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Environmental Health



1475 Powell Street Suite 201 Emeryville California 94608 Phone 510/652-4950 Fax 510/652-0588

August 9, 2010

Ms. Barbara Jakub Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

SUBJECT: SOIL

SOIL GAS INVESTIGATION WORK PLAN CERTIFICATION

County File # RO 2991

Acts Full Gospel Church & Industrial Properties

8410 Amelia Street Oakland, California

Dear Ms. Jakub:

You will find attached one copy of the following document prepared by P&D Environmental, Inc.

• Soil gas Investigation Work Plan dated August 9, 2010 (document 0453.W1A).

I declare, under penalty of perjury, that the information and/or recommendations contained in the above-mentioned document for the subject site is true and correct to the best of my knowledge.

Should you have any questions, please do not hesitate to contact me at 510-652-4950.

Sincerely,

Libitzky Property Companies

Kevin Perkins

Attachment

PHK/sjc 0453.L1

P&D ENVIRONMENTAL, INC.

55 Santa Clara Avenue, Suite 240 Oakland, CA 94610 (510) 658-6916

August 9, 2010 Work Plan 0453.W1A

Ms. Barbara Jakub Alameda County Environmental Health 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502

SUBJECT: SOIL GAS INVESTIGATION WORK PLAN

County File # RO 2991

Acts Full Gospel Church & Industrial Properties

8410 Amelia Street Oakland, California

Dear Ms. Jakub:

P&D Environmental, Inc. (P&D) is pleased to present this work plan for soil gas investigation at the subject site. Soil gas samples will be collected at a total of five on-site locations, designated as SG1 through SG5, to evaluate the subsurface presence and extent of Trichloroethene (TCE) in soil gas, and for preliminary risk and hazard evaluation of potential vapor intrusion to indoor air. A Site Location Map is attached as Figure 1, and a Site Plan is attached as Figure 2.

All work will be performed under the direct supervision of a professional geologist. This work plan is prepared in accordance with guidelines set forth in the following documents.

- Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites" dated August 10, 1990 and "Appendix A Workplan for Initial Subsurface Investigation" dated August 20, 1991,
- Department of Toxic Substances Control (DTSC) "Use of California Human Health Screening Levels (CHHSLs) in Evaluation of Contaminated Properties" dated January, 2005,
- DTSC "Guidance for the Evaluation and Mitigation of Subsurface Vapor Intrusion to Indoor Air" revised February 7, 2005,
- San Francisco Bay Regional Water Quality Control Board (SFRWQCB) "Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater" dated May 2008,
- DTSC "Vapor Intrusion Mitigation Advisory" revised May 8, 2009, and
- DTSC "Advisory Active Soil Gas Investigations" dated March 3, 2010.

BACKGROUND

San Leandro Bay is located approximately 6,300 feet to the west-southwest of the subject site. The surface topography gently slopes to the west-southwest in the vicinity of the subject site, and although shallow groundwater flow direction can be locally controlled by surface drainage and lithology, the regional groundwater flow direction in the vicinity of the subject site is to the west-southwest.

Basics Environmental, Inc. (Basics) of Oakland California completed a Phase I Environmental Site Assessment for the subject site dated February 29, 2008. Based on recommendations in the report for subsurface investigation at the site, Basics prepared a Limited Phase II Environmental Site Sampling Report dated May 7, 2008 that documented the drilling of six boreholes (SB1 through SB6) on April 24, 2008. The borehole locations are shown in Figure 2.

Soil was collected from each borehole at a depth of 4.5 feet below the ground surface (bgs) and groundwater was collected from each borehole for laboratory analysis. Two of the boreholes were drilled to a depth of 15 feet bgs, and four of the boreholes were drilled to a depth of 20 feet bgs. Groundwater was initially encountered in the boreholes at depths ranging from 14 to 16 feet bgs, and was subsequently measured in the boreholes at depths ranging from 4.3 to 7.6 feet bgs. The subsurface materials encountered in the boreholes consisted of clay to depths ranging from 12.5 to 14.0 feet bgs, beneath which clayey sand and silty sand was encountered. In two of the boreholes, sand and gravel were encountered between the depths of 18.5 and 20.0 feet bgs. No staining, discoloration, odor, detectable Photoionization Detector (PID) values, or other evidence of contamination were detected in any of the boreholes.

The soil sample results are summarized in Table 1, and the groundwater sample results are summarized in Table 2. Review of Table 1 shows that no organic compounds were detected in any of the soil samples with the exception of 4.2 milligrams per kilogram (mg/kg) of Total Petroleum Hydrocarbons as Bunker Oil (TPH-BO) in borehole SB5. Additionally, no metals were detected in any of the samples exceeding their respective May 2008 Table A San Francisco Bay Regional Water Quality Control Board (SFRWQCB) commercial/industrial Environmental Screening Level (ESL) values with the exception of arsenic and total chromium in all of the soil samples. Review of Table 2 shows that no organic compounds were detected in any of the groundwater samples with the exception of MTBE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE and 1,1-DCA. Review of Table 2 shows that the only compound detected exceeding May 2008 Table A SFRWQCB ESL values was TCE at locations SB3 and SB6 (at concentrations of 30 and 100 micrograms per liter (ug/L), respectively), and that none of the detected concentrations exceeded May 2008 SFRWQCB Table E1 ESL values for either residential or commercial land use for potential vapor intrusion concerns.

TCE was detected in groundwater at the subject site in boreholes SB1, SB2, SB3 and SB6, with the highest concentrations in the northernmost boreholes (SB3 and SB6), and the highest concentration detected on the upgradient side of the site at SB6, near the intersection of G Street and 84th Avenue. An on-line search of the DTSC database Envirostor, the State Water Resources Control Board (SWRCB) database GeoTracker, and the Alameda County Department of Environmental Health (ACDEH) website for potential TCE sources in the immediate vicinity of the subject site revealed a total of four sites within 500 feet of the subject site property line. The potential TCE sources are summarized in Table 3 and are shown in Figure 3. The property located immediately to the east of

the subject site has recently been developed by the Oakland Housing Authority as the Tassafargonga Village, and the precise former location of the former Continental Plating facility is unknown. The location of the former Continental Plating facility shown on Figure 3 is an approximation only.

Review of available documents for the former D. Merlino & Sons/former Alita Brand Macaroni site located at 968 and/or 976 81st Avenue and 1001 83rd Avenue (approximately 200 feet to the east-northeast of the subject site) identified on Envirostor a September 2008 Final Removal Action Workplan for the Tassafaronga Village in Oakland, California prepared by Fugro West, Inc. (Fugro). Selected figures and tables from the Fugro work plan, in addition to the cover of the document, are provided in Appendix A. In Appendix A Plate 9 shows all groundwater sample collection locations and associated TCE concentrations, and Plate 4 shows all soil gas sample locations. In Appendix A Tables 1B and 2B provide groundwater sample results, and Tables 1C and 2C provide soil gas sample results. The soil gas sample depths and procedures used for soil gas sample collection are not described in the 2008 Fugro work plan.

Review of Plate 9 in Appendix A shows that TCE was detected in groundwater at the Tassafaronga Village site located immediately to the east and upgradient of the subject site. The highest TCE groundwater concentrations were encountered at the east end of 84th Avenue where 220 and 160 ug/L TCE was detected at locations B-3 and B-12, respectively, with additional elevated concentrations encountered at downgradient locations B-7, B-6 and B-4. The groundwater concentrations at locations B-6 and B-4 were 110 and 120 ug/L, and are located immediately upgradient of location SB6 at the subject site where TCE was encountered in groundwater at a concentration of 100 ug/L. It is possible that the former Continental Plating facility could have been located further to the west than shown in Figure 3, and that the TCE detected in groundwater at upgradient locations B-3 and B-12 are related to activities at the former Continental Plating facility. Review of Plate 4 in Appendix A shows that each of soil gas samples SG-1 through SG-8 at the Tassafaronga Village site were collected at locations where groundwater samples were collected. Review of Table 1C in Appendix A shows that no TCE was detected in any of the soil gas samples.

Although review of the Envirostor database identified the former Elmhurst Anodizing facility at the north end of the subject site, no information was available regarding TCE in soil or groundwater at the site. Similarly, review of the GeoTracker database identified the presence of the former Continental Plating facility to the east-northeast of the subject site and the American Chrome facility to the east-southeast of the subject site, but no information was available regarding TCE in soil or groundwater at the sites.

SCOPE OF WORK

P&D will perform the following tasks.

- Health and safety plan preparation and mark drilling locations with white paint.
- Soil gas sample collection.
- Arrange for soil gas sample analysis.
- Report preparation.

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Each of these is discussed below in detail.

Health and Safety Plan Preparation

A health and safety plan will be prepared for the scope of work identified in this work plan. Prior to the beginning of fieldwork, the drilling locations will be marked with white paint and Underground Service Alert will be notified for underground utility location. Notification of the scheduled date of investigation will also be provided to the ACDEH.

Soil Gas Sample Collection

Soil gas samples will be collected at a depth of 5 feet bgs at each of the proposed soil gas sample collection locations shown in Figure 2 (SG1 through SG5). All of the soil gas samples will be collected using temporary soil gas sampling wells. All of the temporary wells will be constructed by driving a hollow 1-inch diameter Geoprobe rod with an expendable tip to a depth of 5 feet bgs, dislodging the expendable tip, and then inserting a 7-foot length of 0.250-inch outside diameter (0.187-inch inside diameter) Teflon tube to the bottom of the hollow rod.

Prior to inserting the Teflon tubing the lowermost 6 inches of the Teflon tubing will be perforated at several locations by notching the sides of the tube with a clean razor blade. A #2/16 Lonestar sack sand will be added to the annular space between the hollow rod and the Teflon tube as the hollow rod is withdrawn from the ground until the lowermost 12 inches of the hole is filled with sand. Granular bentonite (with grains measuring approximately 2 to 3 millimeters in diameter) will be placed in the annular space above the sand to a height of 1 foot above the sand. The remaining annular space will be filled with hydrated bentonite slurry. A 6-liter Summa purge canister and 1-liter Summa sample canister will then be connected to the Teflon tubing using the configuration shown in Figure 4. At the time that the sampling manifold is assembled, the vacuum for the sample canister will be checked with a vacuum gauge and recorded.

The temporary well will then be undisturbed to allow soil gas equilibration for a minimum of 30 minutes prior to leak testing and purging for sample collection. Following the equilibration period and prior to purging the soil gas from the temporary soil gas sampling well, a 10 minute leak check of the sampling manifold will be performed by closing the valve located between the filter and the pressure gauge, opening the purge canister valve, and recording the manifold system vacuum (see Figure 4). No purge testing for purge volume determination will be done because samples will be collected into Summa canisters. Following successful verification of the manifold leak check, a default of three purge volumes will be extracted prior to sample collection. The purge time will be calculated using a nominal flow rate provided by the flow controller of 200 milliliters per minute. Following completion of purging three purge volumes, the valve to the purge canister will be closed, a tracer gas (2-Propanol) will be placed in a dish adjacent to the purge canister, and a clear Rubbermaid bin will be placed over the top of the temporary well, the sampling manifold, and the 1-liter sample canister.

The vapor concentration of the 2-Propanol will be monitored with a PID until 2-Propanol vapor concentrations appear to have equilibrated. The Rubbermaid bin will then be temporarily and partially lifted long enough to open the sample canister valve and the bin will then be replaced over the sampling equipment and the 2-Propanol vapor concentrations will then be monitored

again with the PID. Once the vacuum for the sample canister valve has decreased to 5 inches of mercury, the Rubbermaid bin will be removed and the sample canister valve closed. The pressure gage on the inlet side of the flow controller (see Figure 4) will be monitored during sample collection to ensure that the vacuum applied to the temporary well does not exceed 100 inches of water.

One duplicate soil gas sample will be collected using a stainless steel sampling tee. Following soil gas sample collection, a PID will be connected to the Teflon tubing to obtain a preliminary field value for the sample collection location. The soil gas samples will then be stored in a box and promptly shipped to the laboratory for extraction and analysis. Chain of custody procedures will be observed for all sample handling. Measurements of vacuums, purging and equilibration time intervals, and PID readings will be recorded on Soil Gas Sampling Data Sheets.

All drilling rods and associated drilling fittings for construction of the temporary soil gas wells will be cleaned with an Alconox solution wash followed by a clean water rinse. New Teflon tubing will be used at each sample collection location. Clean, unused vacuum gages and stainless steel sampling manifolds will be used at each sample collection location. A new stainless steel tee will be used in the sampling manifold for collection of the duplicate sample. Following soil gas sample collection the Teflon tubing will be pulled from each temporary soil gas sampling well and the temporary soil gas wells will be destroyed using a 1-inch diameter solid steel rod driven through the bentonite and sand to the total depth of the temporary soil gas sampling well. The solid steel rod will be removed, and the borehole will be filled with neat cement.

Arrange for Soil Gas Sample Analysis

The soil gas air samples will be analyzed at Air Toxics, Limited in Folsom, California. Analysis will be performed for MTBE, TCE, cis-1,2-DCE, 1,1,1-TCA, 1,1-DCE, 1,1-DCA, and the tracer gas 2-Propanol using EPA Method TO-15.

Report Preparation

Following completion of soil gas sample collection, a report will be prepared. The report will document soil gas sample collection methods and sample results. The report will include a site plan showing sample collection locations, copies of field data sheets generated during sample collection, copies of the soil gas sample laboratory reports, tables summarizing the sample results, preliminary risk and hazard analysis for potential vapor intrusion to indoor air, and the stamp of a professional geologist.

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Should you have any questions, please do not hesitate to contact us at (510) 658-6916.

Sincerely,

P&D Environmental, Inc.

Paul H. King

California Professional Geologist #5901

Expires: 12/31/11



Attachments:

Table 1 – Summary of Soil Sample Analytical Results – Organic and Inorganic Compounds

Table 2 – Summary of Groundwater Sample Analytical Results

Table 3 – Summary of Offsite Potential TCE Sources

Figure 1 – Site Location Map

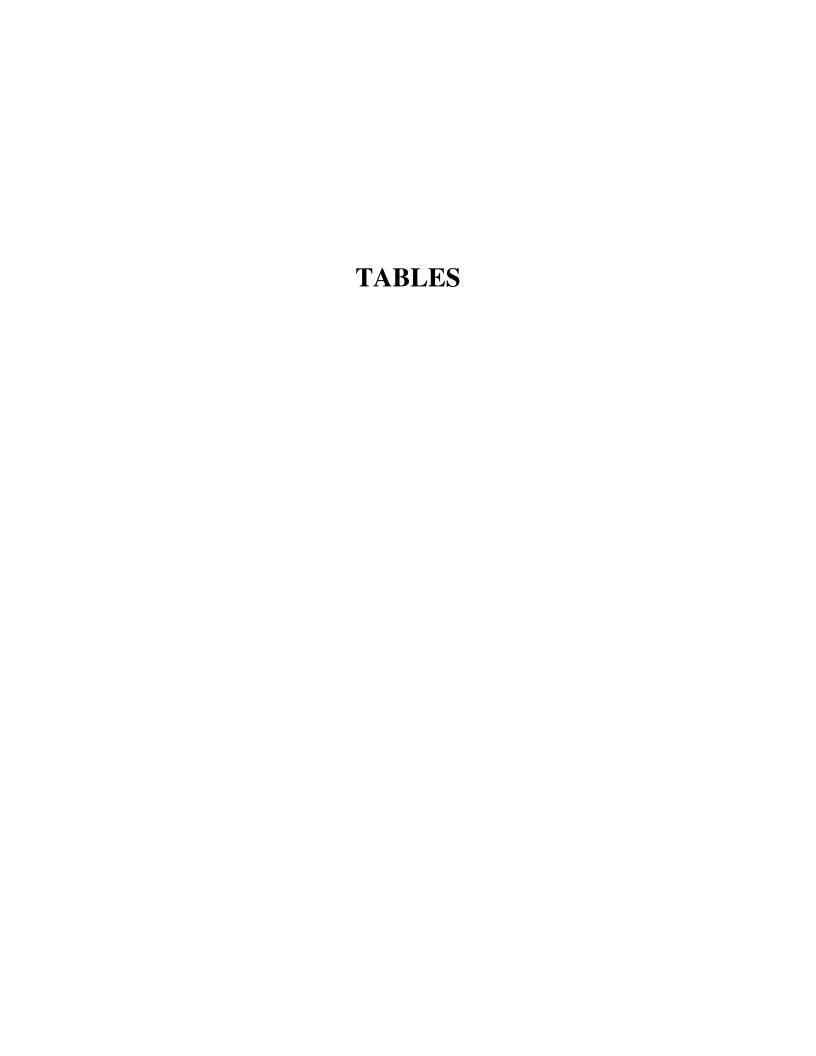
Figure 2 – Site Plan

Figure 3 – Site Vicinity Map

Figure 4 – Typical Soil Gas Sampling Manifold

Appendix A – Selected Information from Fugro West, Inc. September 2008 Final Removal Action Workplan, Tassafaronga Village, Oakland, California

PHK/mld 0453.W1A



Work Plan 0453.W1 TABLE 1
Summary of Soil Sample Analytical Results - Organic Compounds

Sample ID	Sample Depth	Sample Date	TPH-G	TPH-SS	TPH-D	ТРН-ВО	ТРН-К	MTBE	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other VOCs by EPA 8260
SB1-4.5	4.5	4/24/2008	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	All ND
SB2-4.5	4.5	4/24/2008	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	All ND
SB3-4.5	4.5	4/24/2008	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	All ND
SB4-4.5	4.5	4/24/2008	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	All ND
SB5-4.5	4.5	4/24/2008	ND<1.0	ND<1.0	ND<1.0, a	4.2	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	All ND
SB6-4.5	4.5	4/24/2008	ND<1.0	ND<1.0	ND<1.0	ND<2.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	All ND
ESL ¹			83	83	83	370	370	0.023	0.044	2.9	2.3	2.3	Various
ESL ²			83	83	83	2,500	2,500	0.023	0.044	2.9	3.3	2.3	Various
	l Petroleum Hydro al Petroleum Hydr												
TPH-D = Tota	l Petroleum Hydro tal Petroleum Hyd	ocarbons as Diese	el.										
TPH-K = Tota	Petroleum Hydro yl-tert-Butyl Ethe	ocarbons as Kero											
	ile Organic Comp												
a = Laboratory	analytical note: o				D 1 177	0 11 0	. 15	(OF PINC CT	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	. 2000 3	T 11 4		
Shallow Soils,	mental Screening groundwater is a	current or potent	tial source of	drinking wat	er. Residentia	al land use.							
ESL ² = Environmental Screening Level, developed by San Francisco Bay – Regional Water Quality Control Board (SF-RWQCB), updated May 2008, from Table A – Shallow Soils, groundwater is a current or potential source of drinking water. Commercial/Industrial Land Use.													
	LD indicate conc igrams per kilogra				L value.								

Work Plan 0453.W1 TABLE 1
Summary of Soil Sample Analytical Results - Inorganic Compounds

Sample ID	Sample Depth	Sample Date	Sb	As	Ba	Be	Cd	Cr	Co	Cu	Pb	Hg	Mo	Ni	Se	Ag	Tl	V	Zn
SB1-4.5	4.5	4/24/2008	0.50	<u>6.3</u>	240	0.86	ND<0.25	<u>79</u>	9.0	38	11	ND<0.05	ND<0.5	60	ND<0.5	ND<0.5	ND<0.5	74	83
SB2-4.5	4.5	4/24/2008	0.52	<u>12</u>	330	0.75	ND<0.25	<u>67</u>	32	33	12	ND<0.05	ND<0.5	68	ND<0.5	ND<0.5	ND<0.5	70	72
SB3-4.5	4.5	4/24/2008	ND<0.5	<u>5.4</u>	290	0.79	ND<0.25	<u>67</u>	7.8	34	10	ND<0.05	ND<0.5	49	ND<0.5	ND<0.5	ND<0.5	60	74
SB4-4.5	4.5	4/24/2008	ND<0.5	6.0	290	0.78	ND<0.25	<u>69</u>	10	34	9.9	ND<0.05	ND<0.5	58	ND<0.5	ND<0.5	ND<0.5	63	75
SB5-4.5	4.5	4/24/2008	ND<0.5	<u>4.5</u>	190	0.63	ND<0.25	<u>55</u>	5.9	25	7.6	ND<0.05	ND<0.5	43	ND<0.5	ND<0.5	ND<0.5	57	59
SB6-4.5	4.5	4/24/2008	ND<0.5	3.6	270	0.82	ND<0.25	<u>76</u>	7.0	38	9.4	ND<0.05	ND<0.5	55	ND<0.5	ND<0.5	ND<0.5	67	76
ESL 1			6.3	0.39	750	4.0	1.7	8.0	40	230	200	1.3	40	150	10	20	1.3	16	600
ESL ²			40	1.6	1,500	8.0	7.4	8.0	80	230	750	10	40	150	10	40	16	200	600
NOTES: Sb = Antimon Zn = Zinc ND = Not Det	y; As = Arsenic; I	Ba = Barium; Be	= Beryllium;	Cd = Cadmi	um; Cr = Chr	omium; Co :	= Cobalt; Cu =	: Copper; Pb	= Lead; Hg =	= Mercury; N	Io = Molybdei	num; Ni = Nicke	el; Se = Seleni	um; Ag = \$	Silver; Tl =	Thallium;	V = Vanad	ium;	
ESL 1 =Environ	nmental Screening	Level, develope	ed by San Fran	ncisco Bay –	Regional Wa	ter Quality	Control Board	(SF-RWQC	B), updated	May 2008, f	rom Table A	– Shallow Soils,	groundwater	is a curren	t or potenti	al source o	f drinking v	vater.	
Residential lar	nd use.																		
ESL^2 = Environment	onmental Screening	ng Level, develop	ped by San Fra	ancisco Bay	- Regional W	ater Quality	Control Boar	d (SF-RWQ	CB), updated	May 2008, 1	from Table A	- Shallow Soils	, groundwater	is a curre	nt or potent	ial source of	of drinking	water.	
	ndustrial Land Use L values for hexay			-															
	LD indicate conc			enoctive FC	I ¹ volue														
				•															
	lues indicate conc				value.														
Kesuits in mill	igrams per kilogra	am (mg/kg) unles	ss otnerwise ir	idicated.															

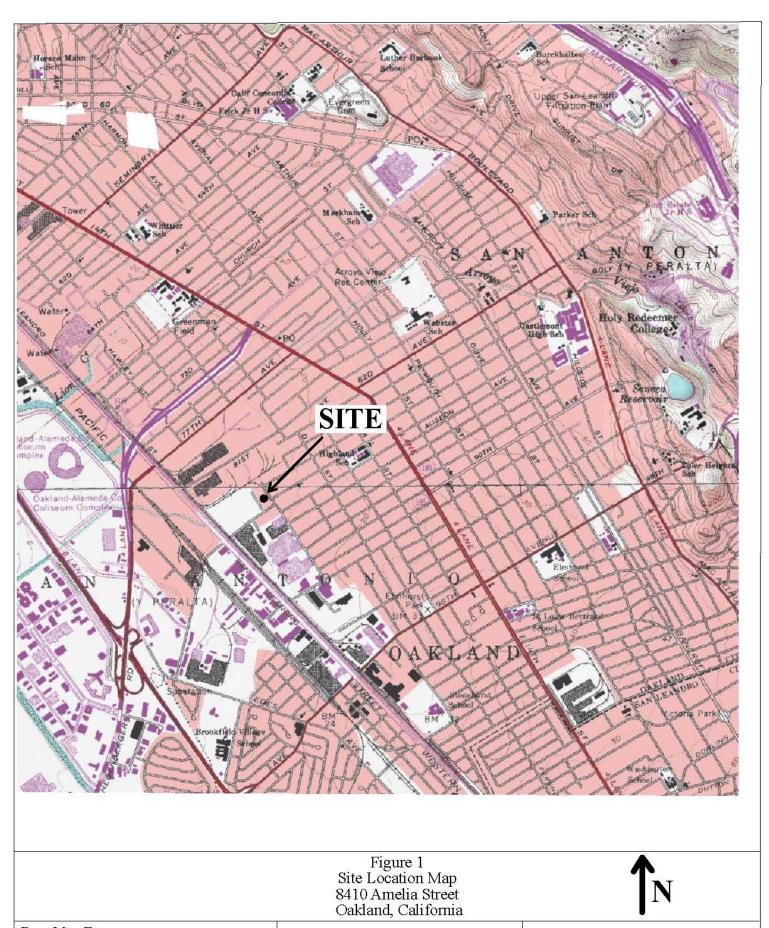
Summary of Groundwater Sample Analytical Results

Sample ID	Sample Date	TPH-G	TPH-SS	TPH-D	TPH-BO	MTBE by EPA	Benzene by EPA	Toluene by EPA	Ethylbenzene by EPA	VOCs by EPA 8260
						8021B	8021B	8021B	8021B	
						0021B	0021B	0021B	0021B	
SB1-W	4/24/2008	ND<50	ND<50	ND<50	ND<100	ND<5.0	ND<0.5	ND<0.5	ND<0.5	All ND except,
										MTBE = 2.2,
										TCE = 1.1,
										cis-1,2-DCE = 1.3
SB2-W	4/24/2009	NID 450	ND<50	ND<50	ND<100	ND<5.0	NID 40 5	ND 40.5	NID +0.5	All NID
SB2-W	4/24/2008	ND<50	ND<50	ND<50	ND<100	ND<5.0	ND<0.5	ND<0.5	ND<0.5	All ND except, MTBE = 2.9,
										TCE = 2.6,
										cis-1,2-DCE = 0.68
SB3-W	4/24/2008	ND<50	ND<50	ND<50	ND<100	ND<5.0	ND<0.5	ND<0.5	ND<0.5	All ND except,
										MTBE = 1.4,
										TCE = 30,
										cis-1,2-DCE = 1.3
SB4-W	4/24/2008	ND<50	ND<50	ND<50	ND<100	ND<5.0	ND<0.5	ND<0.5	ND<0.5	All ND except,
3D4-W	4/24/2008	NDC30	NDC30	NDC30	NDC100	ND<5.0	NDC0.5	ND<0.5	NDC0.5	MTBE = 2.9,
										M1BE = 2.2,
SB5-W	4/24/2008	ND<50	ND<50	ND<50	ND<100	ND<5.0	ND<0.5	ND<0.5	ND<0.5	All ND except,
1										MTBE = 1.4,
										1,1,1-TCA = 1.0,
										1,1-DCE = 1.4,
										1,1-DCA = 0.68
SB6-W	4/24/2008	ND<50	ND<50	ND<50	ND<100	ND<5.0	ND<0.5	ND<0.5	ND<0.5	All NID
3B0-W	4/24/2008	ND<30	ND<30	NDC30	ND<100	ND<3.0	ND<0.5	ND<0.3	ND<0.5	All ND except, TCE = 100,
										cis-1,2-DCE = 4.3
										,
ESL^{I}		100	100	100	100	5.0	1.0	40	30	MTBE = 5.0,
										TCE = 5.0,
										cis-1,2-DCE = 6.0,
										1,1,1-TCA = 62,
										1,1-DCE = 6.0, 1,1-DCA = 5.0
ESL ²		10,000	10,000	10,000	None	24,000	540	380,000	170,000	MTBE = 24,000,
ESL		,	,			1,000			,	TCE = 530,
										cis-1,2-DCE = 6,200,
										1, 1, 1-TCA = 130,000,
										1,1-DCE = 6,300,
										1,1-DCA = 1,000
ESL ³		29,000	29,000	29,000	None	80,000	1,800	530,000	170,000	MTBE = 80,000,
										TCE = 1,800,
										cis-1,2-DCE = 17,000, 1,1,1-TCA = 360,000,
										1,1-ICA = 300,000, 1,1-DCE = 18,000,
1										1,1-DCE = 18,000, 1,1-DCA = 3,400
										,
NOTES:										
	etroleum Hydrocarbo									
	etroleum Hydrocarb		olvent.						1	
	etroleum Hydrocarbo		1						1	
TPH-BO = Total F MTBE = Methyl-to	Petroleum Hydrocarl	oons as Bunker of	1.						1	
	Organic Compound	S.								
TCE = Trichloroet									1	
cis-1,2-DCE = cis-	-1,2-Dichloroethene									
1,1,1-TCA = 1,1,1										
1,1-DCE = 1,1-Die									1	
1,1-DCA = 1,1-Di ND = Not Detecte									1	
	ental Screening Leve	davalonad bee	on Francisco P	v Dagional W	oter Quelity C-	ntrol Doord (CT	DWOCD)	atad May 2009	from Toble A	
	oundwater is a curre				ater Quality Co	nuoi Board (SI	-kwQCB), upd	aicu may 2008,	nom Table A –	
	nental Screening Lev				Vater Quality C	ontrol Roard (S	F-RWOCR) 200	lated May 2009	from Table F1	
	ening Levels for Ev						л -к w QCb), upo	iaicu ividy 2008,	nom rable El –	
	nental Screening Lev						F-RWOCB) 1150	lated May 2008	from Table E1 =	
	ening Levels for Ev							ca 1/1uj 2000,	I Tuole L1 -	
	indicate concentra									
	11: (77.)	unless otherwise	indicated							

Work Plan 0453.W1 TABLE 3
Summary of Offsite Potential TCE Sources

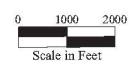
SITE NAME	ADDRESS	DISTANCE & DIRECTION FROM SUBJECT SITE
FORMER D. MERLINO & SONS / FORMER ALITA BRAND	968, 976 81ST AVENUE	200 FEET EAST-NOETHEAST
MACARONI	1001 83RD AVENUE	
FORMER ELMHURST ANODIZING	910 81ST AVENUE	50 FEET NORTH-NORTHWEST
CONTINENTAL PLATING	995 85TH AVENUE	500 FEET EAST-NORTHEAST
AMERICAN CHROME	932 86TH AVENUE	440 FEET SOUTHEAST

FIGURES



Base Map From: US Geological Survey Oakland East, California, and San Leandro, California 7.5-Minute Quadrangles Photorevised 1980

P&D Environmental, Inc. 55 Santa Clara Avenue Oakland, CA 94610



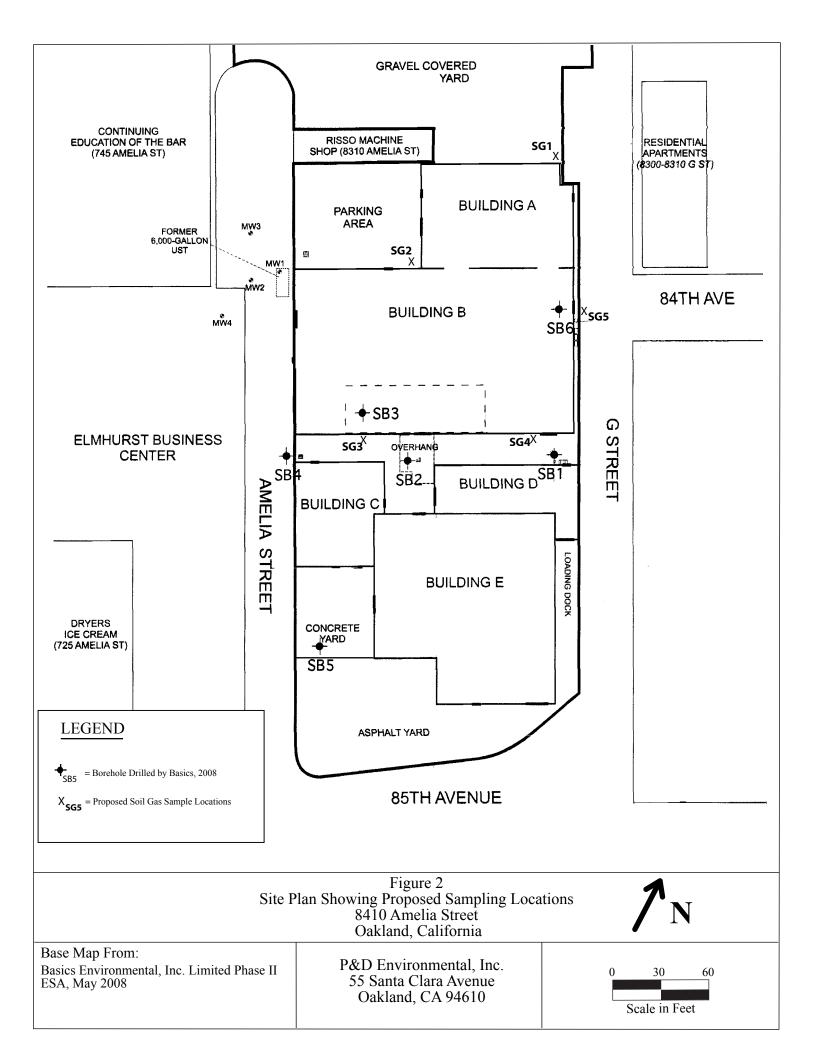




Figure 3 Site Vicinity Map 8410 Amelia Street Oakland, California

Base Map From: Google Earth October 2, 2009

P&D Environmental, Inc. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610

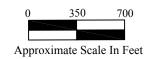




Figure 4 Typical Soil Gas Sampling Manifold 8410 Amelia Street Oakland, California

> P&D Environmental, Inc. 55 Santa Clara Ave., Suite 240 Oakland, CA 94610

APPENDIX A

Selected Information From Fugro West, Inc. September 2008 Final Removal Action Workplan Tassafaronga Village Oakland, California

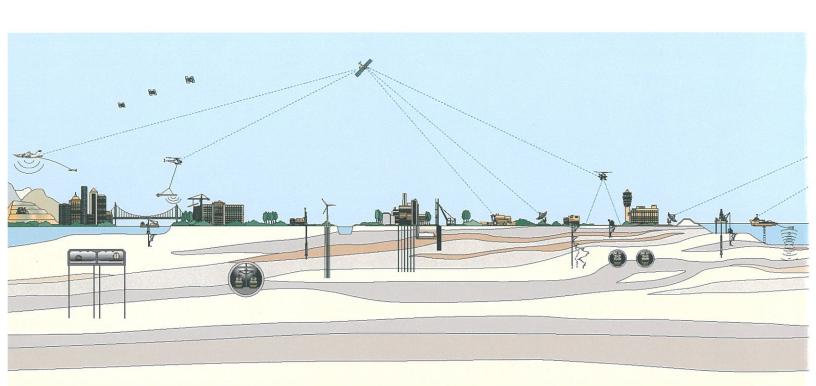


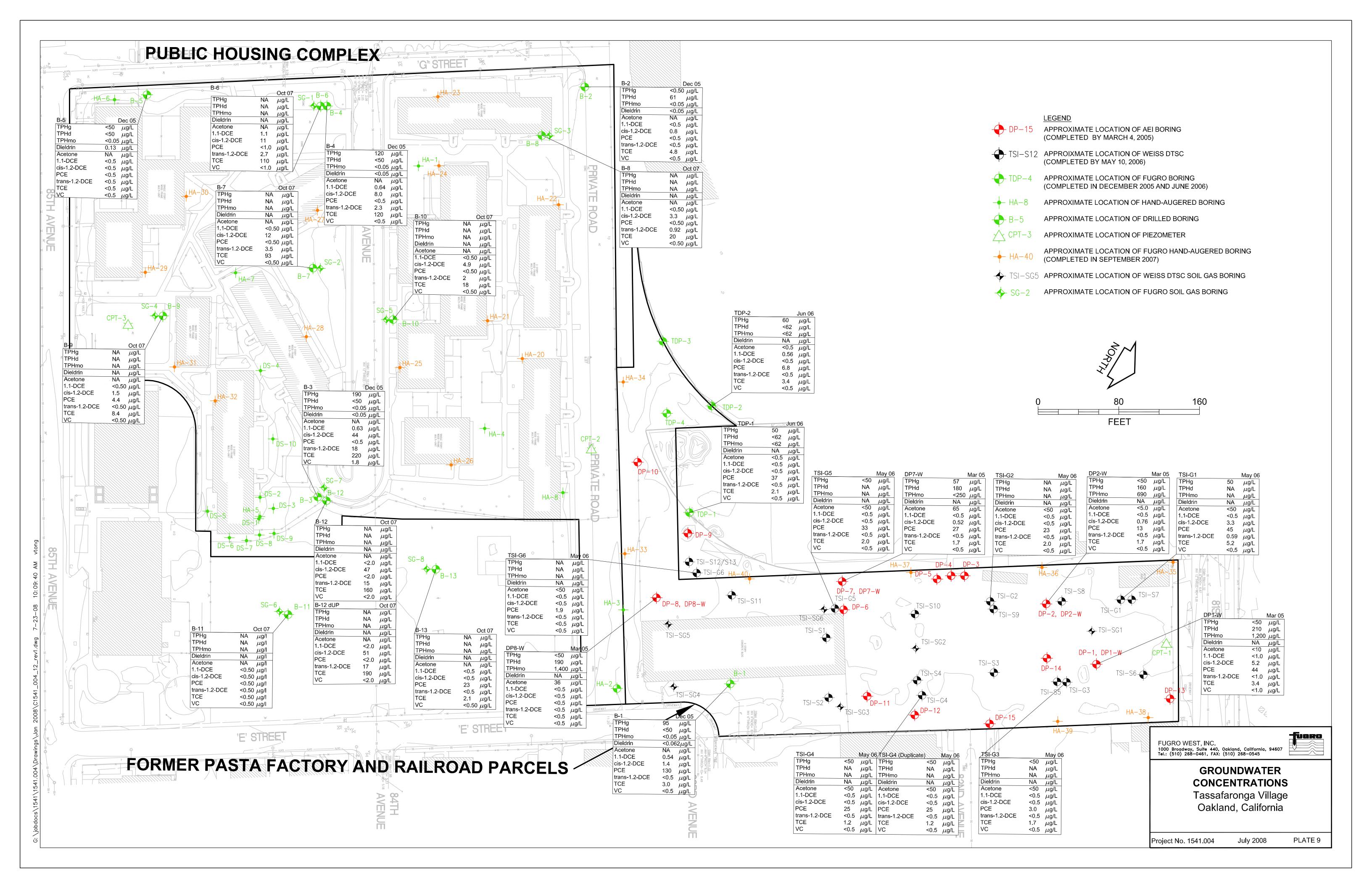
FINAL REMOVAL ACTION WORKPLAN TASSAFARONGA VILLAGE OAKLAND, CALIFORNIA

Prepared for:
OAKLAND HOUSING AUTHORITY

September 2008

Prepared by:
Fugro West, Inc.
1000 Broadway, Suite 440
Oakland, California 94607
Fugro Project No. 1541.004





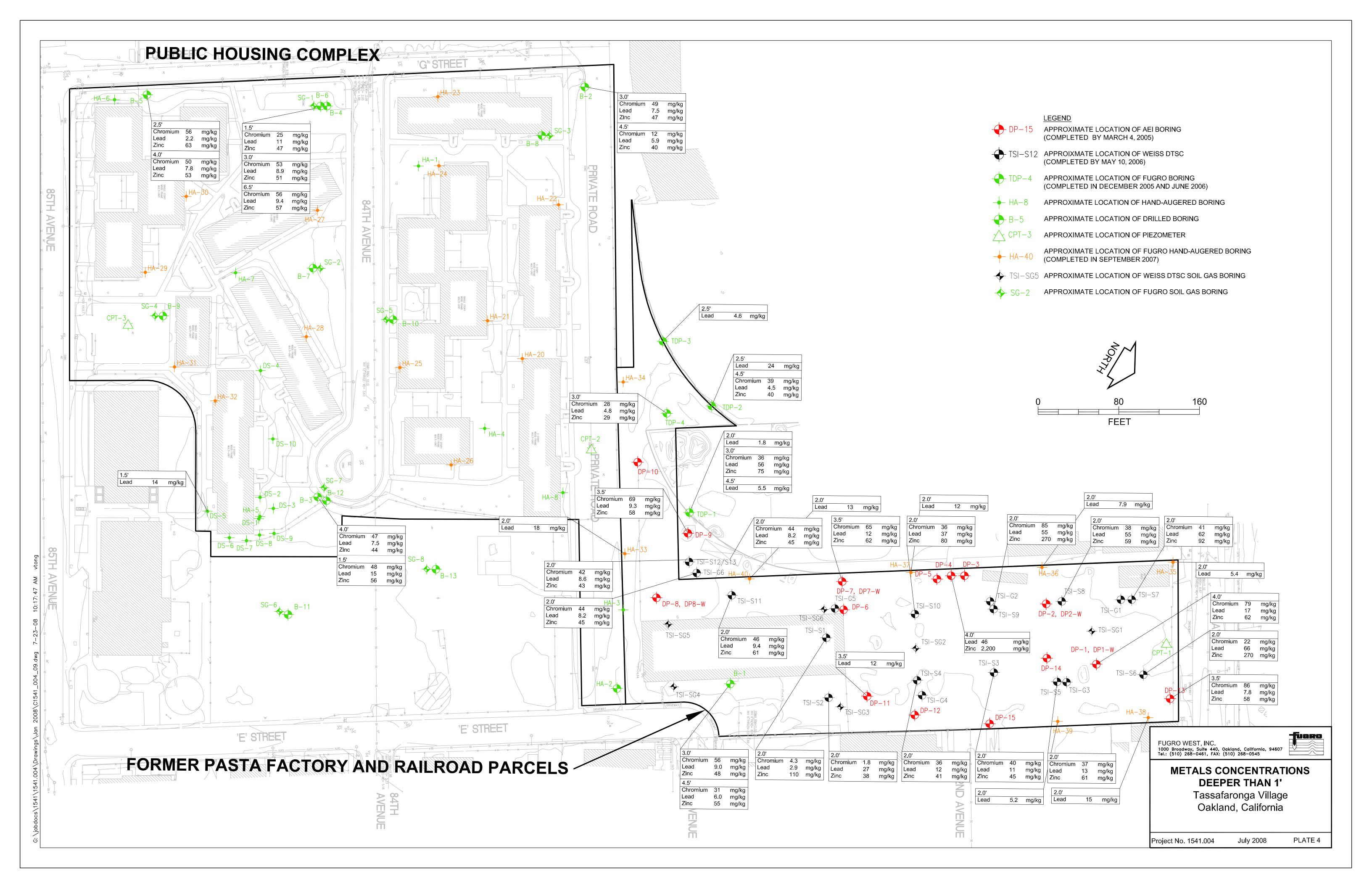


Table 1B Summary of Analytical Results - Grab Groundwater Tassafaronga Village Housing Development Project Oakland, California



				т —												
		Regulatory	Criteria						T	assafaronga H	lousing Comp	olex				
Analyte		ESL (Table F-1b)	MCLs	B-2 ²	B-3 ²	B-4 ²	B-5 ²	B-6	B-7	B-8	B-9	B-10	B-11	B-12	B-12 (DUP)	B-13
				8-Dec-05	8-Dec-05	7-Dec-05	8-Dec-05	9-Oct-07	9-Oct-07	9-Oct-07	9-Oct-07	9-Oct-07	9-Oct-07	9-Oct-07	9-Oct-07	9-Oct-07
Hydrocarbons														B-3	B-3	background
	ug/L	5,000	NE	<50	190	120	<50									
TPHd	ug/L	2,500	NE	61	<50	<50	<50									
TPHmo	ug/L	2,500	NE	< 0.05	< 0.05	< 0.05	< 0.05									
Benzene	ug/L	NA	1	<0.5	<0.5	<0.5	<0.5	<1.0	< 0.50	<0.50	< 0.50	<0.50	<0.50	<2.0	<2.0	<0.50
Toluene	ug/L	NA	150	<0.5	<0.5	<0.5	<0.5	<1.0	< 0.50	<0.50	< 0.50	<0.50	<0.50	<2.0	<2.0	<0.50
Ethylbenzene	ug/L	NA	300	<0.5	<0.5	<0.5	<0.5	<1.0	< 0.50	< 0.50	< 0.50	< 0.50	<0.50	<2.0	<2.0	<0.50
Xylenes	ug/L	NA	1,800	<1.5	<1.5	<1.5	<1.5	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<4.0	<4.0	<1.0
MTBE	ug/L	NA	13	<0.5	<0.5	<0.5	<0.5									
VOCs		NA	varies	ND^4	ND^4	ND^4	ND^4	ND^4	ND^4	ND^4	ND^4	ND^4	ND^4	ND^4	ND^4	ND^4
Acetone	ug/L	NA	6,300													
1,1-Dichloroethene (1,1-DCE)	ug/L	NA	6	<0.5	0.63	0.64	<0.5	1.1	< 0.50	<0.50	< 0.50	< 0.50	<0.50	<2.0	<2.0	<0.50
cis-1,2-Dichloroethene (cis-1,2-DCE)	ug/L	NA	6	0.8	44	8.0	<0.5	11	12	3.3	1.5	4.9	< 0.50	47	51	< 0.50
Tetrachloroethene (PCE)	ug/L	NA	5	< 0.5	<0.5	<0.5	<0.5	<1.0	< 0.50	< 0.50	4.4	< 0.50	< 0.50	<2.0	<2.0	23
trans-1,2-Dichloroethene (trans-1,2-DCE)	ug/L	NA	10	<0.5	18	2.3	<0.5	2.7	3.5	0.92	< 0.50	2	< 0.50	15	17	< 0.50
Trichloroethene (TCE)	ug/L	NA	5	4.8	220	120	<0.5	110	93	20	8.4	18	< 0.50	160	190	2.1
Vinyl Chloride (VC)	ug/L	NA	0.5	<0.5	1.8	<0.5	<0.5	<1.0	< 0.50	<0.50	< 0.50	< 0.50	< 0.50	<2.0	<2.0	<0.50
Pesticides				ND	ND	ND	ND^4									
Dieldrin	ug/L	NA	0.0022	<0.050	<0.050	< 0.050	0.13 ⁵									
	ug/L	NA	15													
Asbestos	%	NA	NE													

Notes:

TPH = Total Petroleum Hydrocarbons

TVHg = Total Volatile Hydrocarbons as gasoline

TPHd = Total Petroleum Hydrocarbons as diesel

Detected concentrations are shown in **Bold**

< = not detected at or above the listed analytical reporting limit

-- = Not Analyzed

ug/L = micrograms per liter

ND = Not Detected

NE = Not Established

NA= Not Applicable

- ¹ = samples collected by AEI Consultants
- ² = samples collected by Fugro West, Inc.
- ³ = Samples collected by Weiss Associates
- ⁴ = Not Detected except for constituents listed below
- ⁵ = Sampled was not filtered prior to analyses
- ⁶ = Sampled was filtered prior to analyses

Table F-1b:Groundwater Screening Levels for groundwater that is not a drinking water source

ESL= Environmental Screening Levels Established by The Regional Water Quality Control Board and updated 2007

MCL =Maximum Contaminant Levels Established by the Environmental Protection Agency

Oakland Housing Authority July 2008

Table 2B Summary of Analytical Results - Grab Groundwater Tassafaronga Village Housing Development Project Oakland, California



		Regulatory	Criteria						Former Pa	sta Factory a	and Industria	al Rail Spurs	}				
Analyte		ESL (Table F-1b)	MCLs	DP1-W ¹	DP2-W ¹	DP7-W ¹	DP8-W ¹	B-1 ²	TSI-G1 ³	TSI-G2 ³	TSI-G3 ³	TSI-G4 ³	TSI-G4 ³ (dup)	TSI-G5 ³	TSI-G6 ³	TDP-1 ²	TDP-2 ²
				4-Mar-05	4-Mar-05	4-Mar-05	4-Mar-05	7-Dec-05	9-May-06	9-May-06	9-May-06	9-May-06	9-May-06	9-May-06	10-May-06	10-Jun-06	10-Jun-06
Hydrocarbons															offsite	offsite	
TVHg	ug/L	5,000	NE	<50	<50	57	<50	95	50		<50	<50	<50	<50		50	60
TPHd	ug/L	2,500	NE	210	160	180	190	<50								<62	<62
TPHmo	ug/L	2,500	NE	1,200	690	<250	1,400	<0.05								<62	<62
Benzene	ug/L	NA	1	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Toluene	ug/L	NA	150	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Ethylbenzene	ug/L	NA NA	300	<1.0	<0.5	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Xylenes	ug/L	NA NA	1,800 13	<1.0 <1.0	<0.5	11 0.68	<0.5 <0.5	<1.5 <0.5	<1.0 <0.5	<1.0 <0.5	<1.0 <0.5	<1.0 <0.5	<1.0 <0.5	<1.0 <0.5	<1.0 <5.0	<1.5 <0.5	<1.5
MTBE	ug/L				1.0												<0.5
VOCs		NA	varies	ND ⁴	ND ⁴	ND ⁴	ND⁴	ND ⁴	ND ⁴	ND ⁴	ND ⁴	ND ⁴	ND ⁴	ND⁴	ND ⁴	ND ⁴	ND ⁴
	ug/L	NA	6,300	<10	<5.0	65	36		<50	<50	<50	<50	<50	<50	<50	<0.5	<0.5
1,1-Dichloroethene (1,1-DCE)	ug/L	NA	6	<1.0	<0.5	<0.5	<0.5	0.54	< 0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.56
cis-1,2-Dichloroethene (cis-1,2-DCE)	ug/L	NA	6	5.2	0.76	0.52	<0.5	1.4	3.3	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Tetrachloroethene (PCE)	ug/L	NA	5	44	13	27	<0.5	130	45	23	3.0	27	25	33	1.9	37	6.8
trans-1,2-Dichloroethene (trans-1,2-DCE)	ug/L	NA	10	<1.0	<0.5	<0.5	<0.5	<0.5	0.59	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Trichloroethene (TCE)	ug/L	NA	5	3.4	1.7	1.7	<0.5	3.0	5.2	2.0	1.7	1.2	1.2	2.0	<0.5	2.1	3.4
Vinyl Chloride (VC)	ug/L	NA	0.5	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Pesticides								ND									
Dieldrin	ug/L	NA	0.0022					<0.062									
Lead	ug/L	NA	15						2.7 ⁶	<2.0	<2.0	<2.0	<2.0	<2.0			
Asbestos	%	NA	NE			-			ND								

Notes:

TPH = Total Petroleum Hydrocarbons

TVHg = Total Volatile Hydrocarbons as gasoline

TPHd = Total Petroleum Hydrocarbons as diesel

Detected concentrations are shown in Bold

< = not detected at or above the listed analytical reporting limit

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³ = Samples collected by Weiss Associates

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Table F-1b:Groundwater Screening Levels for groundwater that is not a drinking water source

ESL= Environmental Screening Levels Established by The Regional Water Quality Control Board and updated 2007

MCL =Maximum Contaminant Levels Established by the Environmental Protection Agency

Summary of Analytical Results - Soil Gas Tassafaronga Village Housing Development Project Oakland, California



	D 1	0.111.		Tassafaronga Housing Complex																	
	Regulator	y Criteria								Ias	ssatarong	a Housing C	omplex								
	CHHSLS's Table 2	ESLs Table E-2																	C	Quality Con	itrol
Analyte	Residential (ug/m³)	Residential (ug/m³)	SG	-1	SG-2		s	G-3	so	3-4	S	G-5	so	3- 6	so	3-7	so	3- 8	SG-7 D	uplicate	Trip Blank
Depth			5'			5'		5'		5'		5'	,	5'	ţ	5'	,	5'		5'	
Date			8-Oct	t-07	8-O	ct-07	8-C	ct-07	8-0	ct-07	8-O	ct-07	8-0	ct-07	8-0	ct-07	8-0	ct-07	8-O	ct-07	8-Oct-07
			ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ug/m3
Acetone	NE	660,000	94	223.29	15	35.63	140	332.56	480	1,140.22	350	831.41	280	665.13	76	180.53	140	332.56	78	185.29	< 23.75
Carbon Disulfide	NE	NE	< 10	< 31.14	< 10	< 31.14	< 10	< 31.14	< 41	< 127.68	< 10	< 31.14	< 12	< 37.37	< 10	< 31.14	< 11	< 34.26	< 10	< 31.14	< 31.14
Methylene Chloride	NE	5,200	2.2	7.64	< 2.0	< 6.95	2.5	8.69	< 8.3	< 28.83	2.4	8.34	< 2.4	< 8.34	2.5	8.69	2.6	9.03	2.1	7.3	< 6.95
Bromomethane	NE	1,000	5.0	19.42	< 4.0	< 15.53	5.6	21.75	< 17	< 66.02	5.2	20.19	6.4	24.85	< 4.0	< 15.53	5.6	21.75	4.4	17.09	< 15.53
cis-1,2-Dichloroethene	15,900	7,300	<2.0	<7.93	<2.0	<7.93	<2.0	<7.93	<8.3	<32.91	<2.0	<7.93	<2.4	<9.52	<2.0	<7.93	<2.2	<8.72	<2.0	<7.93	<7.93
Chloromethane	NE	19,000	<4.0	<8.26	<4.0	<8.26	<4.0	<8.26	<17	<35.11	<4.0	<8.26	<4.7	<9.71	<4.0	<8.26	<4.4	<9.09	<4.0	<8.26	<8.26
2-Butanone (Methyl Ethyl Ketone)	NE	1,000,000	< 10	< 29.49	< 10	< 29.49	20	58.98	< 41	< 120.9	19	56.03	28	82.57	13	38.34	16	47.18	10	29.49	< 29.49
Benzene	36.2	84	< 3.0	< 9.58	< 3.0	< 9.58	< 3.0	< 9.58	< 12	< 38.34	< 3.0	< 9.58	< 3.5	< 11.18	< 3.0	< 9.58	< 3.3	< 10.54	< 3.0	< 9.58	< 9.58
Toluene	135,000	63,000	2.4	9.04	< 2.0	< 7.54	2.4	9.04	< 8.3	< 31.28	3.4	12.81	4.0	15.07	2.2	8.29	2.7	10.17	2.2	8.29	< 7.54
Ethylbenzene	NE	210,000	< 2.0	< 8.68	< 2.0	< 8.68	< 2.0	< 8.68	< 8.3	< 36.04	< 2.0	< 8.68	< 2.4	< 10.42	< 2.0	< 8.68	< 2.2	< 9.55	< 2.0	< 8.68	< 8.68
m,p-xylene	317,000	NE	< 4.0	< 17.37	< 4.0	< 17.37	< 4.0	< 17.37	< 17	< 73.82	< 4.0	< 17.37	< 4.7	< 20.41	< 4.0	< 17.37	< 4.4	< 19.11	< 4.0	< 17.37	< 17.37
Total xylenes	NE	21,000	<4.0	<17.37	<4.0	<17.37	<4.0	<17.37	<17	<73.82	<4.0	<17.37	<4.7	<20.41	<4.0	<17.37	<4.4	<19.11	<4.0	<17.37	<17.37
o-xylene	315,000	NE	< 2.0	< 8.68	< 2.0	< 8.68	< 2.0	< 8.68	< 8.3	< 36.04	< 2.0	< 8.68	< 2.4	< 10.42	< 2.0	< 8.68	< 2.2	< 9.55	< 2.0	< 8.68	< 8.68
Styrene	NE	190,000	<2.0	<8.52	<2.0	<8.52	<2.0	<8.52	<8.3	<35.35	<2.0	<8.52	<2.4	<10.22	<2.0	<8.52	<2.2	<9.37	<2.0	<8.52	<8.52
Trichloroethene (TCE)	528	1,200	< 2.0	< 10.75	9.6	51.59	< 2.0	< 10.75	< 8.3	< 44.61	4.2	22.57	< 2.4	< 12.9	5.0	26.87	< 2.2	< 11.82	8.1	43.53	< 10.75
1,1,2-Trichlor-1,2,2-Trifluoroethane	NE	NE	<2.0	<15.33	<2.0	<15.33	<2.0	<15.33	<8.3	<63.61	<2.0	<15.33	<2.4	<18.39	<2.0	<15.33	<2.2	<16.86	<2.0	<15.33	<15.33
1,1-Dichloroethane	NE	1,500	<2.0	<8.1	<2.0	<8.1	<2.0	<8.1	<8.3	<33.6	<2.0	<8.1	<2.4	<9.71	<2.0	<8.1	<2.2	<8.91	<2.0	<8.1	<8.1
1,1-Dichloroethene	NE	49	<2.0	<7.93	<2.0	<7.93	<2.0	<7.93	<8.3	<32.91	<2.0	<7.93	<2.4	<9.52	<2.0	<7.93	<2.2	<8.72	<2.0	<7.93	<7.93
Trichlorofluoromethane	NE	NE	<2.0	NE	<2.0	NE	<2.0	NE	<8.3	NE	<2.0	NE	<2.4	NE	<2.0	NE	<2.2	NE	<2.0	NE	<2.0
4-Methyl-2-pentanone	NE	NE	<10	<40.97	<10	<40.97	<10	<40.97	<41	<167.96	<10	<40.97	<12	<49.16	<10	<40.97	<11	<45.06	<10	<40.97	<40.97
Other VOCs	varies	varies	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Leak Check Compound																					
Isopropylalchohol (2-Propanol)	NE	NE	< 10	< 24.58	< 10	< 24.58	< 10	< 24.58	< 41	< 100.76	< 10	< 24.58	15	36.87	< 10	< 24.58	13	31.95	< 10	< 24.58	<4.9

		Tassafaronga Housing Complex														
									Quality Con	trol						
Analyte	SG-1	Blank														
Depth	5'	5'	5'	5'	-											
Date	8-Oct-07	8-Oct-07	8-Oct-07	8-Oct-07	8-Oct-07	8-Oct-07	8-Oct-07	8-Oct-07	8-Oct-07	8-Oct-07						
	%	%	%	%	%	%	%	%	%	%	%					
Oxygen	19	20	19	21	19	19	20	20	20		20.95					
Carbon Dioxide	0.19	1.4	1.9	0.31	2.5	2.5	1.1	1.1	1.1		0.03					
Methane	0.00052	< 0.00038	< 0.00038	0.00380	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038		0.00					
Nitrogen	1.9	82	82	81	81	82	83	82	83	100	78.08					

Notes

Detected Concentration shown in bold

NE = Not established

ND = Not detected above laboratory reporting limits

-- = Not Analyzed

NA = Not Applicable

* Composition of dry unpolluted air by composition

Table E-2: Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns
CHHSLs = California Human Screening Levels (Janurary 2005)
ESL = Environmental Screening Levels Established by the Regional Water Quality Control Board and updated in November 2007.

Oakland Housing Authority July 2008

Table 2C Summary of Analytical Results - Soil Gas Tassafaronga Village Housing Development Project Oakland, California



	Regulatory	· Criteria					Former	Pasta Fac	ctory and	l Industrial	Railroa	d Spur				
	CHHSLS's Table 2	ESLs Table E-2													Qualit	y Control
Analyte	Residential (ug/m³)	Residential (ug/m³)	TSI-	SG1	TSI-	SG2	TSI	-SG3	TSI	-SG4	TSI	-SG5	TSI	-SG6	TS	-SG7 ¹
Depth			;	5'	5	5'		5'		5'		5'		5'		5'
Date			8-Ma	ay-06	8-Ma	ay-06	8-M	ay-06	8-M	ay-06	8-M	lay-06	8-M	ay-06	8-N	1ay-06
			ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3	ppbv	ug/m3
				_	• •	_		_		_		_		_		_
Acetone	NE	660,000	530	1258.99	250	593.87	230	546.36	370	878.92	170	403.83	160	380.07	160	380.07
Carbon Disulfide	NE	NE	<10	<31.14	<10	<31.14	<10	<31.14	<10	<31.14	16	49.83	17	52.94	<10	<31.14
Methylene Chloride	NE	5,200	<2.0	<6.95	<2.0	<6.95	<2.0	<6.95	<2.0	<6.95	<2.0	<6.95	<2.0	<6.95	<2.0	<6.95
Bromomethane	NE	1,000	<2.0	<7.77	<2.0	<7.77	<2.0	<7.77	<2.0	<7.77	<2.0	<7.77	<2.0	<7.77	<2.0	<7.77
cis-1,2-Dichloroethene	15,900	7,300	<2.0	<7.93	<2.0	<7.93	<2.0	<7.93	9.3	36.87	<2.0	<7.93	<2.0	<7.93	<2.0	<7.93
Chloromethane	NE	19,000	5.0	10.33	<4.0	<8.26	<4.0	<8.26	<4.0	<8.26	<4.0	<8.26	<4.0	<8.26	<4.0	<8.26
2-Butanone (Methyl Ethyl Ketone)	NE	1,000,000	100	294.89	37	109.11	23	67.82	27	79.62	12	35.39	12	35.39	25	73.72
Benzene	36.2	84	35	111.81	31	99.04	13	41.53	7.2	23	3.8	12.14	7.4	23.64	7.4	23.64
Toluene	135,000	63,000	25	94.20	22	82.90	13	48.99	12	45.22	8.8	33.16	9.3	35.04	11	41.45
Ethylbenzene	NE	210,000	6.1	26.49	4.1	17.8	16	69.47	2.1	9.12	<2.0	<8.68	<2.0	<8.68	3.0	13.03
m,p-xylene	317,000	NE	12	52.11	12	52.11	43	186.72	6.2	26.92	5.0	21.71	5.3	23.01	11	47.77
Total xylenes	NE	21,000	17	73.82	17	73.82	62	269.22	8.3	36.04	5.0	21.71	7.4	32.13	16	69.48
o-xylene	315,000	NE	5.1	22.15	5.0	21.71	18	78.16	2.1	9.12	<2.0	<8.68	2	8.68	4.9	21.28
styrene	NE	190,000	2	8.52	<2.0	<8.52	<2.0	<8.52	<2.0	<8.52	<2.0	<8.52	<2.0	<8.52	<2.0	<8.52
Trichloroethene (TCE)	528	1,200	<2.0	<10.75	<2.0	<10.75	<2.0	<10.75	<2.0	<10.75	<2.0	<10.75	<2.0	<10.75	<2.0	<10.75
1,1,2-Trichlor-1,2,2-Trifluoroethane	NE	NE	25	191.61	43	329.56	4.4	33.72	2.5	19.16	<2.0	<15.33	4.8	36.79	3.6	27.59
1,1-Dichloroethane	NE	1,500	<2.0	<8.1	<2.0	<8.1	<2.0	<8.1	2.2	8.91	<2.0	<8.1	<2.0	<8.1	<2.0	<8.1
1,1-Dichloroethene	NE	49	<2.0	<7.93	<2.0	<7.93	<2.0	<7.93	3.3	13.09	<2.0	<7.93	<2.0	<7.93	<2.0	<7.93
Trichlorofluoromethane	NE	NE	120	NE	25	NE	<2.0	NE	3.1	NE	<2.0	NE	2.3	NE	2.0	NE
4-Methyl-2-pentanone	NE	NE	10	40.97	<10	<40.97	<10	<40.97	<10	<40.97	<10	<40.97	<10	<40.97	<10	<40.97
Other VOCs	varies	varies	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Leak Check Compound																
Isopropylalchohol (2-Propanol)	NE	NE	13	31.95	<10	<24.58	62	152.38	<10	<24.58	<10	<24.58	<10	<24.58	<10	<24.58

Notes

Detected Concentration shown in bold

NE = Not established

ND = Not detected above laboratory reporting limits

-- = Not Analyzed

NA = Not Applicable

Table E-2: Shallow Soil Gas Screening Levels for Evaluation of Potential Vapor Intrusion Concerns

CHHSLs = California Human Screening Levels (January 2005)

ESL = Environmental Screening Levels Established by the Regional Water Quality Control Board and updated in November 2007.

^{*} Composition of dry unpolluted air by composition