RWQCB lead site

Versar INC.

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.

• SAN FRANCISCO BAY AREA OFFICE •
1255 HARBOR BAY PARKWAY, SUITE 100 • ALAMEDA, CALIFORNIA 94502 • TELEPHONE: (510) 814-5900 FAX: (510) 814-5901

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 (µg/l), respectively. The groundwater sample from P-4 also contained 4.2 µg/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.

Is this a problem?

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 1-½ 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.

2) 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

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.

Soil samples retained for chemical analysis were prepared immediately upon retrieval. The sample sleeves were covered at the ends with Teflon™ 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 (µg/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 µg/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 µg/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 µg/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 µg/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.

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.

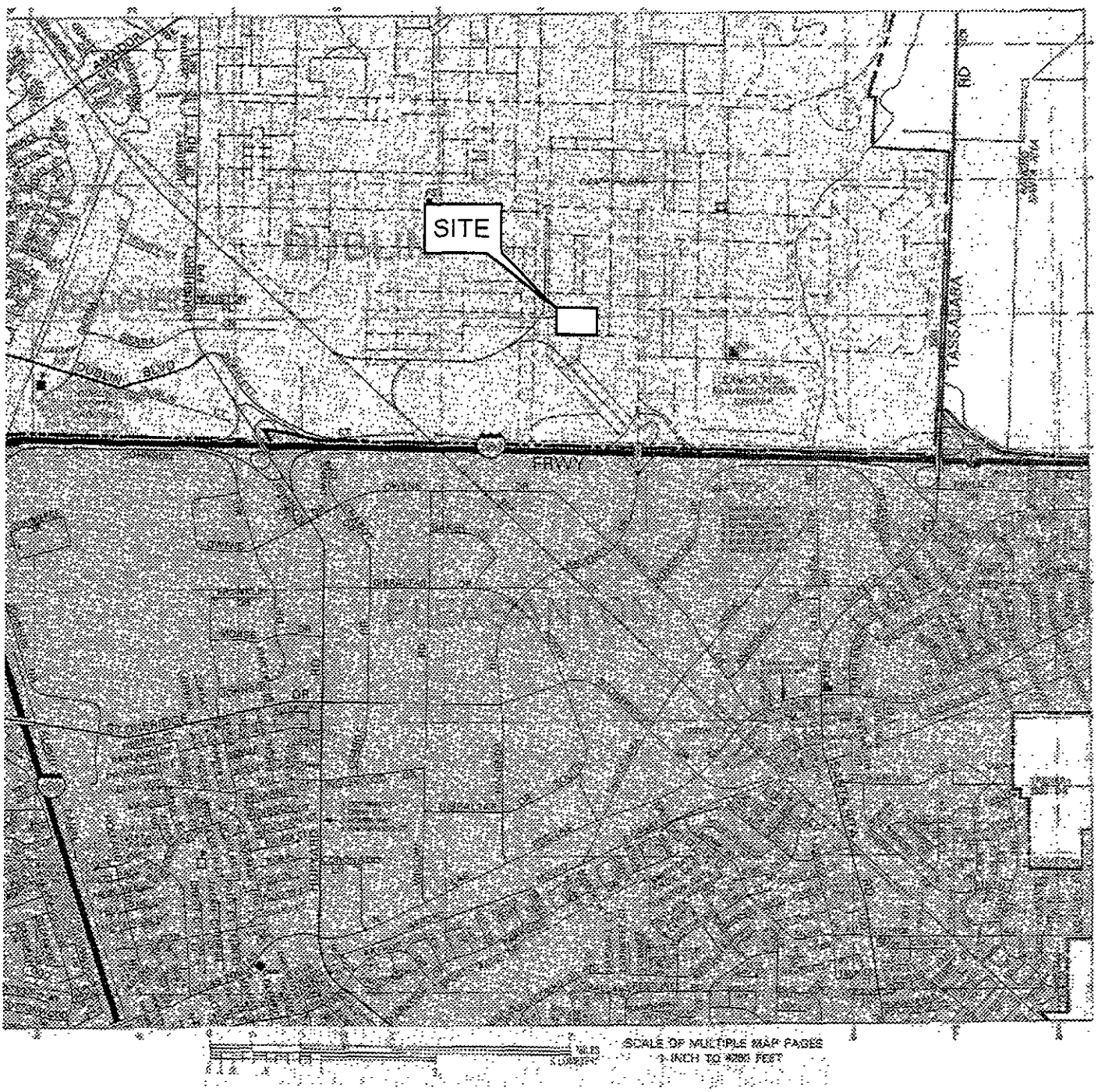
Versar appreciates this opportunity to provide environmental consulting services to GSA. If you have any questions about this report or any of the attachments, please contact Michael Stephenson at (510) 814-5922 or Mr. Tim Berger at (916) 863-9323.

Sincerely,

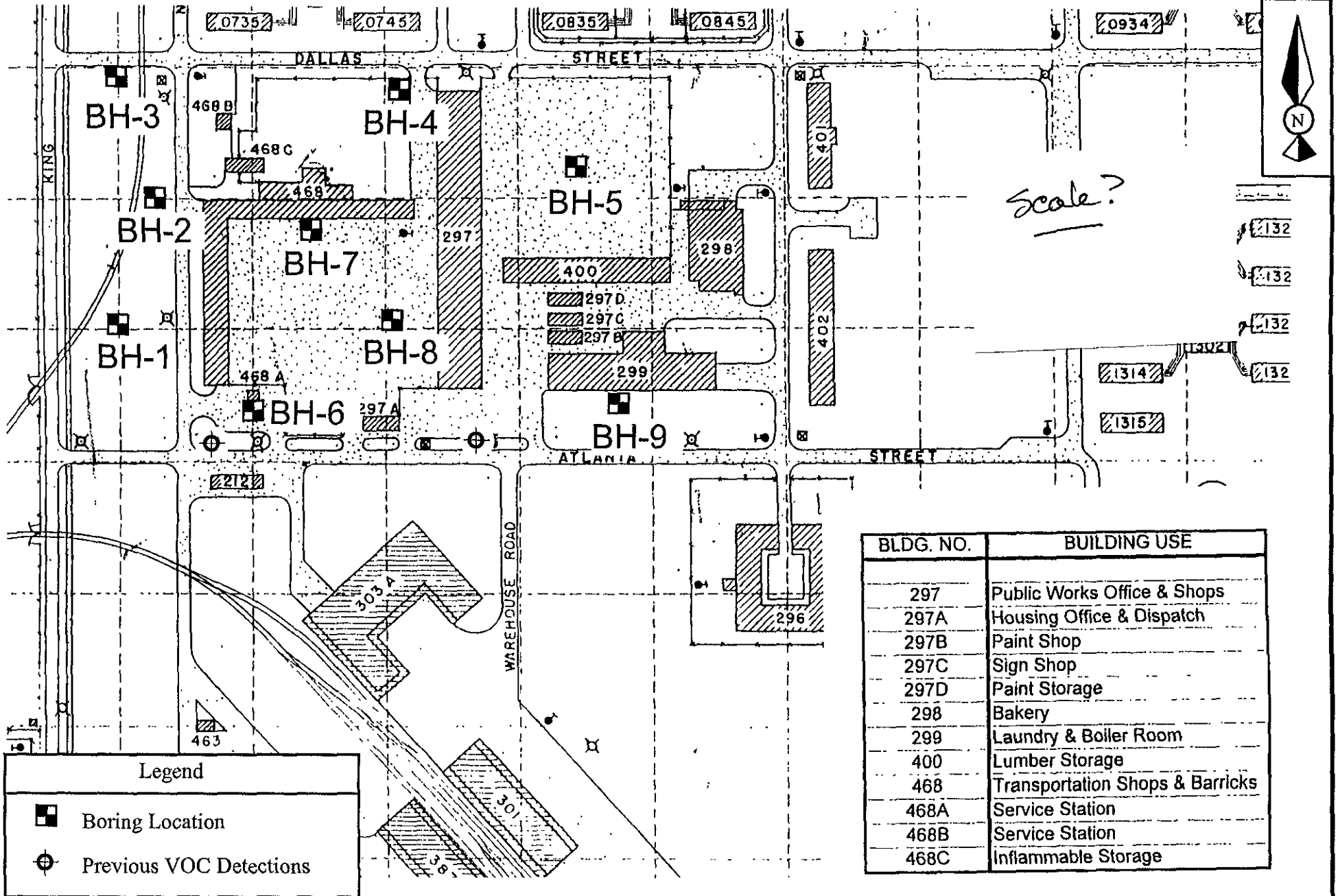
Michael J. Stephenson
Sr. Associate Environmental Scientist
Project Manager

Tim Berger, R.G., H.G.
Supervising Geoscientist
Environmental Management Division

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 Polen. Date: 4/21/98 Project No.: 4128-001	Versar, Inc. 7844 Madison Ave. Suite 167 Fair Oaks, CA 95628 (916) 962-1612	Site Location Map Santa Rita Property - Parcel 15 Dublin, California	FIG 1



BLDG. NO.	BUILDING USE
297	Public Works Office & Shops
297A	Housing Office & Dispatch
297B	Paint Shop
297C	Sign Shop
297D	Paint Storage
298	Bakery
299	Laundry & Boiler Room
400	Lumber Storage
468	Transportation Shops & Barricks
468A	Service Station
468B	Service Station
468C	Inflammable Storage

Prepared by: Phil Cox and modified by Michael Polenz

Date: 4/21/98

Project No.: 4128-001

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Boring Location Map

Santa Rita Property - Parcel 15

Dublin, California

FIG 2

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Table 1 Santa Rita Property - Parcel 15 Results from Laboratory Analysis of Soil Samples		
Sample Location and Depth	Compound and Concentration (µg/kg)	
	Tetrachloroethene (PCE)	Trichloroethene (TCE)
BH1 (10'-11')	<10	<5
BH2 (16'-17')	<10	<5
BH3 (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

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Table 2

Santa Rita Property - Parcel 15

Results from Laboratory Analysis of Groundwater Samples

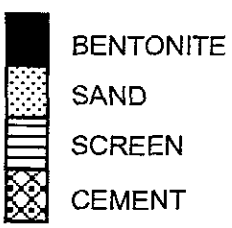
Sample Location	Compound and Concentration (µg/L)			
	Tetrachloroethene (PCE)	Trichloroethene (TCE)	Carbon Tetrachloride	Chloroform
BH1	24	1.0	4.2	5.3
BH2	<1	<1	<1	<1
BH3	<1	<1	<1	<1
BH4	<1	1.1	1.3	5.1
BH5	<1	<1	<1	<1
BH6	120	2.5	17	21
BH7	2.2	<1	1.5	4.5
BH8	25	<1	<1	<1
BH9	280	<1	<1	<1

Note: Only detected compoounds are reported.

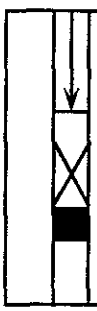
µg/L = micrograms per liter

SYMBOL	LETTER	DESCRIPTION	MAJOR DIVISIONS			
	GW	WELL-GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	CLEAN GRAVELS (LITTLE OR NO FINES)	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO. 4 SIEVE SIZE	COARSE GRAINED SOILS MORE THAN HALF OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE	THE NO. 200 U.S. STANDARD SIEVE IS ABOUT THE SMALLEST PARTICLE VISIBLE TO THE NAKED EYE
	GP	POORLY-GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES				
	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES	GRAVELS WITH FINES (APPRECIABLE AMMOUNT OF FINES)			
	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES				
	SW	WELL-GRADED SAND OR GRAVELLY SANDS, LITTLE OR NO FINES	CLEAN SANDS (LITTLE OR NO FINES	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO. 4 SIEVE SIZE FOR VISUAL CLASSIFIACTION, THE 1/4" SIZE MAY BE USED AS EQUIVELANT TO THE NO. 4 SIEVE SIZE		
	SP	POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES				
	SM	SILTY SANDS, SAND-SILT MIXTURES	SANDS WITH FINES (APPRECIABLE AMMOUNT OF FINES)			
	SC	CLAYEY SANDS, SAND-CLAY MIXTURES				
	ML	INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY	SILTS AND CLAYS (LIQUID LIMIT LESS THAN 50)		FINE GRAINED SOILS MORE THAN HALF OF MATERIAL IS SMALLER THAN NO. 200 SIEVE SIZE	
	CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS				
	OL	ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY				
	MH	ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY	SILTS AND CLAYS (LIQUID LIMIT GREATER THAN 50)			
	CH	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS				
	OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS				
	PT	PEAT AND OTHER HIGHLY ORGANIC SOILS	HIGHLY ORGANIC SOILS			
	ROCK	BEDROCK	BEDROCK			

WELL CONSTRUCTION SYMBOLS



KEY TO SAMPLED INTERVAL



No sample recovered

Recovered sample

Sampled interval submitted to laboratory.

TYPES OF SAMPLERS

SPT	Standard Penetration 1.4" ID Split Spoon Sampler
CS	2" ID Split Spoon Sampler
MC	2.4" ID California Sampler
SH	3.0" ID Thin-Wall (Shelby Tube)
CC	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

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LEGEND FOR BORING LOGS

Versar Inc.	DRILLING LOG	PROJECT NO. 4128-001
Supervising Geologist: Tim Berger		Site Name: Santa Rita - Alameda County
Log By: M. Polenz		Boring No: BH-1
Date: 4/9/98		Boring Diameter: 2-1/4 inch - continuous core (macrocore)
Drilling Contractor: Enprob		Boring Depth: 24-feet
Contractor Lic. No. C57-656504		Boring Location: See figure
Rig Type: Geoprobe		
Driller: Dennis and George		

Depth (ft)	Advanced/ Recovered	Laboratory Sample	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION / SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
2				NA	CL		0'-1' silty CLAY, moderately sorted, 50% clay, 30% silt, 20% very fine sand, dark olive brown, moist, dense, no odor noted, no staining noted, fill material.	
					GP			
4					CH		1'-2' GRAVEL with sand, poorly sorted, 50% fine gravel, 40% medium to coarse sand (mostly coarse), 10% fines, no odor noted, no staining noted, grey-brown, moist, road bed fill material.	
6							2'-5' fat CLAY, 60% clay, 35% silt, 5% very fine sand, (reddish-) brown, moist, dense, firm, no odor noted, no staining noted.	
8							5'-12' Lithology SAA with occasional gravel fragments.	
10								
12								NR
14							12'-16' Lithology SAA, sand content increase to 30%, 45% clay, 25% silt, color change to greenish-olive brown, water encounted at 12' during drilling.	
16								
18							16'-24' Lithology SAA	
20								
22								

Versar Inc.	**DRILLING LOG**	PROJECT NO. 4128-001
Supervising Geologist: Tim Berger		Site Name: Santa Rita - Alameda County
Log By: M. Polenz		Boring No: BH-1
Date: 4/9/98		Boring Diameter: 2-1/4 inch - cont. core - macrocore
Drilling Contractor: Enprob		Boring Depth: 19-feet
Contractor Lic. No. C57-656504		Boring Location: See figure
Rig Type: Geoprobe		
Driller: Dennis and George		

Depth (ft)	Advanced/ Recovered	Laboratory Sample	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
24				NA	CH		22'-24' Lithology SAA End of boring at 24'. Groundwater at 9.4' after drilling. Groundwater sample collected by use of a disposable bailer inside a temporary PVC slotted casing with an outer cloth filtration sock.	
26								
28								
30								
32								
34								
36								
38								
40								
42								
44								

Versar Inc.	**DRILLING LOG**	PROJECT NO. 4128-001
Supervising Geologist: Tim Berger		Site Name: Santa Rita - Alameda County
Log By: M. Polenz		Boring No: BH-2
Date: 4/9/98		Boring Diameter: 1-7/8 inch - largebore, discrete sampler
Drilling Contractor: Enprob		Boring Depth: 18-feet
Contractor Lic. No. C57-656504		Boring Location: See figure
Rig Type: Geoprobe		
Driller: Dennis and George		

Depth (ft)	Advanced/ Recovered	Laboratory Sample	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
2				NA	CL		0'-1' silty CLAY, moderately sorted, 50% clay, 30% silt, 20% very fine sand, dark olive brown, moist, dense, no odor noted, no staining noted, fill material.	
					GP			
4					CH		1'-2' GRAVEL with sand, poorly sorted, 50% fine gravel, 40% medium to coarse sand (mostly coarse), 10% fines, road bed fill material.	
6							2'-9' fat CLAY, 60% clay, 35% silt, 5% very fine sand, brown, moist, dense, firm, no odor noted, no staining noted.	
8								
10							9'-12' fat CLAY, 60%clay, <38% silt, <5% fine sand, brown, moist, dense, no odor noted, no staining noted.	NR
12								
14					CL		12'-14' silty CLAY, 50% clay, 30% silt, 20% fine sand, very light brown, moist, dense, no odor noted, no staining noted.	
16							14'-18' sandy silty CLAY, 40% clay, 30% silt, 30% fine sand, light brown, moist to wet, moderately dense, no odor noted, no staining noted.	NR
18							End of boring at 18'. Groundwater at 10.6' after drilling. Groundwater sample collected by using a disposable bailer in the uncased open borehole. The geologic units shown are extrapolated from BH-1 except where additional stratigraphic data were available from this or adjacent borings.	
20								
22								

Versar Inc.	**DRILLING LOG**	PROJECT NO. 4128-001

Supervising Geologist: Tim Berger	Site Name: Santa Rita - Alameda County
Log By: M. Polenz	Boring No: BH-3
Date: 4/9/98	Boring Diameter: 1-7/8 inch - largebore, discrete sampler
Drilling Contractor: Enprob	Boring Depth: 18-feet
Contractor Lic. No. C57-656504	Boring Location: See figure
Rig Type: Geoprobe	
Driller: Dennis and George	

Depth (ft)	Advanced/ Recovered	Laboratory Sample	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION / SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
2				NA	GP		0'-1' GRAVEL with sand, poorly sorted, 50% fine gravel, 40% medium to coarse sand (mostly coarse), 10% fines, road bed fill material.	
					CH			
4							1'-9' fat CLAY, 60% clay, 35% silt, 5% very fine sand, brown, moist, dense, firm, no odor noted, no staining noted.	
6								
8								
10							9'-12' fat CLAY, 60%clay, <36% silt, <5% fine sand, brown, moist, dense, no odor noted, no staining noted.	
12								
					CL		12'-17' silty CLAY, 50% clay, 30% silt, 20% fine sand, very light brown, moist, dense, no odor noted, no staining noted.	
14								
16								
18					ML		17'-18' clayey SILT, 50% silt, 35% clay, 15% fine sand, light brown, moist, soft, no odor noted, no staining noted.	NR
20							End of boring at 18'. Groundwater at 10.8' after drilling. Groundwater sample collected by using a peristaltic pump inside a temporary stainless steel screen. The geologic units shown are extrapolated from BH-1 except where additional stratigraphic data were available from this or adjacent borings.	
22								

Versar Inc.	DRILLING LOG	PROJECT NO. 4128-001
Supervising Geologist: Tim Berger		Site Name: Santa Rita - Alameda County
Log By: M. Polenz		Boring No: BH-4
Date: 4/9/98		Boring Diameter: 1-7/8 inch - largebore, discrete sampler
Drilling Contractor: Enprob		Boring Depth: 18-feet
Contractor Lic. No. C57-656504		Boring Location: See figure
Rig Type: Geoprobe		
Driller: Dennis and George		

Depth (ft)	Advanced/ Recovered	Laboratory Sample	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION / SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
2				NA	GP		0'-1.5' GRAVEL with sand, poorly sorted, 50% fine gravel, 40% medium to coarse sand (mostly coarse), 10% fines, road bed fill material.	
					CH			
4							1.5'-9' fat CLAY, 60% clay, 35% silt, 5% very fine sand, brown, moist, dense, firm, no odor noted, no staining noted.	
6								
8								
10							9'-13.5' fat CLAY, 60%clay, <36% silt, <5% fine sand, brown, moist, dense, no odor noted, no staining noted.	
12								
14					CL		13.5'-16' sandy silty CLAY, 50% clay, 30% fine sand, 20% silt, olive brown, moist, very dense, no odor noted, no staining noted.	NR
16							16' -18' SAA, soil softens. Advanced core (discrete sampler); upon retreiving core, wet material (sandy CLAY) at top of sampler.	
18							End of boring at 18'. Groundwater at 9' after drilling. Groundwater sample collected by using a disposable bailer in the uncased open borehole. The geologic units shown are extrapolated from BH-1 except where additional data were available from this or adjacent borings.	
20								
22								

Versar Inc.	**DRILLING LOG**	PROJECT NO. 4128-001

Supervising Geologist: Tim Berger	Site Name: Santa Rita - Alameda County
Log By: M. Polenz	Boring No: BH-5
Date: 4/9/98	Boring Diameter: 1-7/8 inch - largebore, discrete sampler
Drilling Contractor: Enprob	Boring Depth: 16-feet
Contractor Lic. No. C57-656504	Boring Location: See figure
Rig Type: Geoprobe	
Driller: Dennis and George	

Depth (ft)	Advanced/ Recovered	Laboratory Sample	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION / SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
2				NA	CL		0'-2' silty CLAY, moderately sorted, 50% clay, 45% silt, 5% very fine sand, dark brown, moist, no odor noted, no staining noted.	
4					CH		2'-9' fat CLAY, 60% clay, 35% silt, 5% very fine sand, brown, moist, dense, firm, no odor noted, no staining noted.	
6								
8								
10							9'-13.5' fat CLAY, 60%clay, <36% silt, <5% fine sand, brown, moist, dense, no odor noted, no staining noted.	
12								
14								
16					CL		13.5'-16' sandy silty CLAY, 50% clay, 30% fine sand, 20% silt, olive brown, moist, very dense, no odor noted, no staining noted.	NR
18							End of boring at 16'. Groundwater at 6.4' after drilling. Groundwater sample collected by using a disposable bailer in the uncased open borehole. The geologic units shown are extrapolated from BH-1 except where additional data were available from this or adjacent borings.	
20								
22								

Versar Inc.	DRILLING LOG	PROJECT NO. 4128-001
Supervising Geologist: Tim Berger	Site Name: Santa Rita - Alameda County	
Log By: M. Polenz	Boring No: BH-6	
Date: 4/9/98	Boring Diameter: 1-7/8 inch - largebore, discrete sampler	
Drilling Contractor: Enprob	Boring Depth: 18-feet	
Contractor Lic. No. C57-656504	Boring Location: See figure	
Rig Type: Geoprobe		
Driller: Dennis and George		

Depth (ft)	Advanced/ Recovered	Laboratory Sample	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION / SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
2				NA	CL		0'-2' silty CLAY, moderately sorted, 50% clay, 30% silt, 20% very fine sand, dark olive brown, moist, very dense, no odor noted, no staining noted, fill material.	
4					CH		2'-10' fat CLAY, 60% clay, 35% silt, 5% very fine sand, brown, moist, dense, firm, no odor noted, no staining noted.	NR
6								
8								
10								
12							10'-12' fat CLAY, 70% clay, 30% silt, medium to dark brown, slightly moist, very dense, no odor noted, no staining noted. 12'-18' fat CLAY, 70% clay, 30% medium brown, slightly moist (lighter color than overlaying layer), very dense, no odor noted, no staining noted.	
14								
16								
18							End of boring at 18'. Groundwater at 6.4' after drilling. Groundwater sample collected by using a peristaltic pump inside a temporary stainless steel screen. The geologic units shown are extrapolated from BH-1 except where additional data were available from this or adjacent borings.	
20								
22								

Versar Inc.	DRILLING LOG	PROJECT NO. 4128-001
Supervising Geologist: Tim Berger		Site Name: Santa Rita - Alameda County
Log By: M. Polenz		Boring No: BH-7
Date: 4/9/98		Boring Diameter: 1-7/8 inch - largebore, discrete sampler
Drilling Contractor: Enprob		Boring Depth: 19-feet
Contractor Lic. No. C57-656504		Boring Location: See figure
Rig Type: Geoprobe		
Driller: Dennis and George		

Depth (ft)	Advanced/ Recovered	Laboratory Sample	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION / SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
2				NA	CL		0'-2' silty CLAY, moderately sorted, 50% clay, 30% silt, 20% very fine sand, dark olive brown, moist, very dense, no odor noted, no staining noted, fill material.	
4					CH		2'-5' fat CLAY, 60% clay, 35% silt, 5% very fine sand, brown, moist, dense, firm, no odor noted, no staining noted.	
6							5'-13' lithology SAA with occasional gravel fragments.	
8								
10								
12								
14							13'-16' soil softens slightly, advanced sampler (discrete) 13'-15'.	NR
16								
18							16'-19' fat CLAY, 70% clay, 30% silt, olive green, moist, very dense, no odor noted, no staining noted.	
20							End of boring at 19'. Groundwater at 16.5' after drilling. Groundwater sample collected by using a disposable bailer in the uncased open borehole. The geologic units are extrapolated from BH-1 except where additional stratigraphic data were available from this or adjacent borings.	
22								

Versar Inc.	DRILLING LOG	PROJECT NO. 4128-001
Supervising Geologist: Tim Berger	Site Name: Santa Rita - Alameda County	
Log By: M. Polenz	Boring No: BH-8	
Date: 4/9/98	Boring Diameter: 1-7/8 inch - largebore, discrete sampler	
Drilling Contractor: Enprob	Boring Depth: 18-feet	
Contractor Lic. No. C57-656504	Boring Location: See figure	
Rig Type: Geoprobe		
Driller: Dennis and George		

Depth (ft)	Advanced/ Recovered	Laboratory Sample	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION / SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
2				NA	CL		0'-2' silty CLAY, moderately sorted, 50% clay, 30% silt, 20% very fine sand, dark olive brown, moist, very dense, no odor noted, no staining noted, fill material.	
4					CH		2'-10' fat CLAY, 60% clay, 35% silt, 5% very fine sand, brown, moist, dense, firm, no odor noted, no staining noted.	
6								
8								
10								
12							10'-12' fat CLAY, 70%clay, 30% silt, medium brown, slightly moist, very dense, no odor noted, no staining noted.	
14					CL		12'-16' silty CLAY, 55%clay, 40% silt, 5% very fine sand, olive green, moist, very dense, no odor noted, no staining noted.	
16							16'-18' silty CLAY w/rock fragments, 70% clay, <30% silt, <2% rock fragments, olive green, moist, dense, no odor noted, no staining noted, rock fragments (<4mm, subangular, white).	
18							18'-? sandy silty CLAY, 40% clay, 30% silt, 30% very fine sand (of which 80% fine, 20% medium grained), olive green, moist, dense no odor noted, no staining noted.	NR
20							End of boring at 18'. Groundwater at 7.6' after drilling. Groundwater sample collected by using a disposable bailer in the uncased open borehole. The geologic units shown are extrapolated from BH-1 except where additional stratigraphic data were available from this or adjacent borings.	
22								

Versar Inc.	DRILLING LOG	PROJECT NO. 4128-001
Supervising Geologist: Tim Berger		Site Name: Santa Rita - Alameda County
Log By: M. Polenz		Boring No: BH-9
Date: 4/9/98		Boring Diameter: 1-7/8 inch - largebore, discrete sampler
Drilling Contractor: Enprob		Boring Depth: 16-feet
Contractor Lic. No. C57-656504		Boring Location: See figure
Rig Type: Geoprobe		
Driller: Dennis and George		

Depth (ft)	Advanced/ Recovered	Laboratory Sample	First Water/ Water Table	Well Construction	USCS Group	Lithology	USCS SOIL DESCRIPTION SOIL CONDITION AND GEOLOGIC INTERPRETATION SOIL TYPE, ROUNDING, SORTING, PERCENT: GRAVEL, SANDS, FINES COLOR, MOISTURE, DENSITY, SECONDARY POROSITY, ODORS, STAINING GEOLOGY: FILL, ALLUVIUM, BEDROCK	Headspace (ppm)
2				NA	CL		0'-2' silty CLAY, moderately sorted, 50% clay, 30% silt, 20% very fine sand, dark olive brown, moist, very dense, no odor noted, no staining noted, fill material.	
4							2'-10' fat CLAY, 60% clay, 35% silt, 5% very fine sand, brown, moist, dense, firm, no odor noted, no staining noted.	
6								
8								
10					CH			
12							10'-14' fat CLAY, 70%clay, 30% silt, medium brown, slightly moist, very dense, no odor noted, no staining noted.	
14								
16					CL		14'-16' silty CLAY w/rock fragments, 65% clay, <35% silt, <2% rock fragments, olive green, moist, dense, no odor noted, no staining noted, rock fragments (<15mm diameter, subangular, white). End of boring at 16'. Groundwater at 9.9' after drilling. Groundwater sample collected by using a disposable bailer in the uncased open borehole.	NR
18								
20								
22								

Versar INC.

ATTACHMENT I

RECEIVED
APR 30 1998

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

SUBJECT: SITE REPORT OF SURVEY.

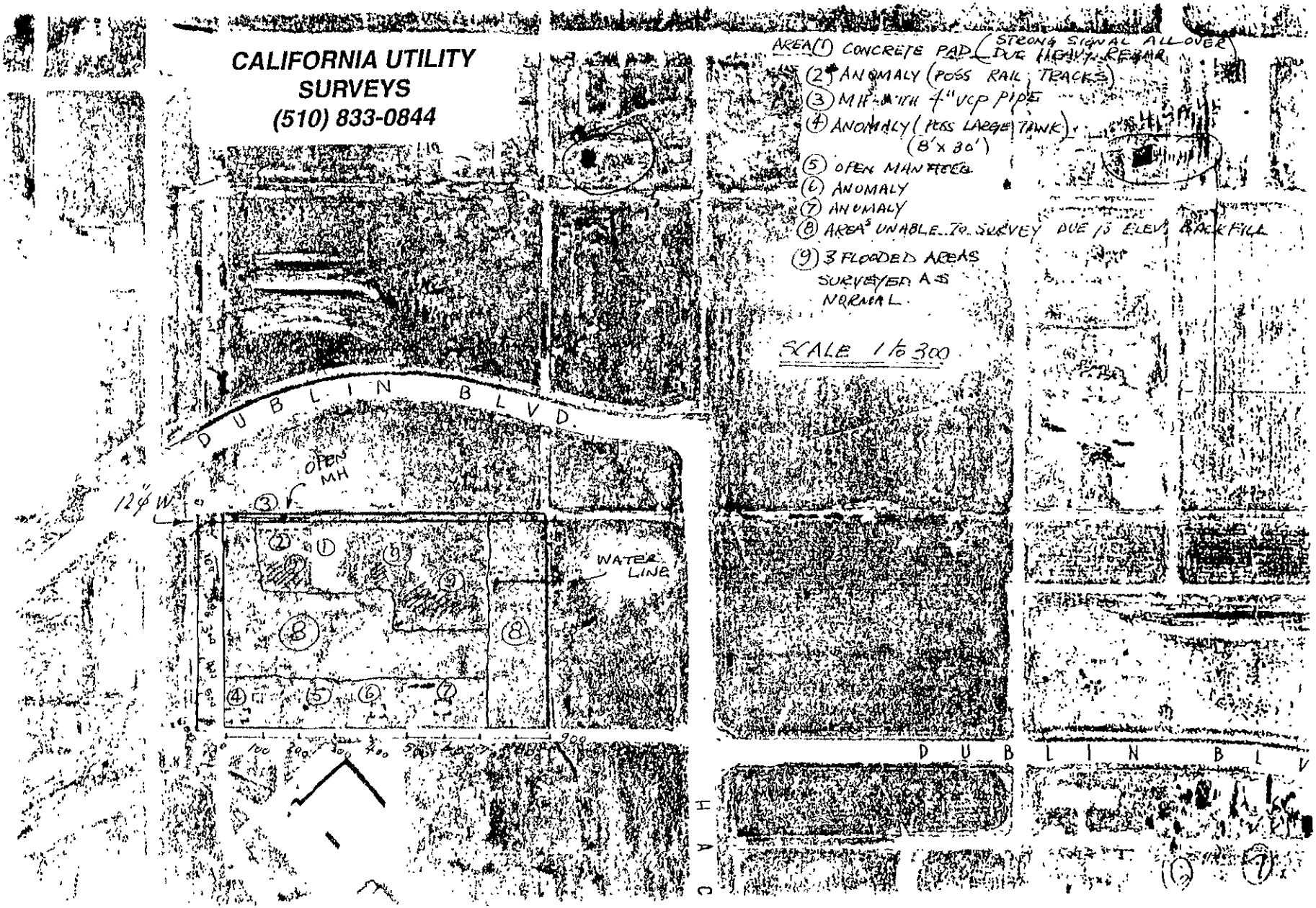
A surface geophysical survey was carried out at the project site consisting of approximately 12 acres of property adjacent to Hacienda and Dublin Blvd., in the city of Dublin, California. The survey was performed during April 2 and April 7 in the year 1998.
A full survey was completed over the site using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

CALIFORNIA UTILITY SURVEYS
3309 EL SUYO DRIVE, SAN RAMON, CA 94583. TEL. (925) 833 - 0844 FAX. (925) 833 - 6987

CALIFORNIA UTILITY SURVEYS
(510) 833-0844



Versar INC.

ATTACHMENT II

McCAMPBELL ANALYTICAL INC.
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: 04/10/98

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

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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: 04/14/98
	Client P.O:	Date Analyzed: 04/14/98

Volatile Organics By GC/MS

EPA method 8260

Lab ID	87948
Client ID	BH1-Water
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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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	4.2	n-Propyl benzene	ND
Chlorobenzene	ND	Styrene [h]	ND
Chloroethane	ND	1,1,1,2-Tetrachloroethane	ND
2-Chloroethyl Vinyl Ether [c]	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	5.3	Tetrachloroethene	24
Chloromethane	ND	Toluene [i]	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	1.0
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 [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	108
trans-1,3-Dichloropropene	ND	Toluene-d8	99
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 0.2ug/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.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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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

EPA method 8260

Lab ID	87949
Client ID	BH1-Soil
Matrix	S

Compound	Concentration*	Compound	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 (d)	ND
Bromomethane	ND	Methylene Chloride (e)	ND<10
n-Butyl benzene	ND	Methyl ethyl ketone (f)	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 (c)	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 (l)	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate (m)	ND
1,2-Dichloroethane	ND	Vinyl Chloride (n)	ND
1,1-Dichloroethene	ND	Xylenes, total (o)	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	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.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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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: 04/14/98
	Client P.O:	Date Analyzed: 04/14/98

Volatile Organics By GC/MS

EPA method 8260

Lab ID	87950
Client ID	BH2-Water
Matrix	W

Compound	Concentration*	Compound	Concentration*
Acetone [o]	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 [a]	ND
Bromomethane	ND	Methylene Chloride [c]	ND
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 Tetrachloride	ND	n-Propyl benzene	ND
Chlorobenzene	ND	Styrene [k]	ND
Chloroethane	ND	1,1,1,2-Tetrachloroethane	ND
2-Chloroethyl Vinyl Ether [e]	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	ND	Tetrachloroethene	ND
Chloromethane	ND	Toluene [l]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	99
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) chloroethene, (o) dimethylbenzenes

DHS Certification No. 1644

Edward Hamilton, Lab Director

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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

EPA method 8260

Lab ID	87951
Client ID	BH2-Soil
Matrix	S

Compound	Concentration*	Compound	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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND<10
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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 [h]	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 [i]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	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; 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 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

EPA method 8260

Lab ID	87952
Client ID	BH3-Soil
Matrix	S

Compound	Concentration*	Compound	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 [d]	ND
Bromomethane	ND	Methylene Chloride [c]	ND<10
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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 [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 [l]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	87
trans-1,3-Dichloropropene	ND	Toluene-d8	88
Ethylene dibromide	ND	4-Bromofluorobenzene	91

*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 Received: 04/10/98
	Client Contact: Michael Poland	Date Extracted: 04/14/98
	Client P.O:	Date Analyzed: 04/14/98

Volatile Organics By GC/MS

EPA method 8260

Lab ID	87953
Client ID	BH3-Water
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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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 [h]	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 [i]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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) chloroethene; (o) dimethylbenzenes.

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		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

EPA method 8260

Lab ID	87954
Client ID	BH4-Soil
Matrix	S

Compound	Concentration*	Compound	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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND<10
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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 [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 [l]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	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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		Date Received: 04/10/98
	Client Contact: Michael Poland	Date Extracted: 04/14/98
	Client P.O:	Date Analyzed: 04/14/98

Volatile Organics By GC/MS

EPA method 8260

Lab ID	87955
Client ID	BH4-Water
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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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	1.3	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	5.1	Tetrachloroethene	ND
Chloromethane	ND	Toluene [l]	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	1.1
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 [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	
1,1-Dichloropropene	ND	**Surrogate Recoveries (%)**	
cis-1,3-Dichloropropene	ND	Dibromofluoromethane	99
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) chloroethene; (o) dimethylbenzenes.

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		Date Received: 04/10/98
	Client Contact: Michael Poland	Date Extracted: 04/14/98
	Client P.O:	Date Analyzed: 04/14/98

Volatile Organics By GC/MS

EPA method 8260

Lab ID	87956
Client ID	BH5-Water
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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND
n-Butyl benzene	ND	Methyl ethyl ketone [f]	ND
sec-Butyl benzene	ND	Methyl isobutyl ketone [g]	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	1,1,1,2-Tetrachloroethane	ND
2-Chloroethyl Vinyl Ether[c]	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	ND	Tetrachloroethene	ND
Chloromethane	ND	Toluene [l]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	101
trans-1,3-Dichloropropene	ND	Toluene-d8	99
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) chloroethene, (o) dimethylbenzenes.

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		Date Received: 04/10/98
	Client Contact: Michael Poland	Date Extracted: 04/10/98
	Client P.O:	Date Analyzed: 04/13-04/15/98

Volatile Organics By GC/MS

EPA method 8260

Lab ID	87957
Client ID	BH5-Soil
Matrix	S

Compound	Concentration*	Compound	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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND<10
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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 [h]	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 [i]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	87
trans-1,3-Dichloropropene	ND	Toluene-d8	88
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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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

EPA method 8260

Lab ID	87958
Client ID	BH6-Soil
Matrix	S

Compound	Concentration*	Compound	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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND<10
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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 [h]	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 [l]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	84
trans-1,3-Dichloropropene	ND	Toluene-d8	90
Ethylene dibromide	ND	4-Bromofluorobenzene	95

*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 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: 04/14-04/15/98
	Client P.O:	Date Analyzed: 04/14-04/15/98

Volatile Organics By GC/MS

EPA method 8260

Lab ID	87959
Client ID	BH6-Water
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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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	17	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	21	Tetrachloroethene	120
Chloromethane	ND	Toluene [l]	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	2.5
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 [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	102
trans-1,3-Dichloropropene	ND	Toluene-d8	99
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 0.2ug/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 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

EPA method 8260

Lab ID	87960
Client ID	BH7-Soil
Matrix	S

Compound	Concentration*	Compound	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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND<10
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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 [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 [l]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	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 0.2ug/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 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: 04/14/98
	Client P.O:	Date Analyzed: 04/14/98

Volatile Organics By GC/MS

EPA method 8260

Lab ID	87961
Client ID	BH7-Water
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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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	1.5	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	4.5	Tetrachloroethene	2.2
Chloromethane	ND	Toluene [l]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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-Bromofluorobenzene	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 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

EPA method 8260

Lab ID	87964
Client ID	BH8-C-Soil
Matrix	S

Compound	Concentration*	Compound	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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND<10
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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 [h]	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 [l]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	89
trans-1,3-Dichloropropene	ND	Toluene-d8	89
Ethylene dibromide	ND	4-Bromofluorobenzene	91

*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 Received: 04/10/98
	Client Contact: Michael Poland	Date Extracted: 04/15/98
	Client P.O:	Date Analyzed: 04/15/98

Volatile Organics By GC/MS

EPA method 8260

Lab ID	87967
Client ID	BH8-C-Water
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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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 [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	25
Chloromethane	ND	Toluene [l]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	
1,1-Dichloropropene	ND	**Surrogate Recoveries (%)**	
cis-1,3-Dichloropropene	ND	Dibromofluoromethane	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-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.

DHS Certification No. 1644

Edward Hamilton, Lab Director

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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

EPA method 8260

Lab ID	87965
Client ID	BH9-14-14.5
Matrix	S

Compound	Concentration*	Compound	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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND<10
n-Butyl benzene	ND	Methyl ethyl ketone [f]	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 [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	33
Chloromethane	ND	Toluene [l]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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	84
trans-1,3-Dichloropropene	ND	Toluene-d8	91
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) chloroethene, (o) dimethylbenzenes

DHS Certification No. 1644 Edward Hamilton, Lab Director

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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: 04/14-04/15/98
	Client P.O:	Date Analyzed: 04/14-04/15/98

Volatile Organics By GC/MS

EPA method 8260

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 [d]	ND
Bromomethane	ND	Methylene Chloride [e]	ND
n-Butyl benzene	ND	Methyl ethyl ketone [f]	ND
sec-Butyl benzene	ND	Methyl isobutyl ketone [g]	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	1,1,1,2-Tetrachloroethane	ND
2-Chloroethyl Vinyl Ether [c]	ND	1,1,2,2-Tetrachloroethane	ND
Chloroform	ND	Tetrachloroethene	280
Chloromethane	ND	Toluene [j]	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
1,4-Dichlorobenzene	ND	1,2,4-Trimethylbenzene	ND
Dichlorodifluoromethane	ND	1,3,5-Trimethylbenzene	ND
1,1-Dichloroethane	ND	Vinyl Acetate [m]	ND
1,2-Dichloroethane	ND	Vinyl Chloride [n]	ND
1,1-Dichloroethene	ND	Xylenes, total [o]	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-Bromofluorobenzene	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

DHS Certification No. 1644 Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.
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QC REPORT FOR VOCs (EPA 8240/8260)

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

Analyte	Concentration (ug/kg,u Sample (#87966)	MS	MSD	Amount Spiked	% Recovery 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

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

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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QC REPORT FOR VOCs (EPA 8240/8260)

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

Analyte	Concentration (ug/kg,u Sample (#87950)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
1,1-Dichloroethe	0	78	80	100	78	80	2.5
Trichloroethene	0	78	80	100	78	80	2.5
EDB	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Chlorobenzene	0	105	106	100	105	106	0.9
Benzene	0	111	111	100	111	111	0.0
Toluene	0	106	106	100	106	106	0.0

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

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

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QC REPORT FOR VOCs (EPA 8240/8260)

Date: 04/13/98 Matrix: SOIL

Analyte	Concentration (ug/kg,u Sample (#80336)	MS	MSD	Amount Spiked	% Recovery MS	MSD	RPD
1,1-Dichloroethe	0	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	0	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

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

RPD = (MS - MSD) / (MS + MSD) x 2 x 100

TCRA INC.

CHAIN OF CUSTODY RECORD

10942 AVO 46.doc

PROJECT NO.	PROJECT NAME
4128-001	Sta Rita Parcel 15 – Alameda County GSA

SAMPLERS: (Signature)	(Printed)
Michael Polenz	M. Polenz

	FIELD SAMPLE NUMBER	DATE 1998	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	PCE/TCE by 8260 (full 8260 target list)	PARAMETERS	INDUSTRIAL HYGIENE SAMPLE Y/N	REMARKS
+2	BH 1-water	4-9	10:30		X		2	X	87948		Water samples – 2 VOAs
	BH 1-soil	"	10:00		X		1	X	87949		soil
+2	BH 2-water	"	11:30		X		2	X	87950		
	BH2-soil	"	"		X		1	X	87951		
	BH3-soil	"	12:12		X		1	X	87952		
+2	BH3-water	"	12:30		X		2	X	87953		
	BH4-soil	"	13:30		X		1	X	87954		
5+	BH4-water	"	13:30		X		3	X	87955		
+	BH5-water	"	14:10		X		2	X	87956		
	BH5-soil	"	14:10		X		1	X	87957		
	BH6-soil	"	14:54		X		1	X	87958		
+	BH6-water	"	15:10		X		2	X	87959		

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
M. Polenz	4-10-98 10:50			4/10/98 1255	Heidi Ticca
(Printed) M. Polenz		(Printed)	(Printed)		(Printed) H. Ticca

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
(Printed)				Please replace sampling containers, as agreed on phone. Please include foam pads for VOAs – 3 day TAT

ICE/ ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
PRESERVATION APPROPRIATE CONTAINERS ✓

VOAS | O&G | METALS | OTHER

Distribution: Original Plus One Accompanying Shipment (white and yellow); Copy to Coordinator Field Files (pink).

Versar INC.

CHAIN OF CUSTODY RECORD

10942 XVCT96.doc

PROJECT NO.	PROJECT NAME
4128-001	Sta Rita Parcel 15 - Alameda County G.S.A.

SAMPLERS: (Signature)	(Printed)
M. Polen	Michael Polen

FIELD SAMPLE NUMBER	DATE '98	TIME	COMP.	GRAB	STATION LOCATION	NO. OF CONTAINERS	TCE & PCE by 8260	Full 8260 requested								REMARKS
BH7 - soil	4-9	16:12		X		1	X									87960
+ BH7 - water	"	16:30		X		1	X									87961
+2 BH8 - gw	"	17:10		X		2									HOLD	87962
BH8-b-soil	"	17:30		X		1									"	87963
BH8-c-soil	"	17:50		X		1	X									87964
BH9-14-14.5	"	19:10		X		1	X									87965
+ BH9-gw	"	"		X		2	X									87966
5+ BH8-C water	"	17:50		X		2									~~Hold~~	87967

VOAs | O&G | METALS | OTHER

CE/ICE ✓
GOOD CONDITION ✓
HEAD SPACE ABSENT ✓
PRESERVATION APPROPRIATE ✓
CONTAINERS ✓

Relinquished by: (Signature)	Date / Time	Received by: (Signature)	Relinquished by: (Signature)	Date / Time	Received by: (Signature)
M. Polen	4-10 / 10:50	#650		4/10/98 / 1255	H. Ricca
(Printed) M. Polen		(Printed)	(Printed)		(Printed) H. Ricca

Relinquished by: (Signature)	Date / Time	Received for Laboratory by: (Signature)	Date / Time	Remarks
(Printed)		(Printed)		

Distribution: Original Plus One Accompanies Shipment (white and yellow); Copy to Coordinator Field Files (pink).