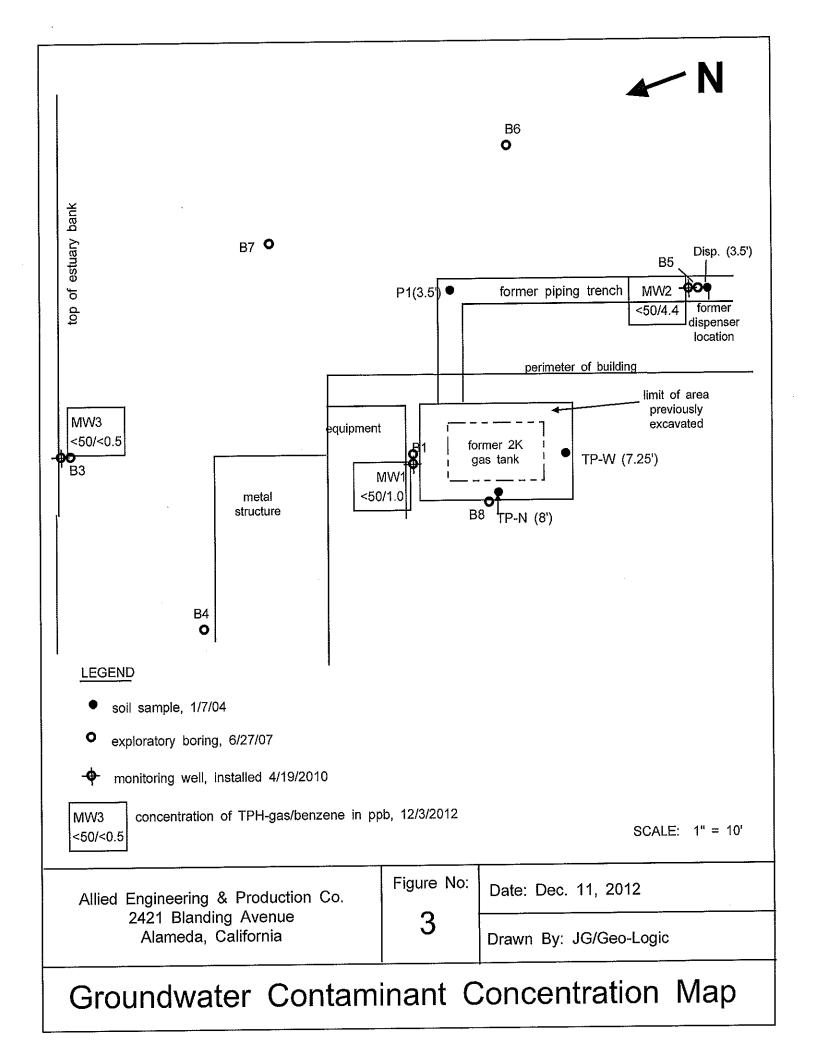
Beryllium and thallium were non-detectable.

IHC = Inner Harbor Channel

ppb = parts per billion







FIELD DATA SHEETS

FLUID-LEVEL MONITORING DATA

Measurement referenced to top of well casing. NOTETH

Project Number	·			·	_Date:	12/3/2012	· <u> </u>
Project/Site Loc	cation:	2421 Bland	ding Ave, A	lameda CA		·	
Technician:	K. Atkinso	on C			Method:	Electronic	
Böring/ Well	Depth to Water (feet)	Depth to Product (feet)	Product Thickness (feet)	Total Well Depth (feet)		Comment	S
MW1	5.80	DESECTED	NIA	20.45	@ !!54		Z" WEY
MW2	4.55			19.17	@ 115%		2" WEY 2" WEY 2" WEY
MW3	7-20	<u> </u>	\ 	<u>డి.</u> లు	@ 		2 WEY
							•
				-			
					March Control		
					٠.		
		· · · · · · · · · · · · · · · · · · ·					

WELL NUMBER / FIE		ID: MW									
DATE: DECEMBER				<u> </u>							
PROJECT / GLOBAL											
SITE LOCATION: 24	21 Blandin	g ave									
CITY: Alameda		,		STATE: CA	Α						
			PURGE	DEVICE							
circle one submers	sible pump	perietali	ic pump,	bladder pu	mp disp	osable baile	∍r				
			<u>SAMPLIN</u>	G DEVICE				•			
circle one submer	sible pump	perietal	tic pump	bladder pu	ımp disp	osable bail	er				
casing diameter (inch	es)	circie one	0.75	1) 4	6					
casing volumes (gallo	-	circle one	0.02	62	0.7	1.52					
	,		WELL	DATA							
SAMPLER/S: Kian Atkinson											
WELL NUMBER / FIELD POINT ID: MW (
A. TOTAL WELL DE	PTH: ZQ.	15						·			
B. DEPTH TO WATE											
C. WATER HEIGHT (ろう									
D. WELL CASING DI			····								
E. CASING VOLUME											
	F. SINGLE CASE VOLUME (CxE): 2-5コ										
G. PURGE CASE VOLUME (3 xE): \$.6 \											
H: 80% RECHARGE LEVEL (F+B): \$\cappa_{\cappa\cappa_{\cappa_{\cappa_{\cappa\cappa_{\cappa_{\cappa_{\cappa_{\cappa\cappa_{\cappa_{\cappa_{\cappa_{\cappa_{\cappa_{\cappa_{\cappa_{\cappa\cappa_{\cappa\cappa_{\cappa\cappa\cappa_{\cappa\cappa\cappa\cappa_{\cappa\cappa_{\cappa\cappa\cappa\cappa\cappa\cappa\cap											
PURGE DATA											
START TIME: \245											
FINISH TIME: 121											
TUBING DEPTH: 10	7										
TODING DEL TIT. 1	<u> </u>		SAMPI	E TIME							
DEPTH TO WATER:	C 015			TIME MEA	SURED:	1315					
SAMPLE APPEARAN		R. CIEAC	SOGO GA								
TOTAL GALLONS P			NO CONT			,					
TOTAL GALLOIOT	ONOLD.		LL FLUID	PARAMETI	ERS						
		1									
CASING VOL.	0	0.5	1	1.5	2	2.5	3				
OAOIIIO VOLI	-	 0.0	 	- 110							
TIME	1245	1250	1255	1300	1305	1310	1315				
T 2384 Ea	1017	1,50	1627	1700	7.002	1-310	1915				
рН	693	6.91	6.51	6.52	6.90	620	650				
<u>\bill</u>	13.17	14. 1	<u> </u>	W-12	Will		W. 13.	 			
TEMP in °C	21.2	21-0	210	21.1	21.1	21.0	24.)				
12111 111 0	010	121-0			21,1	01.11					
COND / SC us/cm	1493	1497	1495	1493	1493	1484	1495				
OO1101 00 0010111	111	 17.16	1	3.331.7	1 4117		1.12				
DTW	5.50	5.50	5.90	ริลิเ	5.93	5.55 ~	->->				
DITT	7,780	νς. τ <u>υ</u>	1-10		ラバン	<u> </u>					
Tubing Depth	10		<u> </u>		 		\rightarrow				
ւ որում տեհա	1.0		 								
Pump Rate ml/min	1000				 		\rightarrow				
i much trate unumit	INCORNE WIND	DA	CE (OF 3	.		Ļ., <u>.</u>				

DATE: DECEMBI PROJECT / GLO		9746048				 		
SITE LOCATION:								
CITY: Alameda	Z4Z7 Diamain	gave		STATE: C	Δ			
Off I. Alameda			BUBCE	DEVICE	^			
airala ana auhi	naralbia nima	d'ariatali			ımın dia	saaabla bái	ios	
<u>circle one</u> subi	mersible pump	pensiai	lic pump	bladder pu	•	oosable bai	ler	
airala ana aub	maraihla numn	nacióta	tic pump	G DEVICE		naaabla ba	ilor	
	mersible pump	' (0.75	bladder p	. , '	posable ba		
casing diameter (i	•	circle one	0.75	(0.2	•	-		
casing volumes (g	anoris)	<u>circle one</u>		DATA) 0.1	1.02	4	
SAMPLER/S: Kia	n Attingon		WELL	DATA				
WELL NUMBER		ID. MIMI			·		.=	
							·	
A. TOTAL WELL								
B. DEPTH TO WA		4					· · · · · · · · · · · · · · · · · · ·	
C. WATER HEIGH		<u>v2</u>				 		
D. WELL CASING		<u></u>	 				· , , · · · · · · · · · · · · · · · · ·	
E. CASING VOLU		**						
F. SINGLE CASE								
G. PURGE CASE			<u> </u>					. ,
H: 80% RECHAR	GE LEVEL (F+	R): 3.47				 	 	
			PURGI	E DATA		 		
START TIME: 17								
TUBING DEPTH:			 	·				·
FINISH TIME: \?						 		
TUBING DEPTH:	10.							
			SAMPL	<u>E TIME</u>				
DEPTH TO WATE			,	TIME MEA	SURED:	1315		<u> </u>
SAMPLE APPEA		R: CUEAR	FUEL OD	9)}				
TOTAL GALLON	8 PURGED: ૧							
		WE	LL FLUID	PARAMETI	<u>ERS</u>		· · · · · · · · · · · · · · · · · · ·	,
CASING VOL.	0	0.5	1	1.5	2	2.5	3	-
OADING FOL.		0.0	<u>'</u>	1.0	4	2.5	3	
TIME	1225	1727	122	1.72.1.275	17205	12:00	1200	
1111112	1325	1330	1335	1340	1345	1350	1355	
рН	7.25	7.23	7.22	7.21	7.18	7.19	7.18	
pri	7.63	1.65	7.66	7.01	17.1 P	7.17	3118	
TEMP in °C	22.6	77.i	22.1	223	22.5	22.7	27.य	
			<u> </u>	00.0	~~	<u> </u>		
COND / SC us/c	m jobio	6661	665	lotol	6601	LUZ	تورون	
	··· VV\	<u> </u>	WW)	WIGH	wu i	4.00	407	
DTW	4.55	رجـــ	4-60	Կ. ((<u> </u>	 >	
<i>9</i> 177	1.37		1 1 40	7.01			 	
	10		 				 	
Tubina Dansh	1 1117	l			<u> </u>	ļ	ļ <u>/</u>	
Tubing Depth			1			1	1 '	
Tubing Depth Pump Rate ml/m							7	

WELL NUMBER		ID: MW3								
PROJECT / GLO		9716048								
SITE LOCATION:										
CITY: Alameda				STATE: CA	4					
			PURGE	DEVICE						
<u>circle one</u> sub	c <u>ircle one</u> submersible pump peristaltic pump bladder pump disposable bailer SAMPLING DEVICE									
circle one sub	circle one submersible pump peristaltic pump bladder pump disposable bailer									
casing diameter (i		circle one	0.75	Œ		- 6				
casing volumes (gallons) circle one 0.02 (0.2, 0.7 1.52										
	•		WELL	DATA						
SAMPLER/S: Kia	n Atkinson									
WELL NUMBER	FIELD POINT	ID: MW3								
A. TOTAL WELL										
B. DEPTH TO W	ATER: 7ル									
C. WATER HEIGI	HT (A-B): 12	ক্য			·					
D. WELL CASING		2								
E. CASING VOLU										
F. SINGLE CASE			.,	.,,						
G. PURGE CASE								_ <u></u>		
H: 80% RECHAR	GE LEVEL (F+	<u>B): </u>		<u>,</u>						
PURGE DATA										
START TIME: 12						· ·				
TUBING DEPTH:						,	 			
FINISH TIME: 1235										
TUBING DEPTH:	12									
			SAMPL	ETIME						
DEPTH TO WAT				TIME MEA	SURED: j	35	·			
SAMPLE APPEA			MONE		,		<u>`</u>			
TOTAL GALLON	S PURGED:	& enco		DADA4677						
		VVE	LL FLUID	PARAMEIL	= <u>RS</u>		г			
CASING VOL	. 0	0.5	1	1.5	2	2.5	3			
TIME	1205	1210	1215	1220	125	1230	1225			
рН	7.05	7.21	7.25	7.26	7 23	7.27	7.27			
TEMP in °C	20.5	20.8	20.8	20.8	20.8	20.8	30 g			
COND / SC us/o	m 18.49 ^{Ms}	17.01"	17.01	16.85	16.66	16.64	16.53			
DTW	7.70		>	7.24		~7	7.16			
Tubing Depth	1 12 -						->			
Pump Rate ml/r	nin waanland						<u> </u>			
			GE 3	OF 3			,			

LABORATORY ANALYTICAL DATA



McCampbell Analytical, Inc. "When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

Geo-Logic	Client Project ID: DE-5062; Allied	Date Sampled: 12/03/12
	Engineering	Date Received 12/04/12
1140 5th Avenue	Client Contact: Joel Gregor	Date Extracted 12/04/12
Crockett, CA 94525	Client P.O.:	Date Analyzed 12/06/12

CAM / CCR 17 Metals*

Lab ID Client ID	1212084-001A MW-1	1212084-002A MW-2	1212084-003A MW-3		Reporting Lin ND means r above the re	ot detected
Matrix	W	W	W		S	W
Extraction Type	DISS.	DISS.	DISS.	1	mg/kg	μg/L

ICD MC Matale Concentration*

Analytical Method: E200.8		•	ICP-MS Metals, Concentration* Extraction Method: E200.8					
Dilution Factor	1	1	1	1	1			
Antimony	ND	ND	ND	NA	0.5			
Arsenic	4.7	5.3	3.4	NA	0.5			
Barium	120	83	63	NA	5.0			
Beryllium	ND	ND	ND	NA	0.5			
Cadmium	ND	0.50	0.34	NA NA	0.25			
Chromium	ND	ND	2.7	NA NA	0.5			
Cobalt	2,2	3.2	2.3	NA NA	0.5			
Copper	0.62	3.7	3.1	NA	0.5			
Lead	ND	1.4	ND	NA NA	0.5			
Mercury	ND	ND	ND	NA	0.025			
Molybdenum	0.80	ND	11	NA NA	0.5			
Nickel	54	120	24	NA NA	0.5			
Selenium	ND	ND	9.5	NA	0.5			
Silver	ND	ND	0.23	NA	0.19			
Thallium	ND	ND	ND	NA NA	0.5			
Vanadium	6.1	7.3	5.3	NA	0.5			
Zine	ND	68	ND	NA	5.0			
%SS:	N/A	N/A	N/A					

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L,

soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit/method detection limit; N/A means not applicable to this sample or instrument; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container. DISS = Dissolved metals by direct analysis of 0.45 µm filtered and acidified sample.

	McCampbell Analytical, Inc
2 17.78	"When Quality Counts"

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Geo-Logic	Client Project ID: DE-5062; Allied	Date Sampled: 12/03/12
1140 5th Avenue	Engineering	Date Received: 12/04/12
1140 Jul Avenue	Client Contact: Joel Gregor	Date Extracted 12/05/12-12/06/12
Crockett, CA 94525	Client P.O.:	Date Analyzed 12/05/12-12/06/12

TPH(g) by Purge & Trap and GC/MS*

Analytical methods: SW8260B Work Order: 1212084 Extraction method: SW5030B DF | % SS | Comments

Lab ID	Client ID	Matrix	TPH(g)	DF	% SS	Comment
001B	MW-1	w	ND	1	102	
002B	MW-2	w	ND	1	99	
003B	MW-3	W	ND	1	102	
						la description
			d and a second s			
	2.300					

Reporting Limit for DF =1;	w	50	μg/L
ND means not detected at or above the reporting limit	S	NA	NA

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

Angela Rydelius, Lab Manager

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main Quanty Co.	4771G	
Geo-Logic	Client Project ID: DE-5062; Allied	Date Sampled: 12/03/12
1140 5th Avenue	Engineering	Date Received: 12/04/12
1140 Jin Avenue	Client Contact: Joel Gregor	Date Extracted: 12/05/12
Crockett, CA 94525	Client P.O.:	Date Analyzed: 12/05/12

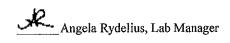
Oxygenates, MBTEX & Lead Scavengers by GC/MS*

Extraction Method: SW5030B	Ana	Work Order:	1212084		
Lab ID	1212084-001B	1212084-002B	1212084-003B		
Client ID	MW-1	MW-2	MW-3	Reporting DF	
Matrix	W	W	W		
DF	1	1	S	W	
Compound		Conc	entration	ug/kg	μg/L
tert-Amyl methyl ether (TAME)	ND	ND	ND	NA	0.5
Benzene	1.0	4.4	ND	NA	0.5
t-Butyl alcohol (TBA)	ND	ND	ND	, NA	2.0
1,2-Dibromoethane (EDB)	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	NA	0.5
Diisopropyl ether (DIPE)	ND	ND	ND	NA	0.5
Ethylbenzene	ND	ND	ИD	NA	0.5
Ethyl tert-butyl ether (ETBE)	ND	ND	ND	. NA	0.5
Methyl-t-butyl ether (MTBE)	ND	ND	ND	NA	0.5
Toluene	ND	ND	ND	NA	0.5
Xylenes, Total	ND	ND	ND	NA NA	0.5
ANALY MALE AND ANALY	Surre	ogate Recoveries	(%)		
%SS1:	106	105	106		
%SS2:	100	100	100		
%SS3:	98	94	96		
Comments					

^{*} water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis.

[#] surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

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QC SUMMARY REPORT FOR E200.8

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 72909

WorkOrder: 1212084

EPA Method: E200.8	Extraction: E200.8	200.8 Spiked Sample ID: 1212001-00												
Analida	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	eptance	Criteria (%)					
Analyte	hg/r	µg/L µg/L		% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS					
Antimony	ND	50	109	108	0.738	106	85 - 115	20	85 - 115					
Arsenic	1.5	50	100	103	2.52	100	85 - 115	20	85 - 115					
Barium	. 35	500	104	104	0	102	85 - 115	20	85 - 115					
Beryllium	ND	50	103	103	0	104	85 - 115	20	85 - 115					
Cadmium	ND	50	102	103	0.704	104	85 - 115	20	85 - 115					
Chromium	ND	50	98.2	97.4	0.798	99.5	85 - 115	20	85 - 115					
Cobalt	ND	50	101	101	0	106	85 - 115	20	85 - 115					
Copper	2.4	50	97.4	97.4	0	103	85 - 115	20	85 - 115					
Lead	ND	50	99.3	99.9	0.602	100	85 - 115	20	85 - 115					
Mercury	ND	1.25	107	105	1.41	103	85 - 115	20	85 - 115					
Molybdenum	2.6	50	106	106	0	104	85 - 115	20	85 - 115					
Nickel	ND	50	96.7	97.2	0.576	100	85 - 115	20	85 - 115					
Selenium	ND	50	102	101	1.41	104	85 - 115	20	85 - 115					
Silver	ND	50	101	100	0.278	104	85 - 115	20	85 - 115					
Thallium	ND	50	97	97.2	0.185	97.1	85 - 115	20	85 - 115					
Vanadium	1.9	50	100	100	0	99.9	85 - 115	20	85 - 115					
Zinc	ND	500	99.3	99.3	0	103	85 - 115	20	85 - 115					
%SS:	103	750	104	104	0	102	70 - 130	20	70 - 130					

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 72909 SUMMARY

Lab ID	Date Sampled	e Sampled Date Extracted Date Analyzed Lab ID Date S		Date Sampled	Date Extracted	Date Analyzed	
1212084-001A	12/03/12 1:15 PN	M 12/04/12	12/06/12 4:06 PM	1212084-002A	12/03/12 1:55 PM	12/04/12	12/06/12 4:13 PM
1212084-002A	12/03/12 1:55 PM	M 12/04/12	12/06/12 9:13 PM	1212084-003A	12/03/12 12:35 PM	12/04/12	12/06/12 4:21 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

A QA/QC Officer

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 72979

WorkOrder: 1212084

EPA Method: SW8260B	Extraction: SW5030B	: SW5030B Spiked Sample ID: 1212074-002C												
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acc	Acceptance Criteria (%						
Allayto .	µg/∟	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS					
tert-Amyl methyl ether (TAME)	ND	10	99.8	96.8	3.02	90.2	70 - 130	20	70 - 130					
Benzene	ND	10	99.5	98.4	1.06	93.3	70 - 130	20	. 70 - 130					
t-Butyl alcohol (TBA)	ND	40	97.4	95.9	1.60	91.6	70 - 130	20	70 - 130					
1,2-Dibromoethane (EDB)	ND	10	92.6	88.3	4.75	94.5	70 - 130	20	70 - 130					
1,2-Dichloroethane (1,2-DCA)	ND	10	97.3	95.8	1.57	96	70 - 130	20	70 - 130					
Diisopropyl ether (DIPE)	ND	10	111	109	1.62	98	70 - 130	20	70 - 130					
Ethyl tert-butyl ether (ETBE)	ND	10	108	106	2.44	99.5	70 - 130	20	70 - 130					
Methyl-t-butyl ether (MTBE)	ND	10	103	99.8	2.80	97.5	70 - 130	20	70 - 130.					
Toluene	ND	10	87.3	85.5	2.03	88,5	70 - 130	20	70 - 130					
%SS1:	104	25	103	104	0.927	105	70 - 130	20	70 - 130					
%SS2:	101	25	100	99	0.477	101	70 - 130	20	70 - 130					
%SS3:	95	2.5	90	91	1.37	98	70 - 130	20	70 - 130					

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

BATCH 72979 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1212084-001B	12/03/12 1:15 PM	12/05/12	12/05/12 4:22 PM	1212084-002B	12/03/12 1:55 PM	12/05/12	12/05/12 5:02 PM
1212084-003B	12/03/12 12:35 PM	12/05/12	12/05/12 5:41 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

QA/QC Officer



McCAMPBELL ANALYTICAL, INC.

ISM WILLOW PASS ROAD PITTSBURG, CAMER-DOI

	· · · · · · · · · · · · · · · · · · ·	
3	121	2084

Website: www.mecamphell.com Email: main@mccampbell.com Telephone: 48771 257-9762

CHAIN	CUST	OW	RECO	RD
4.5	Colona	****		

TURN AROUND TEME

组织 24 标

ZHR 5 DAY

Carlynnia titl & DIE & Park Co

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