

April 30, 1998

Mr. Rod Freitag County of Alameda General Services Agency 1401 Lakeside Drive, 11th Floor Oakland, California 94612

Subject:

SUBSURFACE INVESTIGATION REPORT,

SANTA RITA PROPERTY - PARCEL 15, DUBLIN, CALIFORNIA.

Versar Project Number: 4128-001

Dear Mr. Freitag:

Versar, Inc. (Versar) is pleased to submit to the County of Alameda General Services Agency (GSA) this letter reporting the results of the subsurface investigation conducted at Parcel 15, Santa Rita Property, Dublin, California (Site, Figure 1). The scope of work and field activities conducted were based on Versar's *Technical Proposal for Subsurface Investigation*, Santa Rita Property - Parcel 15, Dublin, California, dated March 24, 1998. This report includes a background of the Site, the scope of work and field activities conducted, the laboratory analyses performed on the soil and groundwater samples collected, and the findings in regards to the existing conditions at the Site.

Versar conducted the project in three phases: Phase I - Permitting and Boring and Sampling Plan Preparation; Phase II - Subsurface Investigations for Underground Storage Tanks (UST's); and Phase III - Soil/Groundwater Assessment. All work was performed in accordance with the Alameda County Flood Control - Zone 7 permitting requirements.

BACKGROUND

Versar understands that, during a recent Phase II investigation conducted by People Soft in preparation for purchase of Parcel 16, tetrachloroethene (PCE) and trichloroethylene (TCE) were detected in groundwater samples collected along the southern boundary of Parcel 15. Versar also understands that Parcel 15 once contained amongst other Department of Defense facilities associated with Camp Parks, two service stations, a transportation shop, a paint shop, and a laundry with a boiler room on the Site. The purpose of this investigation was to assess the presence of any UST's on Parcel 15, and to verify the presence and extent, if any, of PCE and TCE within the shallow groundwater at Parcel 15.

5259-98/4128-001/Apr 2498



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In March 1998, Erler & Kalinowski, Inc. conducted a Phase II Site Assessment at Parcel 16. Six grab groundwater samples were collected and analyzed for total petroleum hydrocarbons as diesel (TPH-d), benzene, toluene, ethylbenzene, and total xylenes (BTEX), and volatile organic compounds (VOCs). Two groundwater samples (P-3 and P-4) contained PCE at concentrations of 83 and 100 micrograms per liter (μ g/l), respectively. The groundwater sample from P-4 also contained 4.2 μ g/l of TCE. Sample locations P-3 and P-4 are located downgradient from Parcel 15.

SCOPE OF WORK

The results of Versar's activities conducted for this project are summarized below.

Phase I - Permitting and Boring and Sampling Plan Preparation

Versar obtained permits from Alameda County Flood Control - Zone 7 (Zone 7) for drilling at Parcel 15. No other permits were required.

Versar prepared a boring and sampling plan for GSA's review and approval. A site-specific health and safety plan (HSP), complying with Federal and California Occupational Safety and Health Administration (Cal-OSHA) requirements, was completed during this phase of the project. The HSP was prepared in accordance with the requirements of the 29 Code of Federal Regulations (CFR) and Cal-OSHA Title 8, Section 5. The HSP was developed to aid in ensuring that safe work practices were followed by site personnel and to identify emergency contingency plans.

Phase II - Subsurface Investigation for UST

To locate UST's remaining on Parcel 15 from previous Site use, Versar subcontracted California Utility Surveys (CUS), a professional geophysical surveyor, to locate any USTs using remote sensing equipment. The survey was performed with the goal of locating a UST of 250 gallon capacity or greater. The remote sensing equipment was comprised of a magnetometer and was performed in a gridded search pattern on a 5-foot by 10-foot grid.

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On April 7, 1998, CUS conducted the geophysical survey at the Site. Two areas of the Site could not be accurately surveyed by CUS. One of these areas was covered with a large concrete pad and could not be surveyed due to the high degree of interference commonly associated with steel rebar within the concrete. The other area could not be surveyed because large amounts of fill had been placed over the native soil making any determination of the presence or absence of underground tanks at the target depth impossible.

Four anomalies were detected by CUS which required additional investigation: 1) possible railroad tracks detected in the northwest area of Parcel 15; 2) an 8-foot by 30-foot anomaly, possibly a large tank detected in the southwest corner of Parcel 15; and two other anomalies detected in the southern area of Parcel 15 (see Attachment I for anomaly locations).

On April 9, 1998, Versar subcontracted Kvaerner Aronson, Inc. (KAI) to investigate the four anomalies which required additional investigation at the Site. The anomalies were investigated by pot-holing in the anomaly locations using a backhoe equipped with a 3-foot bucket. The following is a summary of Versar's findings:

- 1) CUS depicted the first anomaly as a linear east-west trending structure which was identified as a potential buried railroad track. A pothole was advanced at the approximate midpoint of the linear anomaly. A 1-1/2 inch iron pipe was encountered at approximately 2 ft bgs. The pipe ran in an east-west direction which approximated the markings made by CUS.
- CUS depicted the second anomaly as an approximate 8-foot by 30-foot subsurface structure that was possibly one or several underground tanks. During advancement of a pothole at the eastern edge of this anomaly, what appeared to be groundwater was encountered at a depth of 18-24 inches below ground surface. Further investigation revealed the presence of what appeared to be an underground concrete drainage structure overlain with corrugated steel covers, which was coincident with the location of a former roadway. The channel structure was full of water at the time of the pot-holing. The channels were approximately 2 feet deep and extended to a total depth of approximately 4 feet bgs.
- 3) The third anomaly was discovered to be an approximately 2-foot x 3-foot piece of corrugated steel located approximately 6 inches bgs.
- 4) Pot-holing at the location of the fourth anomaly was stopped at a depth of approximately

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7½ feet bgs. No metallic structures were found at this location. The soil within the pothole appeared to be native and it was concluded that no USTs were present at this location.

The locations of the four subsurface anomalies that were investigated and the areas that were not investigated are presented in Attachment I.

Phase III - Investigation of the Extent of Chlorinated Solvent Contaminant Plume

Field Activities

On April 9, 1998, Versar subcontracted Enprobe to provide direct-push drilling services for the assessment of the extent of the contaminant plume at Parcel 15. The assessment was performed using Geoprobe®-type, hydraulic-push sampling technology (Geoprobe). Investigation of plume extent included the collection of grab groundwater samples and one soil sample from nine boreholes, and subsequent chemical analysis of each sample for volatile organic compounds (VOCs) by USEPA Method 8260. A tenth proposed borehole could not be completed because muddy conditions at the Site prevented the Geoprobe rig from gaining access to that location. The nine boring locations are presented on the attached Figure 2.

Borehole locations were based on information provided to Versar by GSA regarding the boundaries of Parcel 15 and the location of former facilities on the Parcel. In addition, the locations where VOCs were detected on the adjoining property boundaries are depicted on Figure 2 and were considered in locating Versar's boreholes. The borehole distribution, as presented, was based on the location of Site facilities which may have used VOCs, the boundaries of the property, and the potential for off-Site VOCs to be entering the Site from the north, west, and northeast.

Soil boring BH-1 was continuously cored in order to determine the groundwater and soil sample depths. The continuous core boring was also completed to extrapolate geologic data for the remaining boring locations. Soil samples were collected in acetate tubing used with the depth discrete geoprobe sampler. 1-foot and ½-foot samples were retained for chemical analysis and the remaining sample used for geologic logging of the borehole. Groundwater samples were collected by either installing a temporary stainless-steel slotted casing inside the open borehole and retrieving the sample with a peristaltic pump, or retrieving the groundwater sample with a disposable bailer directly from the open borehole. Boring BH-1 was sampled by installing a temporary PVC slotted casing equipped with an outer filtration sock.



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Soil samples retained for chemical analysis were prepared immediately upon retrieval. The sample sleeves were covered at the ends with TeflonTM sheets, capped with plastic end-caps, labeled, and placed in a cooler chilled with ice at 4°C pending transportation to a certified California Department of Health Services (DHS) laboratory. Groundwater samples collected in 40-milliliter glass vials, labeled, sealed in plastic bags, and placed in a cooler with ice pending transport to a certified California DHS laboratory. Subsurface samples were collected under the direction of a California-registered Geologist and transported under chain-of-custody protocol.

Analytical Results

The soil and groundwater samples were transported to McCampbell Analytical, Inc. in Pacheco, California. The samples were analyzed for volatile organic compounds by EPA Method 8260.

Soil

PCE was detected at a concentration of 33 micrograms per kilogram (μ g/kg) in the soil sample collected at 14-14.5 feet bgs from boring BH-9. All other soil samples were non-detect (ND) for PCE, TCE, and other VOC's. See attached Figure 2 for boring locations.

Groundwater

TCE was detected in the groundwater samples collected from borings BH-1, BH-4, and BH-6. TCE was detected in concentrations ranging from 1.0 to 2.5 μ g/l. PCE was detected in the groundwater samples collected from borings BH-1, BH-6, BH-7, and BH-9. PCE was detected in concentrations ranging from 2.2 to 280 μ g/l. Carbon Tetrachloride was detected in groundwater samples collected from borings BH-1, BH-4, BH-6, and BH-7. Carbon Tetrachloride was detected in concentrations ranging from 1.3 to 17 μ g/l. Chloroform was detected in groundwater samples collected from borings BH-1, BH-4, BH-6, and BH-7. Chloroform was detected in concentrations ranging from 4.5 to 21 μ g/l. See attached Figure 2 for boring locations.

Analytical results for the soil and groundwater samples collected are summarized in Tables 1 and 2. The laboratory analytical report is included as Attachment II.



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CONCLUSIONS AND RECOMMENDATIONS

The results of this investigation indicate that PCE and TCE are present in groundwater in the southern portion of the Site. Additionally, one soil sample contained PCE on the south side of Building 299 near a former laundry and paint shop. Carbon Tetrachloride and Chloroform were detected in the general areas of Buildings 468 and 468A, formerly transportation shops and a service station. Concentrations of PCE, TCE, carbon tetrachloride and chloroform in groundwater exceed State MCLs at one or more locations at the Site. No subsurface structures that resembled UST's were confirmed through pot-holing at locations identified in the subsurface magnetometer survey. The detections of PCE, TCE, carbon tetrachloride and chloroform may be related to historical Site use by the military in the 1940s and 1950s. Another possible source of these contaminants could be the sanitary sewer line that runs in an east-west direction along the southern Site boundary.

Versar recommends that Alameda County General Services Agency notify the Alameda County Health Care Services Agency, Environmental Health Services, of the presence of the detected chemicals in groundwater at the Site; notification is required by the federal Clean Water Act; the State Porter-Cologne Water Quality Control Act; and the State Water Code, Section 13271. Versar recommends further investigation be performed in the southern portion of the Site to identify the source and further delineate the extent of solvent contamination in soil and groundwater at the Site, focussing of Buildings 299, 297B, 468, and 468A, as well as the sanitary sewer in the southern portion of the Site.

Versar

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Versar appreciates this opportunity to provide environmental consulting services to GSA. If you have any questions about this report or any of the attachments, please contact Michael Stephenson at (510) 814-5922 or Mr. Tim Berger at (916) 863-9323.

Sincerely,

Michael J. Stephenson

Sr. Associate Environmental Scientist

Project Manager

Tim Berger, R.G., H.G.

Supervising Geoscientist

Environmental Management Division

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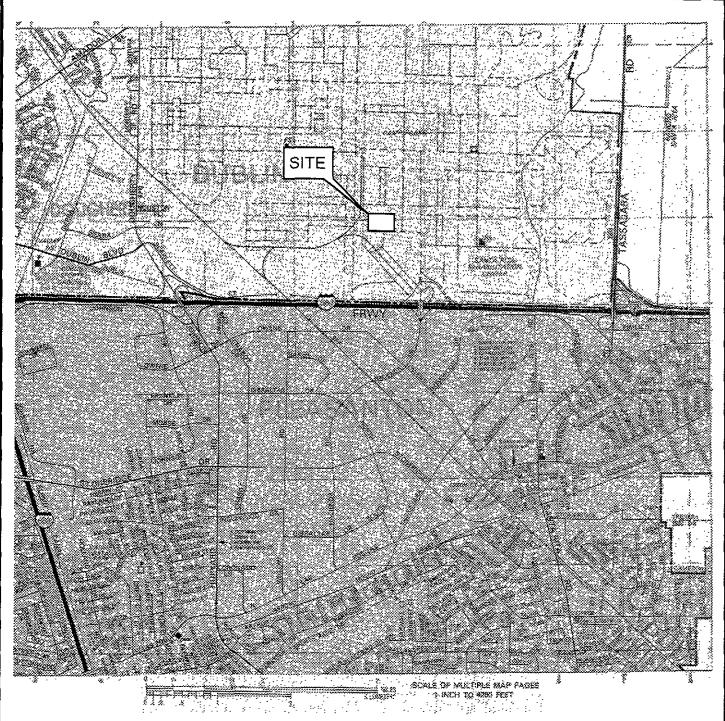
Attachment: Figures 1 and 2

Tables 1 and 2 Boring Logs

I - Subsurface Geophysical Survey Report

II - Laboratory Analytical Report





Modified from Thomas Guides Street map by Michael

Date: 4/21/98

Project No.: 4128-001

Werser.

7844 Madison Ave. Suite 167 Fair Oaks, CA 95628 (916) 962-1612 Site Location Map
Santa Rita Property - Parcel 15
Dublin, California

FIG 1

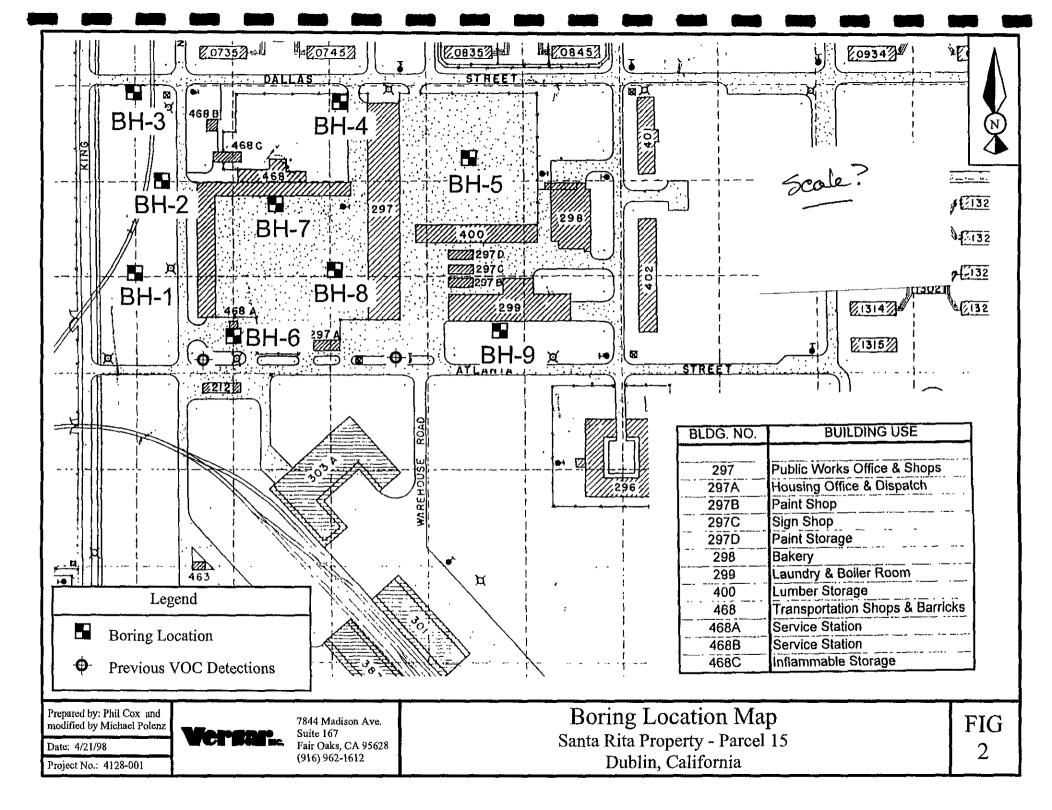




	Table 1				
Santa F	tita Property - Parcel 15				
Results from Lab	ooratory Analysis of S	Soil Samples			
	Compound and Con-	centration (µg/kg)			
Sample Location and Depth	Tetrachloroethene (PCE)	Trichloroethene (TCE)			
BH1 (10'-11')	<10	<5			
BH2 (16'-17')	<10	<5			
ВНЗ (17'-18')	<10	<5			
BH4 (13.5'-14.5')	<10	<5			
BH5 (15'-16')	<10	<5			
BH6 (11'-12')	<10	<5			
BH7 (13'-14')	<10	<5			
BH8 (17'-18')	<10	<5			
BH9 (14'-14.5')	33	<5			

Note: Only detected compoounds are reported.

μg/kg = micrograms per kilogram



		Table 2		
	Santa	Rita Property - Parce	l 15	
	Results from Labora	atory Analysis of Grou	indwater Samples	
		Compound and Conc	entration (µg/L)	
Sample Location	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Carbon Tetrachloride	Chloroform
BH1	24	1.0	4.2	5.3
ВН2	<1	<1	<1	<1
ВН3	<1	<1	<1	<1
ВН4	<1	1.1	1.3	5.1
ВН5	<1	<1	<1	<1
ВН6	120	2.5	17	21
BH7	2.2	<1	1.5	4.5
ВН8	25	<1	<1	<1
BH9	280	<1	<1	<1

Note: Only detected compoounds are reported.

 μ g/L = micrograms per liter

SYMBOL	LETTER	DESCRIPTION		MAJOR DIVIS	SIONS	
	GW	WELL-GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	CLEAN GRAVELS	წ ⋜		
	GP	POORLY-GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	(LITTLE OR NO FINES)	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE THON, THE 114" SIZE TANT TO THE NO. 4	∾ តក	
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	OL	ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY			VED S OF MAS D. 200 S	0, 20(LEST
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	СН	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	SILTS A	ND CLAYS GREATER THAN 50)	FINE GRAINED SOILS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO, 200 SIEVE SIZE	F- 07
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WELL CONSTRUCTION SYMBOLS

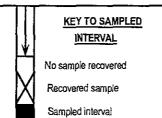


BENTONITE

SAND

SCREEN

CEMENT



submitted to laboratory.

TYPES OF SAMPLERS

SPT Standard Penetration 1.4" ID Split Spoon

CS 2" ID Split Spoon Sampler

MC 2.4" ID California Sampler

SH 3.0" ID Thin-Wall (Shelby Tube)

2.7" ID Double Tube Continuous Coring Sampler

NOTES

ND Denotes concentration below the test detection limits

Denotes not analyzed

PID Photoionization Detector Reading in ppm



1255 Harbor Bay Pkwy, Suite 100 Alameda, CA 94502 (510) 814-5900 **LEGEND FOR BORING LOGS**

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Versar Inc.	DRILLIN	GLOG	PROJECT NO. 4128-001		
Supervising Geologist: Tim Berger	5	Site Name: Santa Ri	ta - Alameda County		
Log By: M. Polenz		Boring No: BH-4			
Date: 4/9/98	E	Boring Diameter: 1-7/8 inch - largebore, discrete sampler			
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COLOR,		, SECONDARY POF	RAVEL, SANDS, FINES ROSITY, ODORS, STAINING	Headspace (ppm)	
to coar			50% fine gravel, 40% medium oad bed fill material.		
4 V 1.5'-9' dense, 9'-13. dense	firm, no odor noted	l, no staining noted	ery fine sand, brown, moist, d.		
brow:	, moist, very dense	, no odor noted, n		NR	
18 V End of sample boreho	boring at 18'. Groe collected by using the collected by the collected	ial (sandy CLAY) undwater at 9' after a disposable baile nits shown are ext	(discrete sampler); upon at top of sampler. er drilling. Groundwater er in the uncased open trapolated from BH-1 except this or adjacent borings.		
22					

ן,											4139 001		
		_	_		sar				DRILLI	ING LOG PROJECT NO. 4128-001			
				Geolo		Ti	m Be	rger			ita - Alameda County		
				I. Pol	enz					Boring No: BH-5			
			/9/9							Boring Diameter: 1-7/8 inch - largebore, discrete sampler			
	-			tracto		Enpr				Boring Depth: 16-fe Boring Location: Se			
				ic. N		ee figure							
1				Geop									
Dr	ille	r:	De	nnis	and (ieor	ge			L JSCS SOIL DESCRIPT	TON	 _	
			Sample	ĀĀ	ction					ON AND GEOLOGIC I		(ig	
Depth (ft)	Advanced/	Recovered	Laboratory Sa	First Water/ Water Table	Well Construction	USCS Group	Lithology	COLOR,		ΓΥ, SECONDARY PO	RAVEL, SANDS, FINES ROSITY, ODORS, STAINING	I Headspace (ppm)	
					NA	CL				rately sorted, 50% of no odor noted, no	clay, 45% silt, 5% very fine		
2								sand, e	uark brown, moist	, no odor noted, no	staining noted.		
						СН			-	ay, 35% silt, 5% ver ed, no staining note	ry fine sand, brown, moist,		
4	Y		-										
6				<u>-</u>									
8 10									5' fat CLAY, 60%, no odor noted, no	- ·	5% fine sand, brown, moist,		
12	V								,	J			
14			V			CL			• •	AY, 50% clay, 30% se, no odor noted, n	% fine sand, 20% silt, olive no staining noted.	NR	
16 18	V			Ţ			//	sample boreho	e collected by usir ole. The geologic	ng a disposable bail units shown are ex	efter drilling. Groundwater er in the uncased open trapolated from BH-1 except this or adjacent borings.	INK	
20 22													

1				Vei	rsar	Inc			DRILLI	NG LOG	PROJECT NO. 4128-001		
Si	рег	vis	ing	Geol	ogist:	Ti	m Be	rger		Site Name: Santa Rita - Alameda County			
Lo	g E	y:	N	i. Pol	enz					Boring No: BH-6			
D	ite:	4	1/9/	98						Boring Diameter: 1-	-7/8 inch - largebore, discrete sample		
Di	illi	ng (Cor	itracto	or:	Enpr	ob			Boring Depth: 18-fe	eet		
C	ntr	acto	or L	ic. N	o. C	257-0	55650)4		Boring Location: Se	ee figure		
Ri	g T	ype	<u>:</u>	Geop	robe								
Dı	ille	τ:	Dε	nnis	and (Беог	ge						
		İ	nple	ŽĀ	tion					ISCS SOIL DESCRIPT ON AND GEOLOGIC II		(E)	
Depth (ft)	Advanced/	Recovered	Laboratory Sai	First Water/ Water Table	Well Construction	USCS Group	Lithology	COLOR,		TY, SECONDARY POI	RAVEL, SANDS, FINES ROSITY, ODORS, STAINING	Headspace (ppm)	
					NA	CL		0'-2' s	silty CLAY, mode	rately sorted, 50% of	clay, 30% silt, 20% very fine		
\int_{γ}										moist, very dense, 1	no odor noted, no staining		
		H				СН		110100,	1111 1111111111111111111111111111111111				
1						Cn							
4	¥	Ц		-	ļ			21 101	fot CT AV 600/ o	lov, 250/ gilt 50/ rr	and fine and brown moist		
7									•	ed, no staining note	ery fine sand, brown, moist,		
6								donso,	11111, 110 0401 11000	, no stanting note	· · ·		
U	H	Н											
1				W	1								
8	¥			-									
7													
10													
10	+							10'-12	' fat CLAY 70%	clay 30% silt med	ium to dark brown, slightly		
										lor noted, no stainir	· · ·	, , ,	
12	¥		М					ĺ	-	-	-	NR	
]				İ					-	-	brown, slightly moist (lighter		
1 1				į				color t	than overlaying lay	ver), very dense, no	odor noted, no staining noted.		
<u>14</u>		+											
ł			, [
16	$ \downarrow $			V									
				-									
:		Ì											
18	V												
20								sampl steel s	e collected by usin creen. The geolog	ig a peristaltic pum gic units shown are	ofter drilling. Groundwater p inside a temporary stainless extrapolated from BH-1 e from this or adjacent borings.		
22											· · · · · · · · · · · · · · · · · · ·		

'[Vei	rsar	Inc			DRILLI	NG LOG	PROJECT NO.	4128-001		
Sı	цре	ervi	sing	Geole	ogist:	Ti	m Be	rger		Site Name: Santa Rita - Alameda County				
L	og.	By:	N	1. Pol	enz			····		Boring No: BH-7				
D	ate	:	4/9/	98						Boring Diameter: 1-7/8 inch - largebore, discrete sampler				
D	rill	ing	Cor	ntracto	or: I	inpr	ob			Boring Depth: 19-fe	eet			
C	ont	rac	tor I	.ic. N	o. <u>C</u>	57-	65650)4		Boring Location: Se	ee figure			
R	ig '	Γνρ	e:	Geop	тobe			·				··		
D	rill	er:	De	ennis :	and C	eor	ge							
			Sample	ĀĀ	ction					JSCS SOIL DESCRIPT ON AND GEOLOGIC I		T	(F)	
Depth (ft)	A dynamod/	Auvanceu/ Recovered	Laboratory Sa	First Water/ Water Table	Well Construction	USCS Group	Lithology	COLOR,		RTING, PERCENT: GI IY, SECONDARY PO M, BEDROCK			Headspace (ppm)	
	П				NA	CL		0'-2' s	silty CLAY, moder	rately sorted, 50%	lay, 30% silt, 2	0% very fine		
2									dark olive brown, i fill material.	moist, very dense,	no odor noted, n	o staining		
	H													
						СН			• • • • • • • • • • • • • • • • • • •	ıy, 35% silt, 5% ve	<u> </u>	wn, moist,		
4	N	4_						dense,	firm, no odor note	ed, no staining note	d.		 	
6								5'-13'	lithology SAA wi	th occasional grave	el fragments.			
8	1	7		<u>-</u>										
<u>10</u>		-												
12		<u>/</u>												
14		7	X	<u> </u>				13'-16	5' soil softens sligi	htly, advanced sam	pler (discrete) 1	3'-15'.	NR	
<u>16</u>	V	/		<u>^</u>				16'-19	' fat CLAY, 70%	clay, 30% silt, oliv	e green, moist,	very dense,		
<u>18</u>		,						no ode	or noted, no stainin	ng noted.				
End of boring at 19'. sample collected by a borehole. The geologadditional stratigraph										ng a disposable bail units are extrapola	er in the uncase ted from BH-1 e	d open except where		

			Vei	rsar	Inc			DRILLI	NG LOG	PROJECT NO. 4128-001	-	
Su	pervi	ising	Geol	ogist:	Ti	m Be	erger		Site Name: Santa Rita - Alameda County			
Lo	g By	: N	1. Pol	lenz			·		Boring No: BH-8			
Da	te:	4/9/	98						Boring Diameter: 1-7/8 inch - largebore, discrete sampler			
Dr	illing	g Co	ntract	or:	Enpr	ďo	- <u>-</u>		Boring Depth: 18-feet			
C₀	ntrac	tor I	Lic. N	o. C	<u> 57-</u>	6565	04	·	Boring Location: Se	ee figure		
Ri	g Tyr	oe:	Geor	robe								
Dr	iller:	D	ennis	and (ieor	ge						
		Sample	ĀĀ	tion					JSCS SOIL DESCRIPT ON AND GEOLOGIC I		(iii	
Depth (ft)	Advanced/		First Water/ Water Table	Well Construction	USCS Group	Lithology	COLOR,		ΓΥ, SECONDARY PO	RAVEL, SANDS, FINES ROSITY, ODORS, STAINING	Headspace (ppm)	
2				NA	CL		sand,	•	•	clay, 30% silt, 20% very fine no odor noted, no staining		
4					СН		•	•	lay, 35% silt, 5% ved, no staining note	ery fine sand, brown, moist, d.		
6 8	V		Ā									
12								•	clay, 30% silt, med ed, no staining note	lium brown, slightly moist, ed.		
14	V				CL				%clay, 40% silt, 5% lor noted, no staining	% very fine sand, olive green, ng noted.		
<u>16</u>							fragm	ents, olive green, 1	· · ·	clay, <30% silt, <2% rock or noted, no staining noted,		
18	¥	X	査				(of wh	• •	% medium grained)	lt, 30% very fine sand , olive green, moist, dense	NR	
20 22							sample boreho	e collected by using ole. The geologic additional stratign	ig a disposable bail units shown are ex	fter drilling. Groundwater er in the uncased open trapolated from BH-1 except ailable from this or adjacent		

	,		Ve	rsar	Inc			DRILLI	NG LOG	PROJECT NO. 4128-001	
Supervising Geologist: Tim Berger				Site Name: Santa Rita - Alameda County							
Log	Log By: M. Polenz						Boring No: BH-9				
Dat	e:	4/9	/98						Boring Diameter: 1	-7/8 inch - largebore, discrete sample	<u>- </u>
Dri	lling	g Co	ntract	or: 1	Enpr	<u>ob</u>			Boring Depth: 16-fe	eet	
Cor	atrac	ctor	Lic. N	o. C	257 <u>-</u> 6	55650)4		Boring Location: Se	ee figure	
Rig	Tyr	oe:	Geor	торе							
Dri	ller:	D	ennis	and (ieor	ge					
		Sample	ĀĀ	tion					JSCS SOIL DESCRIPT ON AND GEOLOGIC I		Ê
Depth (ft)	Advanced/		First Water/ Water Table	Well Construction	USCS Group	Lithology	COLOR,		TY, SECONDARY PO	RAVEL, SANDS, FINES ROSITY, ODORS, STAINING	Headspace (ppm)
2				NA	CL		sand,	•	•	clay, 30% silt, 20% very fine no odor noted, no staining	
4 \\ 6 \\ 8 \\ 10 \\ 12 \\ 14					СН	2'-10' fat CLAY, 60% clay, 35% silt, 5% very fine sand, brown, moist, dense, firm, no odor noted, no staining noted. 10'-14' fat CLAY, 70%clay, 30% silt, medium brown, slightly moist, very dense, no odor noted, no staining noted.					
16 18 20		 	\$		CL		fragm rock f End o	ents, olive green, ragments (<15mm f boring at 16'. Gree collected by using the collected b	moist, dense, no od diameter, subangu coundwater at 9.9' a	or noted, no staining noted, alar, white). after drilling. Groundwater ler in the uncased open	NR



ATTACHMENT I



Date April 12, 1998
VERSAR INC.
1255 Harbor Bay Parkway
Suite 100
Alameda, CA 94501
Attn;Mike Stevenson

RECEIVED
APR 3 0 198

SUBJECT: SITE REPORT OF SURVEY.

A surface geophysical survey was carried out at the project site consisting of approximately 12 acres of property adjacent to Hacienda and Dublin Blvd., in the city of Dublin, California. The survey was performed during April 2 and April 7 in the year 1998.

A full survey was completed over the site using both Electromagnetic Induction and Magnetometer instrumentation. The grid pattern used was on a 10 foot by 5 foot grid matrix.

Several anomalies were identified as possible excavation sites. These sites were indicated on the scaled figure provided to the client under separate cover.

Two of these sites were identified as possible areas of buried small tanks or drums. One site on the South west corner of the property approximately 30 feet by 8 feet, was identified as a possible area of a large tank or tanks.

The final area was identified as the site of possible buried rail tracks or similar.

An area of concrete foundation, approximately 50 feet by 100 feet was unable to be surveyed with a definite conclusion due to heavy steel re-enforcement which caused a blanket signal over the whole area.

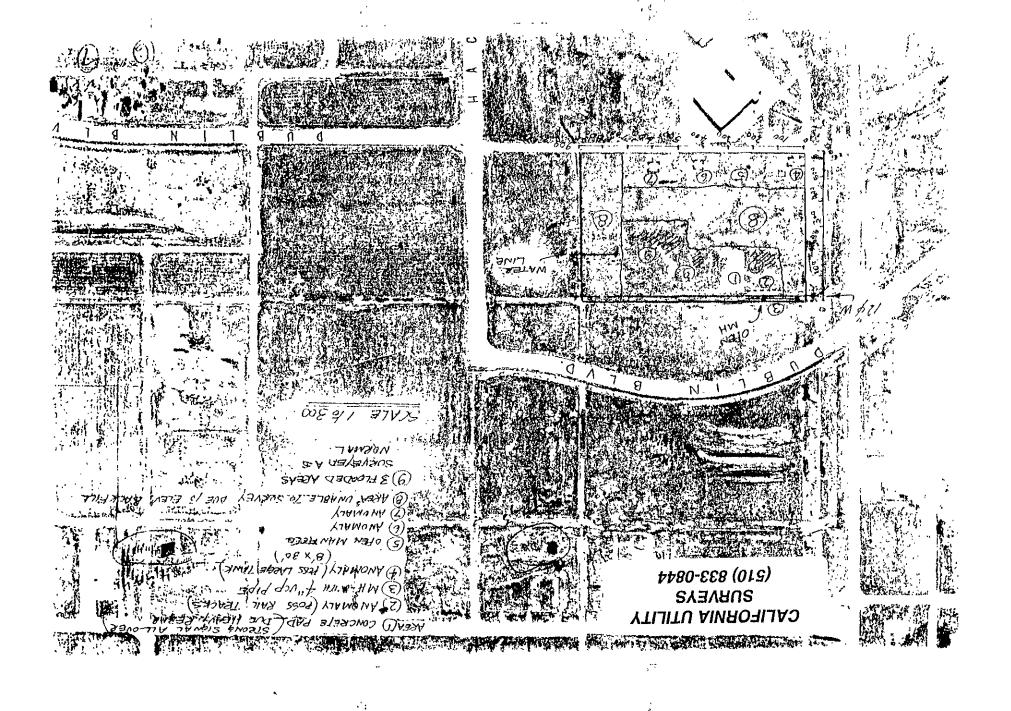
A large strip of the property running down the center and a second strip along the eastern end was surveyed but, as it was pointed out on site, that due to spoil heaps of backfil material measuring an average of 8 feet above grade it was not possible to determine the existence of buried tankage.

Several open structures were located which were reported as possible storm drain catch basins that had been filled with soil to about 2 feet from the top. No pipelines associated with these structures were able to be located due to lack of access.

A main water line was designated running east to west along the edge of the property. A second water line was designated from an abandoned hydrant on the western edge of the property.

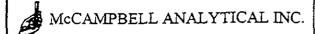
Signed on behalf of California Utility Surveys

J. Keith Williams (Owner)





ATTACHMENT II



110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Versar, Inc	Client Project ID: #4128-001; Sta Rita	Date Sampled: 04/09/98	
1255 Harbor Bay Pkwy, #100	Parcel 15-Alameda Co. GSA	Date Received: 04/10/98	
Alameda, CA 94502	Client Contact: Michael Poland	Date Extracted: 04/10/98	
	Client P.O:	Date Analyzed: 04/10/98	

04/17/98

Dear Michael:

Enclosed are:

- 1). the results of 17 samples from your #4128-001; Sta Rita Parcel 15-Alameda Co. GSA project,
- 2). a QC report for the above samples
- 3), a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Edward Hamilton, Lab Director

110 Second Avenue South, #D7, Pacheco, CA 94553 Telephone 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com/E-mail: main@mccampbell.com/

Versar, Inc	Client Project ID: #4128-001; Sta Rita	Date Sampled: 04/09/98	
1255 Harbor Bay Pkwy, #100	Parcel 15-Alameda Co. GSA	Date Received: 04/10/98	
Alameda, CA 94502	Client Contact: Michael Poland	Date Extracted: 04/14/98	
1	Client P.O:	Date Analyzed: 04/14/98	

Volatile Organics By GC/MS

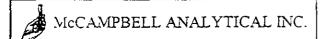
87948

EPA method	8260	
	Lab ID	

Acetone	LabiD		6/246				
Compound Concentration* Compound Concentration* Receive ND ND Compound Concentration* Receive ND ND Ethylbenzere ND Receive ND Hexachlorobutadrene ND Receive ND Isopropylbenzere ND Receive ND Isopropylbenzere ND Receive ND Isopropylbenzere ND Receive ND P-Isopropylbenzere ND Receive ND Methyl ketyl ketyne "ND Receive ND Methyl signification "ND Receive ND Methyl signification "ND Receive ND Methyl isopropylbenzere ND Receive ND Methyl isopropylbenzere ND Receive ND Methyl isopropylbenzere ND Receive ND Methyl isopropylbenzere ND Receive ND Methyl isopropylbenzere ND Receive ND Methyl isopropylbenzere ND Receive ND Methyl isopropylbenzere ND Receive		•					
Acetone P	Matrix						
Benzene	Compound	Concentration*	Compound	Concentration*			
Bromobenzene ND Iodomethane ND Bromochloromethane ND Isopropylbenzene ND Bromochloromethane ND Isopropylenzene ND ND Bromofichioromethane ND P-Isopropyl toluene ND ND Methyl buryl ketone " ND ND Methyl buryl ketone " ND ND Methyl buryl ketone " ND ND Methyl benzene ND Methyl sobutyl ketone " ND ND Methyl sobutyl ketone " ND Methyl sobutyl ketone " ND Methyl sobutyl ketone " ND Methyl sobutyl ketone " ND Methyl sobutyl ketone " ND Methyl sobutyl ketone " ND ND Methyl sobutyl ketone " ND ND Methyl sobutyl ketone " ND ND Methyl sobutyl ketone " ND ND Methyl sobutyl ketone " ND ND ND ND ND ND ND	Acetone 16)	ND<2.5	Ethylbenzene				
Spromochloromethane	Benzene	ND	Hexachlorobutadiene	ND			
Bromodichloromethane	Bromobenzene	ND	Iodomethane	ND			
Bromoform	Bromochloromethane	ND	Isopropylbenzene				
No.	Bromodichloromethane	ND					
n-Butyl benzene ND Methyl ethyl ketone " ND sec-Buyl benzene ND Methyl sobutyl ketone " ND Letr-Butyl benzene ND Methyl tert-Butyl Ether (MTBE) — Carbon Dsulfide ND Naphthalene ND Carbon Tetrachloride 4.2 n-Propyl benzene ND Chloroethane ND Styrene " ND Chloroethane ND 1,1.1.2-Tetrachloroethane ND Chloroethyl Vinyl Ether " ND 1,1.2.2-Tetrachloroethane ND Chloroethyl Vinyl Ether " ND 1,1.2.2-Tetrachloroethane ND Chlorotorethyl Vinyl Ether " ND 1,1.2.2-Tetrachloroethane ND Chlorotorethyl Vinyl Ether " ND 1,1.2.2-Tetrachloroethane ND Chlorotorethyl Vinyl Ether " ND 1,1.2.2-Tetrachloroethane ND Chlorotoluene ND 1,1.2.2-Tetrachloroethane ND Chlorotoluene ND 1,2.3-Trichlorobenzene ND ND 1,1.2-Trichloroethane ND ND	Bromoform	ND		ND			
sec-Butyl benzene ND Methyl isobutyl ketone § ND tert-Butyl benzene ND Methyl tert-Butyl Ether (MTBE) — Carbon Disulfide ND Naphthalene ND Carbon Tetrachlorde 4.2 n-Propyl benzene ND Chlorobenzene ND Styrene N ND Chlorosthane ND 1,1.1.2.2-Tetrachloroethane ND Chlorosthane ND 1,1.1.2.2-Tetrachloroethane ND Chloroform 5.3 Tetrachloroethane ND Chlorotoluene ND Toluene ND ND Chlorotoluene ND 1.2.3-Trichlorobenzene ND Dibromochloromethane ND 1.1.1-Trichloroebnzene ND Dibromoral-chloromethane ND 1.1.1-Trichloroethane ND 1,2-Dichlorobenzene ND 1.1.2-Trichloroethane ND 1,2-Dichlorobenzene ND 1.2.3-Trichlorofluoromethane ND 1,4-Dichlorobenzene ND 1.2.3-Trichloropropane ND 1,1-Dichloroethane ND	Bromomethane	ND		ND			
tert-Butyl benzene ND Methyl tert-Butyl Ether (MTBE) — Carbon Disulfide ND Naphthalene ND Carbon Tetrachloride 4.2 n-Propyl benzene ND Chlorobenzene ND Styrene '' ND Chlorothane ND 1,1.1.2-Tetrachloroethane ND Chlorothane ND 1,1.2.2-Tetrachloroethane ND Chlorotorom 5.3 Tetrachloroethane ND Chlorotoromethane ND 10.2.2-Tetrachloroethane ND Chlorotoluene ND 1.2.3-Truchlorobenzene ND V-Chlorotoluene ND 1.2.4-Truchlorobenzene ND Dibromochloromethane ND 1.1.1-Truchloroethane ND ND 1.1.2-Truchloroethane ND ND Dibromomethane ND Truchloroethane ND 1.2-Dichlorobenzene ND Truchloroethane ND ND Truchloroethane ND ND 1.1-Dichloroethane ND Vinyl Acetae ND	n-Butyl benzene	ND		ND			
Carbon Disulfide ND Naphthalene ND Carbon Tetrachloride 4.2 n-Propyl benzene ND Chloroetrane ND Styrene ND Chloroethane ND 1.1.1.2-Tetrachloroethane ND 2-Chloroethyl Vinyl Ether** ND 1.1.2.2-Tetrachloroethane ND Chloroethyl Vinyl Ether** ND 1.1.2.2-Tetrachloroethane ND Chloroform 5.3 Tetrachloroethane ND Chloroform ND Toluene*** ND Chlorotoluene ND 1.2.3-Trichlorobenzene ND ND 1.2.3-Trichlorobenzene ND ND Dibromochloromethane ND 1.1.1-Trichloroethane ND 1.2-Dichlorobenzene ND Trichloroethane ND 1.2-Dichlorobenzene ND Trichloroethane ND 1.3-Dichloroethane ND 1.2.3-Trichloropropane ND 1.4-Dichloroethane ND 1.2.4-Trimethylbenzene ND ND 1.3-5-Trichloropropane ND	sec-Butyl benzene	ND		ND			
Carbon Fetrachionde	tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBE)	1			
ND Styrene Styrene Styr	· · · · · · · · · · · · · ·	ND	Naphthalene				
Chloroethane	Carbon Tetrachloride	4.2		U			
2-Chloroethyl Vinyl Ether* ND 1.1.2.2-Terrachloroethane ND Chloroform 5.3 Tetrachloroethane ND Chlorofoluene ND Toluene*** ND 2-Chlorofoluene ND 1.2.3-Trichlorobenzene ND 4-Chlorofoluene ND 1.2.4-Trichlorobenzene ND Dibromochloromethane ND 1.1.1-Trichloroethane ND 1,2-Dibromoc-3-chloropropane ND 1.1.2-Trichloroethane ND 1,2-Dichlorobenzene ND Trichloroethane ND 1,2-Dichlorobenzene ND Trichlorofluoromethane ND 1,4-Dichlorobenzene ND 1.2.4-Trimethylbenzene ND 1,4-Dichloroethane ND 1.3.5-Trimethylbenzene ND 1,1-Dichloroethane ND Vinyl Acetae*** ND 1,1-Dichloroethane ND Vinyl Chloride*** ND 1,1-Dichloroethene ND Xylenes, total *** ND 1,1-Dichloroethene ND Xylenes, total *** ND 1,2-Dichloropropane <td< td=""><td>Chlorobenzene</td><td>ND</td><td></td><td></td></td<>	Chlorobenzene	ND					
Chlorotorm	Chloroethane	ND	1,1.1.2-Tetrachloroethane	ND			
Chlorotoluene	2-Chloroethyl Vinyl Ether e	ND	1.1.2.2-Tetrachloroethane	ND			
2-Chlorotoluene ND 1,2,3-Trichlorobenzene ND 4-Chlorotoluene ND 1,2,4-Trichlorobenzene ND Dibromochloromethane ND 1,1,1-Trichloroethane ND 1,2-Dibromo-3-chloropropane ND 1,1,2-Trichloroethane ND Dibromomethane ND Trichloroethane ND 1,2-Dichlorobenzene ND Trichlorofluoromethane ND 1,3-Dichlorobenzene ND 1,2,3-Trichloropropane ND 1,4-Dichlorobenzene ND 1,2,4-Trimethylbenzene ND Dichlorodifluoromethane ND 1,3,5-Trimethylbenzene ND 1,1-Dichloroethane ND Vinyl Acetate **** ND 1,2-Dichloroethane ND Vinyl Chloride *** ND 1,1-Dichloroethene ND Xylenes, total *** ND 1,1-Dichloroethene ND Xylenes, total *** ND 1,2-Dichloropropane ND ND ND 1,2-Dichloropropane ND Surrogate Recoveries (%) 1,1-Dichloropropene ND	Chloroform	5.3	4	24			
A-Chlorotoluene	Chloromethane	ND	£				
Dibromochloromethane	2-Chlorotoluene	ND	(· · · · · · · · · · · · · · · · · · ·				
1,2-Dichloropropane	4-Chlorotoluene	ND	1,2,4-Trichlorobenzene	π			
Dibromomethane	Dibromochloromethane	ND	1.1.1-Trichloroethane				
1,2-Dichlorobenzene ND Trichlorofluoromethane ND 1,3-Dichlorobenzene ND 1,2,3-Trichloropropane ND 1,4-Dichlorobenzene ND 1,2,4-Trimethylbenzene ND Dichlorodifluoromethane ND 1,3,5-Trimethylbenzene ND 1,1-Dichloroethane ND Vinyl Acetate (***) ND 1,2-Dichloroethane ND Vinyl Chloride (***) ND 1,1-Dichloroethene ND Xylenes, total (***) ND 1,2-Dichloroethene ND ND ND 1,2-Dichloropropane ND ND ND 1,3-Dichloropropane ND Comments: ND 1,1-Dichloropropene ND Surrogate Recoveries (%) cis-1,3-Dichloropropene ND Dibromofluoromethane 108 trans-1,3-Dichloropropene ND Toluene-d8 99	1,2-Dibromo-3-chloropropane	ND	1				
1,3-Dichlorobenzene ND 1,2,3-Trichloropropane ND 1,4-Dichlorobenzene ND 1,2,4-Trimethylbenzene ND Drehlorodifluoromethane ND 1,3,5-Trimethylbenzene ND 1,1-Dichloroethane ND Vinyl Acetate **********************************	Dibromomethane	ND	Trichloroethene	1.0			
1,4-Dichlorobenzene	1,2-Dichlorobenzene	ND	Trichlorofluoromethane	ND			
Dichlorodifluoromethane	1.3-Dichlorobenzene	ND	1,2,3-Trichloropropane	ND			
1,1-Dichloroethane	I,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND			
1,2-Dichloroethane ND Vinyl Chloride "" ND 1,1-Dichloroethene ND Xylenes, total " ND cis-1,2-Dichloroethene ND Image: ND Imag	Dichlorodifluoromethane	ND		ND			
1,1-Dichloroethene ND Xylenes, total ND cis-1,2-Dichloroethene ND Image: ND Image:	1,1-Dichloroethane	ND					
Cis-1,2-Dichloroethene	1,2-Dichloroethane	ND	Vinyl Chloride '''	ND			
trans-1,2-Dichloroethene ND 1,2-Dichloropropane ND 1,3-Dichloropropane ND 2,2-Dichloropropane ND 2,2-Dichloropropane ND 1,1-Dichloropropene ND cis-1,3-Dichloropropene ND Dibromofluoromethane 108 trans-1,3-Dichloropropene ND Toluene-d8 99	1,1-Dichloroethene	ND	Xylenes, total "	ND			
1,2-Dichloropropane ND 1,3-Dichloropropane ND 2,2-Dichloropropane ND 2,2-Dichloropropane ND 1,1-Dichloropropene ND cis-1,3-Dichloropropene ND Dibromofluoromethane 108 trans-1,3-Dichloropropene ND Toluene-d8 99	cis-1,2-Dichloroethene	ND					
1,3-Dichloropropane ND 2,2-Dichloropropane ND 1,1-Dichloropropene ND cis-1,3-Dichloropropene ND bibromofluoromethane 108 trans-1,3-Dichloropropene ND Toluene-d8 99	trans-1,2-Dichloroethene	ND					
2,2-Dichloropropane ND Comments: 1,1-Dichloropropene ND Surrogate Recoveries (%) cis-1,3-Dichloropropene ND Dibromofluoromethane 108 trans-1,3-Dichloropropene ND Toluene-d8 99	1,2-Dichloropropane	ND					
1,1-Dichloropropene ND Surrogate Recoveries (%) cis-1,3-Dichloropropene ND Dibromofluoromethane 108 trans-1,3-Dichloropropene ND Toluene-d8 99	1,3-Dichloropropane	ND					
cis-1,3-Dichloropropene ND Dibromofluoromethane 108 trans-1,3-Dichloropropene ND Toluene-d8 99	2,2-Dichloropropane	ND	Comments:				
trans-1,3-Dichloropropene ND Toluene-d8 99	1,1-Dichloropropene	ND	Surrogate Recoveries (%	(v)			
tiziis-1,5-Diemotopiopene 14D Totalene-de	cis-1,3-Dichloropropene	ND	Dibromofluoromethane	· · · · · · · · · · · · · · · · · · ·			
		ND	Toluene-d8	1 ''			
Ethylene dibromide ND 4-Bromofluorobenzene 98	Ethylene dibromide	ND	4-Bromofluorobenzene	98			

^{*}water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L, solid and sludge samples 5.0 ug/kg; wipes 0.2 ug/wipe ND means not detected above the reporting limit, N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene. (d) 2-bevanone. (e) dichloromethane: (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment. (j) sample diluted due to high organic content, (k) peaks present in this carbon range do not match the pattern of our standard for this analyte. (l) methylbenzene; (m) acetic acid ethenyl ester: (n) chloroethene. (o) dimethylbenzenes.



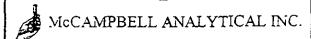
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Telephone 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Versar, Inc	Client Project ID: #4128-001; Sta Rita	Date Sampled: 04/09/98
1255 Harbor Bay Pkwy, #100	Parcel 15-Alameda Co. GSA	Date Received: 04/10/98
Alameda, CA 94502	Client Contact: Michael Poland	Date Extracted: 04/10/98
	Client P.O:	Date Analyzed: 04/13/98
	Volatile Organies Pr. CCMS	

	Vola	tile Organics By GC/MS	
EPA method \$260		87949	
Client ID		8H1-Soil	
		S S	
Matrix	<u> </u>	3	
Compound	Concentration*	Compound	Concentration*
Acetone (8)	ND<15	Ethylbenzene	ND
Benzene	ND	Hexachlorobutadiene	ND
Bromobenzene	ND	Iodomethane	ND
Bromochioromethane	ND	Isopropylbenzene	ND
Bromodichloromethane	ND	p-Isopropyl toluene	ND
Bromoform	ND	Methyl butyl ketone di	ND
Bromomethane	ND	Methylene Chloride	ND<10
n-Buryl benzene	ND	Methyl ethyl ketone	ND
sec-Butyl benzene	ND	Methyl isobutyl ketone g	ND
tert-Butvl benzene	ND	Methyl tert-Butyl Ether (MTBE)	
Carbon Disulfide	ND	Naphthalene	ND
Carbon Tetrachloride	ND	n-Propyl benzene	ND
Chlorobenzene	ND	Styrene (x)	ND
Chloroethane	ND	1,1,1,2-Tetrachloroethane	ND
2-Chloroethyl Vinyl Ether ^(c)	ND	1.1.2.2-Tetrachloroethane	ND
Chloroform	ND	Tetrachloroethene	ND<10
Chloromethane	ND ND	Toluene 1	ND
2-Chlorotoluene	ND ND	1.2.3-Trichlorobenzene	ND
4-Chlorotoluene	ND	1.2.4-Trichlorobenzene	ND
Dibromochloromethane	ND ND	1.1.1-Trichloroethane	ND
1,2-Dibromo-3-chloropropane	ND	1.1.2-Trichloroethane	ND
Dibromomethane	ND	Trichloroethene	ND ON
1.2-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,3-Dichlorobenzene	ND ND	1.2.3-Trichloropropane	ND
I.4-Dichlorobenzene	ND ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND ND	1,3,5-Trimethylbenzene	ND
	ND	Vinyl Acetate ""	ND ND
1,1-Dichloroethane		Vinyl Chloride ""	ND ND
1,2-Dichloroethane	ND	* · · · · · · · · · · · · · · · · · · ·	ND ND
1,1-Dichloroethene	ND	Xylenes, total '6'	ND
cis-1,2-Dichloroethene	ND		
trans-1.2-Dichloroethene	ND		
1,2-Dichloropropane	ND		
1,3-Dichloropropane	ND		
2,2-Dichloropropane	ND	Comments:	
1,I-Dichloropropene	ND	Surrogate Recoveries (%)	
cis-1,3-Dichloropropene	ND	Dibromofluoromethane	90
trans-1.3-Dichloropropene	ND	Toluene-d8	85
Ethylene dibromide	ND	4-Bromofluorobenzene	88

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L; solid and sludge samples 5.0 ug/kg, wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present. (i) liquid sample that contains greater than ~5 vol. % sediment. (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene. (o) dimethylbenzenes.



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Versar. Inc	Client Project ID: #4128-001; Sta Rita	Date Sampled: 04/09/98				
1255 Harbor Bay Pkwy, #100	Parcel 15-Alameda Co. GSA	Date Received: 04/10/98				
Alameda, CA 94502	Client Contact: Michael Poland	Date Extracted: 04/14/98				
	Client P.O:	Date Analyzed: 04/14/98				
Volatile Organics By GC/MS						

87950

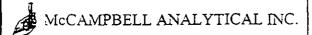
ED A	method	8260	
:1 A	metitoa	0400	

Lab ID

Lab ID	BH2-Water					
Client ID	W W					
Matrix	W					
Compound	Concentration*	Compound	Concentration*			
Acetone (a)	ND<2.5	Ethylbenzene	ND			
Benzene	ND	Hexachlorobutadiene	ND			
Bromobenzene	ND	Iodomethane	ND			
Bromochloromethane	ND	Isopropylbenzene	ND			
Bromodichloromethane	ND	p-Isopropyl toluene	ND			
Bromoform	ND	Methyl butyl ketone "	ND			
Bromomethane	ND	Methylene Chloride "	ND			
n-Butyl benzene	ND	Methyl ethyl ketone "	ND			
sec-Butyl benzene	ND	Methyl isobutył ketone 's	ND			
tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBE)				
Carbon Disulfide	ND	Naphthalene	ND			
Carbon Tetrachloride	ND	n-Propyl benzene	ND			
Chlorobenzene	ND	Styrene 'K'	ND			
Chloroethane	ND	1,1,1,2-Tetrachloroethane	ND			
2-Chloroethyl Vinyl Ether(c)	ND	1,1,2,2-Tetrachloroethane	ND			
Chloroform	ND	Tetrachloroethene	ND			
Chloromethane	ND	Toluene Toluen	ND			
2-Chlorotoluene	ND	1,2.3-Trichlorobenzene	ND			
4-Chlorotoluene	ND	1,2.4-Trichlorobenzene	ND			
Dibromochloromethane	ND	1,1.1-Trichloroethane	ND			
1,2-Dibromo-3-chloropropane	ND	1,1.2-Trichloroethane	ND			
Dibromomethane	ND	Trichloroethene	ND			
1,2-Dichlorobenzene	ND	Trichlorofluoromethane	ND			
1,3-Dichlorobenzene	ND	1,2,3-Trichloropropane	ND			
I,4-Dichlorobenzene	ND	1,2.4-Trimethylbenzene	ND			
Dichlorodifluoromethane	ND	1,3.5-Trimethylbenzene	ND			
1,1-Dichloroethane	ND	Vinyl Acetate ""	ND			
1,2-Dichloroethane	ND	Vinyl Chloride "'	ND			
I,I-Dichloroethene	ND	Xylenes, total '67	ND			
cis-1,2-Dichloroethene	ND					
trans-1,2-Dichloroethene	ND					
1,2-Dichloropropane	ND					
1,3-Dichloropropane	ND					
2,2-Dichloropropane	ND	Comments:				
1,1-Dichloropropene	ND	Surrogate Recoveries				
cis-1,3-Dichloropropene	ND	Dibromofluoiomethane	98			
trans-1,3-Dichloropropene	ND	Toluene-d8	99			
Ethylene dibrornide	ND	4-Bromofluorobenzene	99			

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L, solid and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or directhyl ketone; (c) (2-chloroethoxy) ethene, (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present. (i) liquid sample that contains greater than ~5 vol % sediment; (j) sample diluted due to high organic content; (k) peaks present in this curbon range do not match the pattern of our standard for this analyse; (1) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene, (o) dimethylbenzenes



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	Client Projec	Client Project ID: #4128-001; Sta Rita Parcel 15-Alameda Co. GSA Date Sampled: 04 Date Received: 04		/09/98
Versar, Inc				L/10/98
1255 Harbor Bay Pkwy, #10	ρ [
Alameda, CA 94502	Client Conta	ct: Michael Poland	Date Extracted: 04	4/10/98
	Client P.O:		Date Analyzed: 04	4/13/98
	Vola	tile Organics By GC/MS		
EPA method 8260				
Lab ID		87951		
Client ID		BH2-Soil		
Matrix		\$		
Compound	Concentration*	Сотро	ınd	Concentration*
Acetone (b)	ND<15	Ethylbenzene		ND
Benzene	ND	Hexachlorobutadiene		ND
Bromobenzene	ND	Iodomethane		ND
Bromochloromethane	ND	Isopropylbenzene		ND
Bromodichloromethane	ND	p-Isopropyl toluene		ND
Bromoform	ND	Methyl butyl ketone di		ND
Bromomethane	ND	Methylene Chloride ei		ND<10
n-Butyl benzene	ND	Methyl ethyl ketone "		ND
sec-Butyl benzene	ND	Methyl isobutyl ketone g		ND
tert-Bury! benzene	ИD	Methyl tert-Butyl Ether (MTBE)	
Carbon Disulfide	ND	Naphthalene		ND
Carbon Tetrachloride	ND	n-Propyl benzene		ND
Chlorobenzene	ND	Styrene 'k'		ND
Chloroethane	ND	1,1,1,2-Tetrachloroethane		ND
2-Chloroethyl Vinyl Etherici	ND	1,1,2,2-Tetrachloroethane		ND
Chloroform	ND	Tetrachloroethene		ND<10
Chloromethane	ND	Toluene "		ND
2-Chlorotoluene	ND	1.2.3-Trichlorobenzene		ND
4-Chlorotoluene	ND	1.2.4-Trichlorobenzene		ND
Dibromochloromethane	ND	1,1.1-Trichloroethane		ND
1,2-Dibromo-3-chloropropane	ND	1,1,2-Trichloroethane		ND
Dibromomethane	ND	Trichloroethene		ND
1,2-Dichlorobenzene	ИО	Trichlorofluoromethane		ND
1,3-Dichlorobenzene	ND	1.2.3-Trichloropropane		ND
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene		ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene		ND
1,1-Dichloroethane	ND	Vinyl Acetate an		ND
1,2-Dichloroethane	ND	Vinyl Chloride "		ND
I,1-Dichloroethene	ND	Xylenes, total		ND
cis-1,2-Dichloroethene	ND			
trans-1,2-Dichloroethene	ND			<u> </u>
1,2-Dichloropropane	ND		<u></u>	1
1,3-Dichloropropane	ND			
2,2-Dichloropropane	ND	Comments:		
1,1-Dichloropropene	ND		gate Recoveries (%)	
cis-1,3-Dichloropropene	ND	Dibromofluoromethane		87
trans-1,3-Dichloropropene	ND	Toluene-d8		87
Ethylene dibromide	ND	4-Bromofluorobenzene		90

^{*}water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L; solid and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; NA means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene, (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present. (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene. (o) dimethylbenzenes



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1 1 04/00/00

ND

ND

Versar. Inc	Client Projec	ct ID: #4128-001; Sta Rita Date Sampled: 04/09/98			
1255 Harbor Bay Pkwy, #	1	ameda Co. GSA	Date Received: 04	:eived: 04/10/98	
Alameda, CA 94502		ct: Michael Poland	Date Extracted: 04/10/98		
	Client P.O:	Client P.O:		4/13/98	
EPA method \$260	Vola	tile Organics By GC/MS	<u> 1</u>		
Lab ID	<u></u>	87952			
Client ID		BH3-Soil			
Matrix		S			
Compound	Concentration*	Сотроц	nd	Concentration*	
Acetone (0)	ND<15	Ethylbenzene		ND	
Benzene	ND	Hexachlorobutadiene		ND	
Bromobenzene	ND	Iodomethane		ND	
Bromochloromethane	ND	Isopropylbenzene		ND	
Bromodichloromethane	ND	p-Isopropyl toluene		ND	
Bromoform	ND	Methyl butyl ketone 4,		ND	
Bromomethane	ND	Methylene Chloride's		ND<10	
n-Butyl benzene	ND	Methyl ethyl ketone		ND	
sec-Butyl benzene	ND	Methyl isobutyl ketone '8		ND	

Naphthalene n-Propyl benzene

Methyl tert-Butyl Ether (MTBE)

ND

ND

ND

Styrene 'k' ND ND Chlorobenzene ND ND 1,1,1,2-Tetrachloroethane Chloroethane 2-Chloroethyl Vinyl Ether(c) ND 1,1,2,2-Tetrachloroethane ND ND<10 Chiorotorm ND Tetrachloroethene ИD ND Toluene Chloromethane ND ND 1,2,3-Trichlorobenzene 2-Chlorotoluene ND ND 1,2,4-Trichlorobenzene 4-Chlorotoluene ND 1,1,1-Trichloroethane ND Dibromochloromethane ND 1,2-Dibromo-3-chloropropane ND 1,1,2-Trichloroethane ND ND Trichloroethene Dibromomethane ND ND Trichlorotluoromethane 1,2-Dichlorobenzene ND 1,3-Dichlorobenzene ND 1,2,3-Trichloropropane ND 1,2,4-Trimethylbenzene ND 1,4-Dichlorobenzene 1,3,5-Trimethylbenzene ND Dichlorodifluoromethane ND ND ND Vinyl Acetate (a) 1,1-Dichloroethane ND ND Vinyl Chloride 1,2-Dichloroethane ND ND Xylenes, total 1,1-Dichloroethene ND cis-1,2-Dichloroethene trans-1,2-Dichloroethene ND ND 1,2-Dichloropropane ND 1,3-Dichloropropane ND Comments: 2,2-Dichloropropane 1,1-Dichloropropene ND Surrogate Recoveries (%) ND Dibromofluoromethane 87 cis-1,3-Dichloropropene ND 88 Toluene-d8 trans-1,3-Dichloropropene ND 4-Bromofluorobenzene Ethylene dibromide water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L

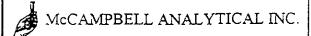
Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L; solid and sludge samples 5.0 ug/kg, wipes 0 2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene, (d) 2-hexanone, (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte, (1) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene, (o) dimethylbenzenes.

tert-Butyl benzene

Carbon Disulfide

Carbon Tetrachloride



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Versar, Inc	Client Project ID: #4128-001: Sta Rita Parcel 15-Alameda Co. GSA		Date Sampled: 04/09/98	
1255 Harbor Bay Pkwy, #100 Alameda, CA 94502			Date Received: 04/10/98	
	Client Contact: Michael Poland Client P.O:		Date Extracted: 04/14/98 Date Analyzed: 04/14/98	
EPA method 8260	Volatile Or	ganics By GC/MS		
Lab ID		87953		
Client ID	BH3-Water			
Matrix	W			
Compound C	Concentration*	Compo	und	Concentration*

Client ID	BH3-Water		
Matrix	W		
Compound	Concentration*	Compound	Concentration*
Acetone (6)	ND<2.5	Ethylbenzene	ND
Benzene	ND	Hexachlorobutadiene	ND
Bromobenzene	ND	Iodomethane	ND
Bromochioromethane	ND	Isopropylbenzene	ND
Bromodichloromethane	ND	p-Isopropyl toluene	ND
Bromoform	ND	Methyl butyl ketone 45	ND
Bromomethane	ND	Methylene Chloride s	ND
n-Butyl benzene	ND	Methyl ethyl ketone '	ND
sec-Butyl benzene	ND	Methyl isobutyl ketone 'g	ND
tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBE)	
Carbon Disulfide	ND	Naphthalene	ND ND
Carbon Tetrachloride	ND	n-Propyl benzene	ND
Chlorobenzene	ND	Styrene	ND
Chloroethane	ND	1,1,1,2-Tetrachloroethane	ND
2-Chloroethyl Vinyl Ether ^(c)	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	ND	Tetrachioroethene	ND
Chloromethane	ND	Toluene "	ND
2-Chlorotoluene	ND	1,2,3-Trichlorobenzene	ND
4-Chlorotoluene	ND	1,2,4-Trichlorobenzene	ND _
Dibromochloromethane	ND	1,1,1-Trichloroethane	ND
1,2-Dibromo-3-chloropropane	ND	1,1,2-Trichloroethane	ND
Dibromomethane	ND	Trichloroethene	ND
1,2-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,3-Dichlorobenzene	ND	1,2,3-Trichloropiopane	ND
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichloroditluoromethane	ND	1,3,5-Trunethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate 'an	ND
1,2-Dichloroethane	ND	Vinyl Chloride "'	ND
1,1-Dichloroethene	ND	Xylenes, total	ND
cis-1,2-Dichloroethene	ND		
trans-1,2-Dichloroethene	ND		
1,2-Dichloropropane	ND		
1,3-Dichloropropane	ND		
2,2-Dichloropropane	ND	Comments:	
1,1-Dichloropropene	ND	Surrogate Recoveries (%)	
cis-1,3-Dichloropropene	ND	Dibromofluoromethane	96
trans-1,3-Dichloropropene	ND	Toluene-d8	100
Ethylene dibromide	ND	4-Bromofluorobenzene	99

^{*}water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L; solid and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene, (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present. (i) liquid sample that contains greater than ~5 vol. % sediment. (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte. (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethone; (o) dimethylbenzenes.



110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Versar, Inc

1255 Harbor Bay Pkwy, #100

Alameda, CA 94502

Client Project ID: #4128-001: Sta Rita
Parcel 15-Alameda Co. GSA

Date Sampled: 04/09/98

Date Received: 04/10/98

Client Contact: Michael Poland

Date Extracted: 04/10/98

Client P.O:

Date Analyzed: 04/13/98

Volatile Organics By GC/MS

87954

EPA method 8260

Lab ID

Client ID	BH4-Soil		
Matrix	S		
Compound	Concentration*	Сотроила	Concentration*
Acetone (0)	ND<15	Ethylbenzene	ND
Benzene	ND	Hexachlorobutadiene	ND
Bromobenzene	ND	Iodomethane	ND
Bromochloromethane	ND	Isopropylbenzene	ND
Bromodichloromethane	ND	p-Isopropyl toluene	ND
Bromoform	ND	Methyl butyl ketone 'd'	ND
Bromomethane	ND	Methylene Chloride'e'	ND<10
n-Butyl benzene	ND	Methyl ethyl ketone ^(b)	ND
sec-Butyl benzene	ND	Methyl isobutyl ketone 'g	ND
tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBE)	
Carbon Disulfide	ND	Naphthalene	ND
Carbon Tetrachlonde	ND	n-Propyl benzene	ND
Chlorobenzene	ND	Styrene (K)	ND
Chloroethane	ND	1.1.1.2-Tetrachloroethane	ND
2-Chloroethyl Vinyl Ether(c)	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	ND	Tetrachloroethene	ND<10
Chloromethane	ND	Toluene "	ND
2-Chlorotoluene	ND	1,2,3-Trichlorobenzene	ND
4-Chlorotoluene	ND	1,2,4-Trichlorobenzene	ND
Dibromochloromethane	ND	1.1,1-Trichloroethane	ND
1,2-Dibromo-3-chloropropane	ND	1,1,2-Trichloroethane	ND
Dibromomethane	ND	Trichloroethene	ND
1,2-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,3-Dichlorobenzene	ND	1,2,3-Trichloropropane	ND
I,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate (III)	ND
1,2-Dichloroethane	ND	Vinyl Chloride (ii)	ND
I,I-Dichloroethene	ND	Xylenes, total '6'	ND
cis-1,2-Dichloroethene	ND		
trans-1,2-Dichloroethene	ND		
1,2-Dichloropropane	ND		
1,3-Dichloropropane	ND		
2,2-Dichloropropane	ND	Comments:	
I,1-Dichloropropene	ND	Surrogate Recoveries (%)	
cis-1.3-Dichloropropene	ND	Dibromofluoromethane	91
trans-1,3-Dichloropropene	ND	Toluene-d8	89
Ethylene dibromide	ND	4-Bromofluorobenzene	93

water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L; vapor samples 0.5 ug/L; solid and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present, (i) liquid sample that contains greater than ~5 vol % sediment; (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte, (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.



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http://www.mccampbell.com E-mail: main@mccampbell.com

Versar, Inc	Client Project ID: #4128-001; Sta Rita	Date Sampled: 04/09/98	
1255 Harbor Bay Pkwy, #100	Parcel 15-Alameda Co. GSA	Date Received: 04/10/98	
Alameda, CA 94502	Client Contact: Michael Poland Date Extracted: 04/1		
	Client P.O:	Date Analyzed: 04/14/98	
<u> </u>	!	<u></u>	

Volatile Organics By GC/MS EPA method 8260 Lab ID 87955 BH4-Water Client ID W Matrix Concentration* Compound Concentration* Compound ND ND<2.5 Acetone ' Ethylbenzene ND Hexachlorobutadiene Benzene ND ND Bromobenzene ND Iodomethane ND Isopropylbenzene Bromochloromethane ND ND p-Isopropyl toluene Bromodichloromethane ND Methyl butyl ketone ND Bromotorm \overline{ND} Methylene Chloride ND Bromomethane ND ND Methyl ethyl ketone n-Butyl benzene ND Methyl isobutyl ketone ND sec-Butyl benzene ND Methyl tert-Butyl Ether (MTBE) tert-Butyl benzene ND ND Naphthalene ND Carbon Disulfide n-Propyl benzene \overline{ND} Carbon Tetrachlonde 1.3 Styrene (k) ND ND Chlorobenzene 1,1,1,2-Tetrachloroethane ND ND Chloroethane ND 2-Chloroethyl Vinyl Etherici ND 1,1,2,2-Tetrachloroethane Tetrachloroethene ND Chlorotorm 5.1 Toluene 'l' ND Chloromethane ND ND ND 1,2,3-Trichlorobenzene 2-Chlorotoluene ND ND 1,2,4-Trichlorobenzene 4-Chlorotoluene ND ND 1,1,1-Trichloroethane Dibromochloromethane ND 1,1,2-Trichloroethane ND 1,2-Dibromo-3-chloropropane Dibromomethane ND Trichloroethene ND Trichlorofluoromethane ND 1,2-Dichlorobenzene ND ND 1,2,3-Trichloropropane 1,3-Dichlorobenzene 1,2,4-Trimethylbenzene ND ND 1,4-Dichlorobenzene 1,3,5-Trimethylbenzene ND Dichloroditluoromethane ND Vinyl Acetate " ND I,I-Dichloroethane ND ND ND Vinyl Chloride '" 1,2-Dichloroethane ND Xylenes, total "" ND 1,1-Dichloroethene ND cis-1,2-Dichloroethene trans-1,2-Dichloroethene ND ND 1,2-Dichloropropane ND 1.3-Dichloropropane Comments: i ND 2,2-Dichloropropane I,I-Dichloropropene ND Surrogate Recoveries (%) Dibromofluoromethane cis-1,3-Dichloropropene ND 100 trans-1,3-Dichloropropene ND Toluene-d8

water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L, solid and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

ND

i-Bromotluorobenzene

Ethylene dibromide

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) higher sample that contains greater than ~5 vol. % sediment. (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene. (o) dimethylbenzenes.



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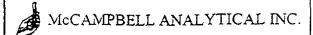
Date Sampled: 04/09/98 Client Project ID: #4128-001; Sta Rita Versar, Inc Parcel 15-Alameda Co. GSA Date Received: 04/10/98 1255 Harbor Bay Pkwy, #100 Client Contact: Michael Poland Date Extracted: 04/14/98 Alameda, CA 94502 Client P.O: Date Analyzed: 04/14/98

Volatile Organics By GC/MS

Lab ID	Lab ID 87956			
Client ID	Client ID BH5-Water			
Matrix	W			
Compound	Concentration*	Compound	Concentration*	
Acetone '6'	ND<2.5	Ethylbenzene	ND	
Benzene	ND	Hexachlorobutadiene	ND	
Bromobenzene	ND	lodomethane	ND	
Bromochioromethane	ND	Isopropyibenzene	ND	
Bromodichloromethane	ND	p-Isopropyl toluene	ND	
Bromoform	ND	Methyl butyl ketone 'd'	ND	
Bromomethane	ND	Methylene Chloride "	ND	
n-Butyl benzene	ND	Methyl ethyl ketone "	ND	
sec-Butyl benzene	ND	Methyl isobutyl ketone '8	ND	
tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBE)		
Carbon Disulfide	ND	Napthalene	ND	
Carbon Tetrachloride	ND	n-Propyl benzene	ND	
Chlorobenzene	ND	Styrene 'k'	ND	
Chloroethane	ND	1,1,2-Tetrachloroethane	ND	
2-Chloroethyl Vinyl Etherici	ND	1,1,2,2-Tetrachloroethane	ND	
Chloroform	ND	Tetrachloroethene	ND	
Chloromethane	ND	Toluene "	ND	
2-Chlorotoluene	ND	1,2,3-Trichlorobenzene	ND	
4-Chiorotoluene	ND	1.2.4-Trichlorobenzene	ND	
Dibromochloromethane	ND	i.l.1-Trichloroethane	ND	
1,2-Dibromo-3-chloropropane	ND	1,1,2-Trichloroethane	ND	
Dibromomethane	ND	Trichloroethene	ND	
1.2-Dichlorobenzene	ND	Trichlorofluoromethane	ND	
1.3-Dichlorobenzene	ND	1.2.3-Trichloropropane	ND	
I.4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND	
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND	
1.1-Dichloroethane	ND	Vinyl Acetate (iii)	ND	
1,2-Dichloroethane	ND	Vinyl Chloride "	ND	
1.1-Dichloroethene	ND	Xylenes, total ""	ND	
cis-1.2-Dichloroethene	ND			
trans-1,2-Dichloroethene	ND	-		
1,2-Dichloropropane	ND	-		
1,3-Dichloropropane	ND	-		
2,2-Dichloropropane	ND	Comments:	<u> </u>	
1,1-Dichloropropene	ND	Surrogate Recoveries	(%)	
cis-1,3-Dichloropropene	ND ND	Dibromofluoromethane	101	
trans-1,3-Dichloropropene	ND ND	Toluene-d8	99	
Ethylene dibromide	ND ND	4-Bromotluorobenzene	99	

water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L; solid and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene, (d) 2-hexanone, (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present. (i) liquid sample that contains greater than ~5 vol % sediment; (j) sample diluted due to high organic content; (k) peaks present in this curbon range do not match the pattern of our standard for this analyte; (1) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene. (o) dimethylbenzenes.



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Versar, Inc	Client Project	Client Project ID: #4128-001: Sta Rita Parcel 15-Alameda Co. GSA Date Sampled: 04 Date Received: 04		′09/98 	
,				Date Received: 04/10/98	
1255 Harbor Bay Pkwy, #1					
Alameda, CA 94502	Client Conta	ct: Michael Poland	Date Extracted: 04	i/10/98 	
	Client P.O:		Date Analyzed: 04/13-04/15/98		
EDA acade d 2240	Vola	tile Organics By GC/MS			
EPA method 8260		87957	 		
Lab ID		BH5-Soil			
Client ID	<u></u>		<u></u>		
Matrix		Ś		·	
Compound	Concentration*	Сотро	ind	Concentration*	
Acetone (6)	ND<15	Ethylbenzene		ND	
Benzene	ND	Hexachlorobutadiene		ND	
Bromobenzene	ND	Iodomethane		ND	
Bromochloromethane	ND	Isopropylbenzene		ND	
Bromodichloromethane	ND	p-Isopropyl toluene		ND	
Bromoform	ND			ND	
Bromomethane	ND			ND<10	
n-Butyl benzene	ND	Methyl ethyl ketone "		ND	
sec-Butyl benzene	ND	Methyl isobutyl ketone *		ND	
tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBE	1		
Carbon Disultide	ND	Naphthalene		ND	
Carbon Tetrachloride	ND	n-Propyl benzene		ND	
Chlorobenzene	ND	Styrene 'k'		ND	
Chloroethane	ND	1,1,1,2-Tetrachloroethane		ND	
2-Chloroethyl Vinyl Etherici	ND	1,1,2,2-Tetrachloroethane		ND	
Chloroform	ND	Tetrachioroethene		ND<10	
Chloromethane	ND	Toluene (1)		ND	
2-Chlorotoluene	ND	1,2,3-Trichlorobenzene		ND	
4-Chlorotoluene	ND	1,2,4-Trichlorobenzene	<u> </u>	ND	
Dibromochloromethane	ND	1.1.1-Trichloroethane		ND	
1,2-Dibromo-3-chloropropane	ND	1,1,2-Trichloroethane		ND	
Dibromomethane	ND	Trichloroethene		ND	
1.2-Dichlorobenzene	ND	Trichiorofluoromethane		ND	
1,3-Dichlorobenzene	ND	1,2,3-Trichloropropane	<u> </u>	ND	
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene		ND	
Dichloroditluoromethane	ND	1,3,5-Trimethylbenzene		ND	

Dibromotluoiomethane

4-Bromofluorobenzene

Vinyl Acetate ""

Vinyl Chloride'

Xylenes, total

Comments:

Toluene-d8

ND

ND

ND

ND DN

ND DN

ND

ND

ND

ND ND

1.1-Dichloroethane

i.2-Dichloroethane

1,1-Dichloroethene

cis-1,2-Dichloroethene

1,3-Dichloropropane

2.2-Dichloropropane

Ethylene dibromide

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

trans-1,2-Dichloroethene 1,2-Dichloropropane

Surrogate Recoveries (%)

ND

ND

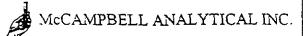
ND

87

88

^{*}water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L; vapor samples 0.5 ug/L, solid and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene: (d) 2-hexanone. (e) dichloromethane; (f) 2-butanone, (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present: (i) liquid sample that contains greater than ~5 vol. % sediment: (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte. (l) methylbenzene; (m) acetic acid ethenyl ester: (n) chloroethene. (o) dimethylbenzenes.



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Versar, Inc	Client Projec	Client Project ID: #4128-001: Sta Rita Parcel 15-Alameda Co. GSA		Date Sampled: 04/09/98 Date Received: 04/10/98	
1255 Harbor Bay Pkwy, #1					
Alameda, CA 94502		ct: Michael Poland	Date Extracted: 04/10/98 Date Analyzed: 04/13/98		
	Client P.O:				
EPA method 8260	Vola	tile Organics By GC/MS			
Lab ID		87958			
Client ID		BH6-Soil			
Matrix		S	<u></u>		
Compound	Concentration*	Compound		Concentration*	
Acetone (b)	ND<15	Ethylbenzene		ND	
Benzene	ND	Hexachlorobutadiene		ND	
Bromobenzene	ND	lodomethane		ND	
Bromochioromethane	ND	Isopropylbenzene		ND	
Bromodichloromethane	ND	p-lsopropyl toluene		ND ND	
Bromoform	ND	Methyl butyl ketone di	Methyl butyl ketone di		
Bromomethane	ND	Methylene Chloride "		ND<10	
n-Butyl benzene	ND	Methyl ethyl ketone 11		ND	
sec-Butyl benzene	ND	Methyl isobutyl ketone 'k		ND	
tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBE)		
Carbon Disulfide	ND	Naphthalene		ND	
Carbon Tetrachioride	ND	n-Propyl benzene		ND	
Chlorobenzene	ND	Styrene 'k'		ND	
Chloroethane	ND	1.1,1,2-Tetrachloroethane		ND	
2-Chloroethyl Vinyl Etherici	ND	1,1,2,2-Tetrachloroethane		ND	
Chloroform	ND	Tetrachloroethene		ND<10	
Chloromethane	ND	Toluene "		ND	
2-Chlorotoluene	ND	1,2,3-Trichlorobenzene		ND	
4-Chlorotoluene	ND	1,2,4-Trichlorobenzene	······································	ND	

1,1,1-Trichloroethane

1,1,2-Trichloroethane

Trichlorofluoromethane

1,2,3-Trichloropropane

1,2,4-Trimethylbenzene

1,3.5-Trimethylbenzene

Trichloroethene

Vinyl Acetate "

Vinyl Chloride "

Xylenes, total 'e'

Comments:

Toluene-d8

water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L; vapor samples 0.5 ug/L; soild and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

Dibromofluoromethane

4-Bromotluorobenzene

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene. (d) 2-hexanone. (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present. (i) liquid sample that contains greater than ~5 vol. % sediment. (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte. (l) methylbenzene; (m) acetic acid ethenyl ester. (n) chloroethene. (o) dimethylbenzenes

Dibromochloromethane

Dibromomethane 1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,1-Dichloroethane
1,2-Dichloroethane

1.1-Dichloroethene

cis-1,2-Dichloroethene

1,3-Dichloropropane

2,2-Dichloropropane

1,I-Dichloropropene cis-1,3-Dichloropropene

Ethylene dibromide

trans-1,3-Dichloropropene

trans-1.2-Dichloroethene 1,2-Dichloropropane

Dichlorodifluoromethane

1,2-Dibromo-3-chloropropane

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

Surrogate Recoveries (%)

ND

ND

ND

ND

ND

ND

ND

ND

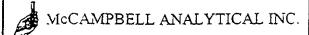
ND

ND

84

90

95



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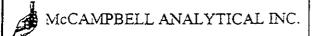
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Versar, Inc	Client Project ID: #4128-001; Sta Rita	Date Sampled: 04/09/98		
1255 Harbor Bay Pkwy, #100	Parcel 15-Alameda Co. GSA	Date Received: 04/10/98		
Alameda, CA 94502	Client Contact: Michael Poland	Date Extracted: 04/14-04/15/98		
	Client P.O:	Date Analyzed: 04/14-04/15/98		
Volatile Organics By GC/MS				

EPA method 8260 87959 Lab ID Client ID BH6-Water W Matrix Concentration* Compound Concentration* Compound ND Acetone ND<2.5 Ethylbenzene ND Hexachlorobutadiene ND Benzene ND ND Bromobenzene Iodomethane Bromochloromethane Isopropylbenzene ND ND Bromodichloromethane ND p-Isopropyl toluene ND Methyl butyl ketone Bromotorm ND ND ND Methylene Chloride ND Bromomethane ND n-Butyl benzene ND Methyl ethyl ketone ND sec-Butyl benzene ND Methyl isobutyl ketone tert-Butyl benzene ND Methyl tert-Butyl Ether (MTBE) ND Carbon Disultide ND Naphthalene ND Carbon Tetrachionide 17 n-Propyl benzene Styrene 'k ND Chlorobenzene ND 1,1,1,2-Tetrachloroethane ND Chloroethane ND 2-Chloroethyl Vinyl Ether(c) ND 1,1,2.2-Tetrachloroethane ND 120 Tetrachloroethene Chloroform 21 ND Toluene 'l' ND Chloromethane 1,2,3-Trichlorobenzene ND 2-Chiorotoluene ND 1,2,4-Trichlorobenzene ND 4-Chlorotoluene ND Dibromochloromethane ND 1,1,1-Trichloroethane ND ND 1,2-Dibromo-3-chloropropane ND 1.1.2-Trichloroethane 2.5 ND Trichloroethene Dibromomethane 1,2-Dichlorobenzene ND ND Trichlorofluoromethane ND ND 1,2,3-Trichloropropane 1,3-Dichlorobenzene ND 1,2,4-Trimethylbenzene ND 1,4-Dichlorobenzene Dichlorodifluoromethane ND ND 1.3.5-Trimethylbenzene ND ND Vinyl Acetate " 1,1-Dichloroethane Vinyl Chloride 1,2-Dichloroethane ND ND ND ND Xylenes, total " 1.1-Dichloroethene ND cis-1,2-Dichloroethene trans-1.2-Dichloroethene ND ND 1,2-Dichloropropane 1,3-Dichloropropane ND ND Comments: 2,2-Dichloropropane Surrogate Recoveries (%) ND 1,1-Dichloropropene ND Dibromofluoromethane 102 cis-1,3-Dichloropropene ND Toluene-d8 99 trans-1,3-Dichloropropene 4-Bromotluorobenzene 96 Ethylene dibromide ND

^{*}water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug.L., vapor samples 0.5 ug/L, solid and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene, (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment. (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte: (1) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene. (o) dimethylbenzenes.



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Versar, Inc	Client Project ID: #4128-001; Sta Rita	Date Sampled: 04/09/98
1255 Harbor Bay Pkwy, #100	Parcel 15-Alameda Co. GSA	Date Received: 04/10/98
Alameda, CA 94502	Client Contact: Michael Poland	Date Extracted: 04/10/98
	Client P.O:	Date Analyzed: 04/13/98

Volatile Organics By GC/MS

EPA method 8260	Vola	tile Organics By GC/MS			
Lab ID		87960			
Client ID	_	BH7-Soil			
Matrix	\$ \$				
Compound	Concentration*	Compound	Concentration*		
Acetone (b)	ND<15	Ethylbenzene	ND		
Benzene	NĎ	Hexachlorobutadiene	ND		
Bromobenzene	ND	Iodomethane	ND		
Bromochloromethane	ND	Isopropylbenzene	ND		
Bromodichloromethane	ND	p-Isopropyl toluene	ND		
Bromeform	ND	Methyl butyl ketone "	ND		
Bromomethane	ND	Methylene Chloride e	ND<10		
n-Butyl benzene	ND	Methyl ethyl ketone "	ND		
sec-Butyl benzene	ND	Methyl isobutyl ketone 'g	ND		
tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBE)			
Carbon Disulfide	ND	Naphthalene	ND		
Carbon Tetrachloride	ND	n-Propyl benzene	ND		
Chlorobenzene	ND	Styrene (X)	ND		
Chloroethane	ND	1,1,1,2-Tetrachloroethane	ND		
2-Chloroethyl Vinyl Ether ^(c)	ND	1.1.2.2-Tetrachloroethane	ND		
Chloroform	ND	Tetrachloroethene	ND<10		
Chloromethane	ND	Toluene "	ND		
2-Chlorotoluene	ND	1,2,3-Trichlorobenzene	ND		
4-Chlorotoluene	ND	1,2,4-Trichlorobenzene	ND		
Dibromochloromethane	ND	1,1.1-Trichloroethane	ND		
1,2-Dibromo-3-chloropropane	ND	1,1,2-Trichloroethane	ND		
Dibromomethane	NĎ	Trichloroethene	ND		
1,2-Dichlorobenzene	ND	Trichlorofluoromethane	ND		
1,3-Dichlorobenzene	ND	1,2,3-Trichloropropane	ND		
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND		
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND		
1,1-Dichloroethane	ND	Vinyl Acetate din	ND		
1,2-Dichloroethane	ND	Vinyl Chloride 111	ND		
1,1-Dichloroethene	ND	Xylenes, total (0)	ND		
cis-I,2-Dichloroethene	ND				
trans-1,2-Dichloroethene	ND				
1,2-Dichloropropane	ND				
1,3-Dichloropropane	ND				
2,2-Dichloropropane	ND	Comments:			
1.1-Dichloropropene	ND	Surrogate Recoveries ((%)		
cis-1,3-Dichloropropene	ND	Dibromotluoromethane	87		
trans-1.3-Dichloropropene	ND	Toluene-d8	92		
Ethylene dibromide	ND	4-Bromofluorobenzene	96		

water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L; solid and sludge samples 5.0 ug/kg; wipes 0.2 ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present. (i) liquid sample that contains greater than ~5 vol % sediment. (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte. (I) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene. (o) dimethylbenzenes



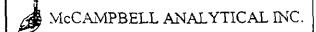
110 Second Avenue South, #D7, Pacheco, CA 94553
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.inccampbell.com E-mail: main@mccampbell.com

Date Sampled: 04/09/98 Client Project ID: #4128-001; Sta Rita Versar, Inc Parcel 15-Alameda Co. GSA Date Received: 04/10/98 1255 Harbor Bay Pkwy, #100 Client Contact: Michael Poland Date Extracted: 04/14/98 Alameda, CA 94502 Client P.O: Date Analyzed: 04/14/98 Volatile Organics By GC/MS EPA method 8260 Lab ID 87961 BH7-Water Client ID 337

Matrix	W		
Compound	Concentration* Compound		Concentration*
Acetone (0)	ND<2.5	Ethylbenzene	ND
Benzene	ND	Hexachlorobutadiene	ND
Bromobenzene	ND	lodomethane	ND
Bromochloromethane	ND	Isopropylbenzene	ND
Bromodichloromethane	ND	p-isopropyl toluene	ND
Bromoform	ND	Methyl butyl ketone "	ND
Bromomethane	ND	Methylene Chloride ^e '	ND
n-Butyl benzene	ND	Methyl ethyl ketone "	ND
sec-Butyl benzene	ND	Methyl isobutyl ketone 'e	ND
tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBE)	
Carbon Disulfide	ND	Naphthalene	ND
Carbon Tetrachloride	1.5	n-Propyl benzene	ND
Chlorobenzene	ND	Styrene 'kı	ND
Chloroethane	ND	1,1,1,2-Tetrachloroethane	ND
2-Chloroethyl Vinyl Ether ^(c)	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	4.5	Tetrachloroethene	2.2
Chloromethane	ND	Toluene "	ND
2-Chlorotoluene	ND	1,2,3-Trichlorobenzene	ND
4-Chlorotoluene	ND	1,2,4-Trichlorobenzene	ND
Dibromochloromethane	ND	1.1.1-Trichloroethane	ND
1,2-Dibromo-3-chloropropane	ND	1,1,2-Trichloroethane	ND
Dibromomethane	ND	Trichloroethene	ND
1,2-Dichlorobenzene	ND	Trichlorofluoromethane	ND
1,3-Dichlorobenzene	ND	1,2,3-Trichloropropane	ND
I,4-Dichlorobenzene	ND	1,2.4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3.5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate iii/	ND
1,2-Dichloroethane	ND	Vinyl Chloride "	ND
1,1-Dichloroethene	ND	Xylenes, total "	ND
cis-1,2-Dichloroethene	ND		
trans-1,2-Dichloroethene	ND		
1,2-Dichloropropane	ND		
1,3-Dichloropropane	ND		
2,2-Dichloropropane	ND	Comments:	
1,1-Dichloropropene	ND	Surrogate Recoveries (%	
cis-1,3-Dichloropropene	ND	Dibromofluoromethane	99
trans-1,3-Dichloropropene	ND	Toluene-d8	100
Ethylene dibromide	ND	4-Bromotluorobenzene	97

^{*}water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L, solid and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

⁽b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene. (d) 2-hexanone. (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment. (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte. (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.



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Date Sampled: 04/09/98 Client Project ID: #4128-001: Sta Rita Versar, Inc. Parcel 15-Alameda Co. GSA Date Received: 04/10/98 1255 Harbor Bay Pkwy, #100 Client Contact: Michael Poland Date Extracted: 04/10/98 Alameda, CA 94502 Client P.O: Date Analyzed: 04/13/98 Volatile Organics By GC/MS EPA method 8260 87964 Lab ID BH8-C-Soil Client ID Matrix S Concentration* Concentration* Compound Compound Acetone (t ND<15 Ethylbenzene ND ND Benzene ND Hexachlorobutadiene ND Bromobenzene $\overline{\mathsf{N}\mathsf{D}}$ Iodomethane ND Bromochloromethane ND Isopropylbenzene ND Bromodichloromethane מא p-Isopropyl toluene ND ND Methyl butyl ketone Bromoform ND<10 Bromomethane ND Methylene Chloude" ND $\overline{\mathsf{N}\mathsf{D}}$ Methyl ethyl ketone ' n-Butyl benzene ND $\overline{\mathsf{N}\mathsf{D}}$ Methyl isobutyl ketone '* sec-Butyl benzene ND Methyl tert-Butyl Ether (MTBE) tert-Butyl benzene ND \overline{ND} Naphthalene Carbon Disulfide ND Carbon Tetrachloride $\overline{\mathsf{N}\mathsf{D}}$ n-Propyl benzene ND Styrene 'k $\overline{\mathsf{N}\mathsf{D}}$ Chlorobenzene ND 1,1,1,2-Tetrachloroethane ND Chloroethane ND 1,1,2,2-Tetrachloroethane 2-Chloroethyl Vinyl Etherica ΝD ND<10 ND Tetrachloroethene Chlorotorm ND Toluene " Chloromethane $\overline{\mathsf{ND}}$ ND $\overline{\mathsf{ND}}$ 1,2,3-Trichlorobenzene 2-Chlorotoluene

1,2,4-Trichlorobenzene

1.1.1-Trichloroethane

1,1,2-Trichloroethane

Trichlorofluoromethane

1,2,3-Trichloropropane

1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene

Dibromofluoromethane

1-Bromofluorobenzene

Trichloroethene

Vinyl Acetate (iii

Vinyl Chloride "

Xylenes, total "

Comments:

Toluene-d8

 $\overline{\mathsf{N}\mathsf{D}}$

ИD

ND

ND

ND

ND

ND

ND

 $\overline{\mathsf{N}}\mathsf{D}$

 $\overline{\mathsf{N}}\mathsf{D}$

 $\overline{\mathsf{N}}\mathsf{D}$

ND

NĎ

ND ND

ND

ND

ND

ND

ND

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L. Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L, solid and sludge samples 5.0 ug/kg; wipes 0.2 ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

(b) 2-propagate or dimethyl ketone: (c) (2-chloroethoxy) ethere: (d) 2-propagate; (e) dichloromethone: (f) 2-putanone: (g) 4-methyl-2-propagate.

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present, (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte; (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene, (o) dimethylbenzenes

4-Chlorotoluene

Dibromomethane

1,2-Dichlorobenzene

1,3-Dichlorobenzene

1,4-Dichlorobenzene

1,1-Dichloroethane

1,2-Dichloroethane

1,1-Dichloroethene

cis-1,2-Dichloroethene

1,2-Dichloropropane

1,3-Dichloropropane

2,2-Dichloropropane

1.1-Dichloropropene

Ethylene dibromide

cis-1,3-Dichloropropene

trans-1,3-Dichloropropene

trans-1,2-Dichloroethene

Dichlorodifluoromethane

Dibromochioromethane

1,2-Dibromo-3-chloropropane

Surrogate Recoveries (%)

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

ND

89

89



110 Second Avenue South, ≠D7, Pacheco, CA 94553 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Date Sampled: 04/09/98 Client Project ID: #4128-001: Sta Rita Versar, Inc. Parcel 15-Alameda Co. GSA Date Received: 04/10/98 1255 Harbor Bay Pkwy, #100 Client Contact: Michael Poland Date Extracted: 04/15/98 Alameda, CA 94502 Client P.O: Date Analyzed: 04/15/98

Volatile Organics By GC/MS

87967

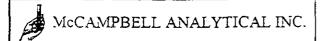
EPA	method	8260
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Lab ID

		8/90/				
Client ID		BH8-C-Water	 			
Matrix		W				
Compound	Concentration*	Compound	Concentration*			
Acetone (b)	ND<2.5	Ethylbenzene				
Benzene	ND	Hexachlorobutadiene	ND			
Bromobenzene	ND	Iodomethane	ND			
Bromochloromethane	ND	Isopropyibenzene	ND			
Bromodichloromethane	ND	p-Isopropyl taluene	ND			
Bromoform	ND	Methyl butyl ketone (6)	ND			
Bromomethane	ND	Methylene Chloride "	ND			
n-Butyl benzene	ND	Methyl ethyl ketone ^(f)	ND			
sec-Butyl benzene	ND	Methyl isobutyl ketone '8	ND			
tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBL)				
Carbon Disulfide	ND	Naphthalene	ND			
Carbon Tetrachloride	ND	n-Propyl benzene	ND			
Chlorobenzene	ND	Styrene ki	ND			
Chloroethane	ND	1.1.1.2-Tetrachloroethane	ND			
2-Chloroethyl Vinyl Ether (5)	ND	1,1,2,2-Tetrachloroethane	ND			
Chloroform	ND	Tetrachloroethene	25			
Chloromethane	ND	Toluene '	ND			
2-Chiorotoluene	ND	1,2,3-Trichlorobenzene	ND			
4-Chlorotoluene	ND	1,2,4-Trichlorobenzene	ND			
Dibromochloromethane	ND	1,1,1-Trichloroethane	ND			
1,2-Dibromo-3-chloropropane	ND	1,1.2-Trichloroethane	ND			
Dibromomethane	ND	Trichloroethene	ND			
1,2-Dichlorobenzene	ND	Trichlorotluoromethane	ND			
1,3-Dichlorobenzene	ND	1,2.3-Trichloropropane	ND			
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND			
Dichlorodifluoromethane	DND	1.3.5-Trimethylbenzene	ND			
1,1-Dichloroethane	ND	Vinyl Acetate 'm'	ND			
1,2-Dichloroethane	ND	Vinyl Chloride '''	ND			
1,1-Dichloroethene	ND	Xylenes, total (9)	ND			
cis-1,2-Dichloroethene	ND					
trans-1.2-Dichloroethene	ND					
1.2-Dichloropropane	ND					
1,3-Dichloropropane	ND					
2,2-Dichloropropane	ND	Comments: 1				
1,1-Dichloropropene	ND	Surrogate Recoveries (%)				
cis-1,3-Dichloropropene	ND	Dibromotiuoromethane	91			
trans-1,3-Dichloropropene	ND	Toluene-d8	101			
Ethylene dibromide	ND	4-Bromofluorobenzene	103			

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L; solid and sludge samples 5.0 ug/kg, wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene; (d) 2-hexanone, (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol. % sediment; (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte, (1) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene; (o) dimethylbenzenes.



110 Second Avenue South, #D7, Pacheco, CA 94553 Telephone . 925-798-1620 Fax : 925-798-1622 http://www.mccampbell.com/E-mail: main@mccampbell.com/

Versar, Inc	Client Projec	et ID: #4128-001; Sta Rita	Date Sampled: 04	/09/98
		ameda Co. GSA	Date Received: 04	/10/98
1255 Harbor Bay Pkwy, #1	<u> </u>	ct: Michael Poland Date Extracted: 04/10/9		1/10/09
Alameda, CA 94502	Chent Conta	ict. Wichael Foland	Date Extracted. 0-	
	Client P.O:		Date Analyzed: 04	1/13/98
	Vola	tile Organics By GC/MS		-
EPA method 8260				
Lab ID		87965		<u> </u>
Client ID		BH9-14-14.5		
Matrix		S		
Compound	Concentration*	Compou	nd	Concentration*
Acetone (b)	ND<15	Ethylbenzene		ND
Benzene	ND	Hexachlorobutadiene		ND
Bromobenzene	ND	Iodomethane		ND
Bromochloromethane	ND	[sopropylbenzene		ND
Bromodichloromethane	ND	p-Isopropyl toluene		ND
Bromoform	ND	Methyl butyl ketone (4)		ND
Bromomethane	ND	Methylene Chloride ^(c)		ND<10
n-Buryl benzene	ND	Methyl ethyl ketone		ND
sec-Butyl benzene	ND	Methyl isobutyl ketone '8		ND
tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBE)		
Carbon Disulfide	ND	Naphthalene		ND
Carbon Tetrachloride	ND	n-Propyl benzene		ND
Chlorobenzene	ND	Styrene ki		ND
Chloroethane	ND	1,1,1,2-Tetrachloroethane		ND
2-Chloroethyl Vinyl Ether(c)	ND	1,1,2,2-Tetrachloroethane	,,,,	ND
Chloroform	ND	Tetrachloroethene		33
Chloromethane	ND	Toluene ^D		ND
2-Chlorotoluene	ND	1,2,3-Trichlorobenzene	·	ND
4-Chlorotoluene	ND	1,2,4-Trichlorobenzene		ND
Dibromochloromethane	ND	1,1,1-Trichloroethane		ND
1,2-Dibromo-3-chloropropane	ND	1,1,2-Trichloroethane		ND
Dibromomethane	ND	Trichloroethene		ND
1,2-Dichlorobenzene	ND	Trichlorofluoromethane	-	ND
1,3-Dichlorobenzene	ND	1,2,3-Trichloropropane		ND
I,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene		ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene		ND
1,1-Dtchloroethane	ND	Vinyl Acetate (m)		ND
1,2-Dichloroethane	ND	Vinyl Chloride in		ND
1,1-Dichloroethene	ND	Xylenes, total		ND
cis-1,2-Dichloroethene	ND			
trans-1,2-Dichloroethene	ND			
1,2-Dichloropropane	ND			
1,3-Dichloropropane	ND			
2,2-Dichloropropane	ND	Comments:		
1,1-Dichloropropene	ND	Surro	gate Recoveries (%)	
cis-1,3-Dichloropropene	ND	Dibromotluoromethane		84
trans-1,3-Dichloropropene	ND	Toluene-d8		91
Ethylene dibromide	ND	4-Bromotluorobenzene		99

*water and vapor samples are reported in ug/L, soil and sludge samples m ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L; solid and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene, (d) 2-hexanone; (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than ~5 vol % sediment; (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte. (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene, (o) dimethylbenzenes



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Versar, Inc	Client Project ID: #4128-001; Sta Rita	Date Sampled: 04/09/98		
1255 Harbor Bay Pkwy, #100	Parcel 15-Alameda Co. GSA	Date Received: 04/10/98		
Alameda, CA 94502	Client Contact: Michael Poland	Date Extracted: 04/14-04/15/98		
	Client P.O:	Date Analyzed: 04/14-04/15/98		
	T/ 1 - 2 - 0 (P - CC0 IS	<u> </u>		

EPA method 8260	Vola	tile Organics By GC/MS		
Lab ID		87966		
Client ID		BH9-GW		
Matrix		W		
Compound	Concentration*	Compound	Concentration*	
Acetone (b)	ND<2.5	Ethylbenzene	ND	
Benzene	ND	Hexachlorobutadiene	ND	
Bromobenzene	ND	Iodomethane	ND	
Bromochloromethane	ND	Isopropylbenzene	ND	
Bromodichloromethane	ND	p-Isopropyl toluene	ND	
Bromoform	ND	Methyl butyl ketone ^{di}	ND	
Bromomethane	ND	Methylene Chloride ^(c)	ND	
n-Butyl benzene	ND	Methyl ethyl ketone (1)	ND	
sec-Butyl benzene	ND	Methyl isobutyl ketone (8	ND	
tert-Butyl benzene	ND	Methyl tert-Butyl Ether (MTBE)		
Carbon Disultide	ND	Napthalene	ND	
Carbon Tetrachloride	ND	n-Propyl benzene	ND	
Chlorobenzene	ND	Styrene 'k'	ND	
Chloroethane	ND	1,1,1,2-Tetrachloroethane	ND	
2-Chloroethyl Vinyl Ether ^(c)	ND	1,1.2,2-Tetrachloroethane	ND	
Chloroform	ND	Tetrachloroethene	280	
Chloromethane	ND	Toluene "	ND	
2-Chlorotoluene	ND	1,2,3-Trichlorobenzene	ND	
4-Chlorotoluene	ND	1,2.4-Trichlorobenzene	ND	
Dibromochloromethane	ND	1,1.1-Trichloroethane	ND	
1,2-Dibromo-3-chloropropane	ND	1,1,2-Trichloroethane	ND	
Dibromomethane	ND	Trichloroethene	ND	
1,2-Dichlorobenzene	ND	Trichlorofluoromethane	ND	
1,3-Dichlorobenzene	ND	1.2.3-Trichloropropune	ND	
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND	
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND	
I,I-Dichloroethane	ND	Vinyi Acetate (ai)	ND	
1,2-Dichloroethane	ND	Vinyl Chloride 'a'	ND	
1,1-Dichloroethene	ND	Xylenes, total '01	ND	
cis-1,2-Dichloroethene	ND			
trans-1,2-Dichloroethene	ND			
1,2-Dichloropropane	ND	_		
1,3-Dichloropropane	ND			
2,2-Dichloropropane	ND	Comments:		
1,1-Dichloropropene	ND	Surrogate Recoveries (%)		
cis-1,3-Dichloropropene	ND	Dibromofluoromethane	98	
trans-1,3-Dichloropropene	ND	Toluene-d8	97	
Ethylene dibromide	ND	4-Bromofluorohenzene	97	

*water and vapor samples are reported in ug/L, soil and sludge samples in ug/kg, wipes in ug/wipe and all TCLP / SPLP extracts in ug/L Reporting limits unless otherwise stated: water samples 1.0 ug/L, vapor samples 0.5 ug/L; solid and sludge samples 5.0 ug/kg; wipes 0.2ug/wipe ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis

(b) 2-propanone or dimethyl ketone; (c) (2-chloroethoxy) ethene: (d) 2-hexanone, (e) dichloromethane; (f) 2-butanone; (g) 4-methyl-2-pentanone or isopropylacetone; (h) lighter than water immiscible sheen is present; (i) liquid sample that contains greater than -5 vol *6 sediment; (j) sample diluted due to high organic content; (k) peaks present in this carbon range do not match the pattern of our standard for this analyte. (l) methylbenzene; (m) acetic acid ethenyl ester; (n) chloroethene. (o) dimethylbenzenes

QC REPORT FOR VOCs (EPA 8240/8260)

Date: 04/13/98-04/14/98 Matrix: WATER

	Concentr	ation	(ug/kg,u		% Reco	very	
Analyte 	Sample (#87966)	MS	MSD	Amount Spiked	MS	MSD	RPD
1,1-Dichloroethe	0	77	80	100	77	80	3.8
Trichloroethene	0	76	77	100	76	77	1.3
EDB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	0	102	102	100	102	102	0.0
Benzene	0	106	108	100	106	108	1.9
Toluene	0	103	103	100	103	103	0.0
į		_	[[

% Rec. = (MS - Sample) / amount spiked x 100

RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100

QC REPORT FOR VOCs (EPA 8240/8260)

Date: 04/15/98-04/17/98 Matrix: WATER

	Concentr	ation	(ug/kg,u		% Reco		
Analyte	Sample (#87950)	MS_	MSD	Amount Spiked	MS	MSD	RPD
1,1-Dichloroethe	0	78	80	100	78	80	2.5
Trichloroethene EDB	O N/A	78 N/A	80 N/A	100 N/A	78 N/A	08 A\N	2.5 N/A
Chlorobenzene	0	105 111	106	100 100	105 111	106 111	0.9 0.0
Benzene Toluene	0	106	106	100	106	106	0.0
			_				

% Rec. = (MS - Sample) / amount spiked x 100

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

QC REPORT FOR VOCs (EPA 8240/8260)

Date: 04/13/98

Matrix: SOIL

	Concentr	ation	(ug/kg,u		% Reco		
Analyte 	Sample (#80336)	MS	MSD	Amount Spiked	 Mas 	MSD	RPD
1,1-Dichloroethe	o	85	85	100	85	85	0.0
Trichloroethene	0	82	84	100	82	84	2.4
EDB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	a	104	103	100	104	103	1.0
Benzene	0	112	113	100	112	113	0.9
Toluene	0	114	115	100	114	115	0.9
					<u> </u>		

 $RPD = (MS - MSD) / (MS + MSD) \times 2 \times 100$

[%] Rec. = (MS - Sample) / amount spiked x 100

PROJECT NO.	PROJECT NAME				. 111	PAF	AMETER	INDUSTRIAL HYGIENE SAMPLE					
4128-001		2 KIT	ष ^	~a/(cel 15 - Alameda Con	nty6	SA	1/ \$ /4	13.A	THE REPORT OF	MANAGEMENT OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE P	A SECTION AND ADDRESS OF THE PERSON AND ADDR	7
SAMPLERS: (Signatur	Pol	~			M- Polenz		1				948		DEMARKS
FIELD Sample Number	DATE	TIME	сомь.	GRAB	STATION LOCATION	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	, s /		/		949 950		REMARKS
BH 1-water	4-9	10:50		X		12	X			87	151	- h	latersamples - 2 wa
BH 1-mil	Į i	10:00		×		1	X				152	so So	
BH 2-water	И	11:70		X		2	X				353		
BH2-soil	ıt	Ţt.		X		1	X			879	生物体的		
BH3 - soil	и	12:12		X		1	X			A STATE OF THE STATE	影响基礎		
BH3 - water	11	12:30		X		2	X		1	87	公子则 常		
BH4 - soil	11	13:30		X		1	×	-			956		
BHY - water	"	13:30		X		3.	×	1		400000000	957		
BH5-water	11	14:10		X		2	×			87	958		
BH5- sil	IJ	14:10		X			X	1	<u></u>	879	A STATE OF THE PARTY OF THE PAR		
BH6 - soil	IJ	14:54		X		1	X			Zaranera (de			
BH6-water	u	15:10		X		2	\times	1					
Relinquished by: (Sign		4.		/ Tin	ne Received by: (Signature)	R	inqui:	shed by: (Signat	ture)		/ Time	Received by: (Signature)
(Printed)				(Printed)	(Prir	nted)				1	((Printed)	
M. Poler	~2_												H. TCiccA
Relinquished by: (Sig	nature)		Date	/ Tin	me Received for Laboratory by: (Signature)		Date	/ Time	Rer	marks_ P	ease re	phee	sampling containers , a include for v

SCONTAINED to an evellow); Copy to Coordinator Field Files (pink).

APPROPRIATE

GOOD CONDITION

PRESERVATION PRESERVATION PRESERVATION

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WCI NGII inc.						CHAIN OF CUSTODY RECORD					Į(10942 XVC+96, doc									
PROJECT NO. 4128-001	PROJECT NAME Stac Rita Parce				1 15 - Alameda County 6.			5A. / 6			9	P		RAMETERS				INDUSTRIAL HYGIENE SAMPLE		LE	× N
SAMPLERS: (Signature) M. Documents			(Prin	(Printed) Michael Blenn			S. J. J. J. J. J. J. J. J. J. J. J. J. J.				///		///		7	DEMARKS			Management of the latest of th		
FIELD Sample Number	DATE 198	TIME	COMP.	GRAB		STATION LOCATION	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	8 7			&/						,		8296	Ö	
BH7 - soil	4-9	16:12		X			1	X						<i></i>					8796		
BH7 - water	и	16:30		×			1	X											67/08		
BH8 - gw	И	17:10		×			2									HO	DI D	1339	87,91	对话 野	
BH8-b-soil	ч	17:30		X			1								ļ 		11	177	The Control of the Co		
B#8-c-soil	1/	17:50		×			1	X											(07/9)	X	
BH 9-14-14.5	4	14:10		X			1	X								 -			Byes	7	
B#9-gw	И	ų		X			2	X							 				8298	6	
BH 8-C water	rıı	17:50		X			2									140	ed .		8796	10.00	
	ļ							5108	GIMET	LSIC	THER							1938			3 755
						PRESERVATION APPROPRIA	, -•		1												
				<u> </u>		SPACE ABSENT CONTAINER					ئلانى ئىلىنى] 									
		<u> </u>		<u> </u>				*****	141411	i i i i											
Relinquished by: (Signature) Date / Time 4-10 19		me Received by: (Signature) #650			Relinquished by: (Signa				· //				1/1/00 1255 V/			ceived by: (Signature)					
(Printed)			(Printed)		(Printed)						TP:			tPrint	inted)						
M. Poler	~~						<u> </u>										H.1	12:00	: A		
Relinquished by: (S)	gnature)		Dat	e / Ti	me	Received for Laboratory by: (Signature)		Date	/ Tin	ne [Rema	rks									
(Printed)				, l		(Printed)	<u> </u>		.1	\dashv											
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