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CCOC Project No. 94-42871-04
OCHCA Case No. 94IC29
May 18, 1995

SUMMARY REPORT OF ADDITIONAL SITE CHARACTERIZATION

Fullerton Business Park North
Fullerton, California

May 18/95

Prepared For:

Mr. Louis Lodrigueza
Orange County Health Care Agency
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May 18, 1995

Mr. Louis Lodrigueza
Orange County Health Care Agency
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Santa Ana, California 92705

Subject: **SUMMARY REPORT II OF ADDITIONAL SITE CHARACTERIZATION**
Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California
OCHCA Case No. 94IC29
Converse Project No. 94-42871-04

Dear Mr. Lodrigueza:

Converse Consultants Orange County (Converse), on behalf of Red Eagle Properties, is pleased to present this summary report for additional site characterization activities for the above-referenced property. This investigation was conducted at your request in an attempt to further assess the lateral and vertical extent of previously identified subsurface tetrachloroethene (PCE) contamination, and investigate the potential impact to ground water.

Converse understands that submittal and approval of a corrective action plan (CAP) is required prior to remediating the previously identified subsurface soil contamination located on the subject property.

If you have any questions, please contact Henry Ames at (714) 453-2880.

Sincerely,

CONVERSE CONSULTANTS ORANGE COUNTY

Henry B. Ames
Project Geologist

Thomas J. Scheil, RGE 753
Vice President and
Principal Engineer

CJC/HBA/GSS/TJS

Distribution: 2/Addressee
1/Mr. Augustine Anijielo, Santa Ana Regional Water Quality Control Board
2/Mr. Carl Ross, Red Eagle Properties
1/Mr. Mark Boen, Red Eagle Properties

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1.0 INTRODUCTION

1.1 Site Description

The subject site, known as the Fullerton Business Park North, is located on the north side of Orangethorpe Avenue between Acacia and Raymond Avenues in the City of Fullerton, California. The site is relatively level with a surface elevation of 175 feet above mean sea level. For Vicinity Map, see Figure No. 1.

The site currently contains five buildings. Two buildings located in the northeast corner of the site are used for research and development. The third and fourth buildings, located in the southwest and southeast corners of the site, are used as multitenant office buildings. The fifth and largest building is located in the northeast corner of the site, and is generally used as a warehouse for miscellaneous items. For Site Layout Map, see Figure No. 2. For Investigation Area, see Figure No. 3.

1.2 Geology and Hydrogeology

The site is located in the northern portion of Orange County. Surficial deposits at the site are Holocene age alluvial and colluvial deposits (U.S.G.S., 1981) originating as river deposits from the Santa Ana River, located about 2 miles east to southeast of the site, and detritus from the nearby Coyote Hills located about 1 mile north of the site. Although the Santa Ana River is currently channelized, it historically encompassed a relatively large flood plain, including the subject site.

The previous contaminant characterization work conducted at the site was limited to a depth of 40 feet below ground surface (bgs), the maximum depth probed. The subsurface soils generally consist of sand from the surface to about 15 feet bgs, underlain by sandy clays to clayey silts to about 20 feet bgs, underlain by a silty sand that varies in depth from 25 to 30 feet bgs, underlain by interbedded sandy and clayey silts to about 35 feet bgs, underlain by sand to about 40 feet bgs. Bed thicknesses varying with distance resulting in undulating contacts between soil types, and in many cases, soil layers are not laterally continuous in an east-west direction. Geologic cross sections A-A' and B-B' (Figure Nos. 4 and 5) generally depict the subsurface stratigraphy.

The site is located on the northern edge of the Talbert water-bearing zone (aquifer). In the vicinity of the site, the surface of the Talbert aquifer is reportedly at about 60 to 90 feet bgs, and ranges in thickness from about 60 to 100 feet (U.S. Department of the Interior, 1959). Regional groundwater flow direction in the Talbert Aquifer is southerly towards the Santa Ana Gap and the Pacific Ocean.

1.3 Background

Two onsite clarifiers were discovered during a previous Preliminary Site Assessment of the subject property conducted by Converse in 1992. The clarifiers were located in the northeast

section of the property, on the south east side of the existing warehouse. The clarifiers were removed in September 1994. Chemical analyses of soil samples collected during the clarifier removals indicated elevated Total Recovery Petroleum Hydrocarbons (TRPH) and Tetrachloroethene (PCE) concentrations (Converse, 1994a) from soil adjacent to the southern-most clarifier. Converse recommended further investigation to assess the extent of PCE-impacted soil in the vicinity of this clarifier.

Between October and December, 1994, Converse advanced seven (7) soil borings (BH-1 through BH-7) using a Geoprobe Systems sampling technique. Boring BH-1 was located in the center of the removed clarifier. Borings BH-2 through BH-4 were located approximately 4 to 5 feet away from the clarifier on each side. Borings BH-6 and BH-7 were located further away from the clarifier on the north and south sides. See Figure No. 3 for boring locations. Initial depths of 15 feet below ground surface (bgs) were targeted for investigation. Borings from which the 15' bgs soil sample exhibited elevated levels of PCE (determined using chemical analyses by an onsite mobile laboratory) were advanced deeper with soil samples obtained at five-foot intervals (borings BH-1, BH-2, BH-3, BH-5, and BH-7). Detectable PCE concentrations were reported in soil samples from each boring except for borings BH-4 and BH-6. Relatively high PCE concentrations were reported in samples from boring BH-5 (from 84,500 to 96,000 µg/kg).

In January, 1995, Converse advanced nine (9) additional soil borings (BH-4A through BH-6A and BH-8 through BH-13) in the vicinity of the removed clarifier in an attempt to further assess the vertical and lateral extent of PCE-impacted soil. Borings were again advanced using a Geoprobe Systems sampling technique. Borings BH-4A, BH-5A and BH-6A were located directly adjacent to former borings BH-4, BH-5 and BH-6 to confirm previous results. The remainder of the borings were located north and west of the former clarifier, with borings BH-10, BH-12 and BH-13 located inside the adjacent warehouse. See Figure No. 3 for boring locations. Boring locations were based on reported PCE concentrations in soil from the December 1994 investigation.

In summary, relatively high PCE concentrations were reported in soil samples from borings BH-5A and BH-8, located west and northwest of the former clarifier. Samples from the remainder of the sample locations contained detectable PCE concentrations, although at relatively lower concentrations than in soil from BH-5A and BH-8. The highest reported PCE concentrations in each boring occurred consistently between about 20 and 25 feet bgs, within samples from the silty sand unit. Most of the sample locations reported interspersed detectable and nondetectable PCE concentrations with depth, which has been attributed to the non-uniform subsurface geology. Only five of the ten soil samples collected from a depth of 40 feet bgs reportedly contained detectable PCE concentrations (ranging from 16 to 52 µg/kg: borings BH-4A, BH-5A, BH-10, BH-11 and BH-12).

Table 1 summarizes the previous chemical analyses results.

1.4 Scope of Work and Objectives

The initial scope of work for this phase of the exploration included the drilling and sampling of two soil borings (BH-14 and BH-15), located east and west of the former clarifier, to the groundwater table. Soil samples collected at 5-foot intervals from the surface to 40 feet bgs were used for lithologic descriptions. Selected soil samples from 40 feet bgs to the groundwater table were submitted to Del Mar Laboratory for chemical analyses to further assess the vertical extent of PCE-impacted soil. Based on an assumed depth to groundwater of 60 feet bgs, and given the deepest known PCE-impacted soil at 40 feet, it was considered that groundwater might be impacted; therefore, Converse proposed to convert both borings to groundwater monitoring wells. However, groundwater was not encountered until approximately 115 feet bgs, and approximately 50 feet of non-impacted PCE soil was identified directly above the groundwater table. It was therefore concluded that groundwater would not be impacted, and neither of the proposed groundwater monitoring wells were installed.

Converse acquired boring permits from the Orange County Health Care Agency, Water Quality Section for the two borings drilled (BH-14 and BH-15).

2.0 FIELD INVESTIGATION

2.1 Soil Sampling Program

On March 2, 1995, Converse advanced boring BH-14 using a hollow stem, continuous flight auger (HSA) drill rig with the intent of installing a ground water monitoring well based on the assumption that ground water was approximately 60 feet bgs. Boring BH-14 was located approximately 10 feet east of the former clarifier. The boring was drilled to a total depth of approximately 120 feet bgs with free ground water encountered at approximately 114 feet bgs. Soil samples were collected at 5 foot intervals starting at 5 feet bgs for chemical analyses and lithologic description. Soils were described in accordance with the United Soil Classification System (USCS) by an experienced Converse geologist. Soil from each 5-foot sample interval was also field screened for Volatile Organic Compounds (VOCs) using an organic vapor analyzer (OVA).

Based on a vertical limit of PCE-impacted soil at about 45 feet bgs, the possibility for groundwater at 65-foot depth to be impacted was sufficient enough to warrant the installation of a groundwater monitoring well. However, due to the unanticipated depth to ground water at 114 feet bgs, the potential for the PCE contamination to impact the ground water was considered unlikely given that almost 50 feet of non-impacted soil between the identified base of the PCE-impacted soil and groundwater (as identified by non-detectable PCE concentrations; see Section 2.2). Therefore, Converse elected not to convert the boring into a ground water monitoring well.

On March 7, 1995, Converse drilled a second boring (BH-15), located inside the adjacent warehouse, using a limited access hollow stem auger drill rig. The boring was drilled to a total depth of 115 feet bgs in an effort to more fully assess the vertical boundaries of PCE-impacted soil. Soil samples were collected at 5 foot interval starting at 5 feet bgs. Soil from each 5-foot sample interval was again field screened for VOCs using an OVA. Soil samples collected from both borings were properly sealed, labeled, entered on a chain-of-custody record, and delivered to Del Mar Analytical, Irvine, California.

Converse's field methodologies are detailed in Appendix A. Boring logs for borings BH-14 and BH-15 are included in Appendix B.

2.2 Chemical Analyses

Chemical analysis was performed by Del Mar Analytical, a State of California, Department of Health Services (DHS) certified laboratory.

A total of 23 soil samples collected from depths of 40 feet bgs or greater were selected for chemical analyses. The remainder of the samples were placed on hold. Each of these 23 samples were tested for Purgeable Halocarbons (including PCE) by EPA Test Method 8010 and/or for Total Recoverable Petroleum Hydrocarbons (TRPH, or heavy hydrocarbons) using EPA Test Method 418.1. The analytical results are summarized in Table 2.

The analytical results from the soil samples collected from depths between 40 and 55 feet bgs (borings BH-14 and BH-15) revealed PCE concentrations between non-detect (5 samples) and 23 ppb.

The highest reported PCE concentrations in borings BH-14 and BH-15 occurred consistently at 60 feet bgs (110 and 180 ppb respectively). Boring BH-14 had detectable PCE concentrations of 11 ppb at 55 feet bgs with non-detect from 65 feet to 105 feet bgs. The soil samples analyzed from boring BH-15 had no detectable PCE contamination at 55 feet bgs, 7.7 ppb at 65 feet bgs, with non-detectable concentrations from 70 feet to 105 feet bgs.

An approximately 10 to 15-foot thick silty clay was encountered starting at about 55 feet bgs in boring BH-14 and about 62 feet bgs in boring BH-15. Because of the thickness of this clay unit and given the detectable PCE concentrations reported in the vicinity of 60 feet in each boring, underlain by soils with nondetectable PCE concentrations, Converse had one soil sample tested for permeability (ASTM Method D5084-90, for the measurement of hydraulic conductivity of saturated porous materials - using a flexible wall permeameter). The soil sample collected from 62.5 feet bgs (boring BH-14) revealed a laboratory permeability of 1.4×10^{-6} centimeters per second (cm/sec).

None of the 16 soils samples submitted for TRPH analyses (from boring BH-14 and BH-15) were reported as having detectable TRPH concentrations.

The laboratory reports and chain-of-custody records are included in Appendix C.

3.0 FINDINGS, CONCLUSIONS, AND RECOMMENDATIONS

3.1 Findings and Conclusions

In general, the subsurface soil conditions to about 40 feet bgs in the vicinity of the former clarifier (as defined by borings BH-1 through BH-15) generally consist of the following:

Depths	Soil Type
0 - 15	Sand
15 - 20	Sandy Clay grading with depth to Clayey Silt
20 - 25 or 30	Silty Sand
25 or 30 - 35	Clayey to Sandy Silt with interbeds of Silty Clay
35 - 40	Sand

Bed thicknesses varying with distance resulting in undulating contacts between soil types. In many cases, beds are not laterally continuous in an east-west direction. Geologic cross sections A-A' and B-B' (Figure Nos. 4 and 5) generally depict the subsurface stratigraphy to 40 feet bgs.

Subsurface soil conditions from 40 to 115 feet bgs, as defined by borings BH-14 and BH-15, include interbedded sands and silty sands to about 60 feet, underlain by a 10 to 15-foot thick silty clay having a tested permeability of 1.4×10^{-9} cm/sec. Soils beneath this silty clay consist of interbedded sandy silts, silty sands, and sandy clays to a depth of about 115 feet, where fine-grained, saturated sand is encountered.

Ground water was encountered in both borings at a depth of about 115 feet bgs. It is assumed this groundwater is the Talbert Aquifer. A thin, perched groundwater unit was encountered at 60 feet bgs in boring BH-15. This groundwater was perched on top of the relatively impermeable clay located at about 60 feet bgs. Given the recent heavy rains, it is possible that this groundwater unit is ephemeral, rather than perennial. The perched groundwater was not identified in boring BH-14.

The highest reported PCE concentrations in borings BH-14 and BH-15 occurred consistently at about 60 feet bgs in soil directly above an approximately 10 to 15-foot thick, relatively impermeable clay. Approximately 50 feet of soil with non-detectable PCE-concentrations were identified beneath the relatively impermeable clay and above the groundwater table. Based on these data, we have concluded that groundwater beneath the site has NOT been impacted by a release of PCE from the former clarifier, and the base of the PCE-impacted soil is defined at about 60 feet bgs.

The higher reported PCE concentrations (greater than 180 ppb) in samples analyzed from the site appear to be within the top 35 feet of soil, with the highest concentrations reported in samples from near the middle to the base of the silty sand located at about 20 to 25 or 30 feet bgs, and the top of the clays and silts that directly underlie the silty sand. It is believed that the silts and clays located at about 25 or 30 to 35 feet bgs have acted as a partial barrier to the downward migration of the bulk of the contamination, and may have contributed to some minor lateral migration along the tops of these units.

The lateral extent of PCE-impacted soil has not been defined to a non-detectable level. However, it has been determined that soil above 40 feet bgs, with relatively high PCE concentrations (in excess of 1,000 μg/kg) is confined to an area within approximately 25 feet of the former clarifier, and soil with PCE concentrations greater than about 50 μg/kg has been defined to an area within approximately 50 feet of the former clarifier.

3.2 Recommendations

Based on the results of this and previous investigations, Converse does not believe that additional site assessment work in the vicinity of the former clarifier is warranted, and that the site has been sufficiently characterized so that remediation activities can be initiated. In order to initiate remediation, Converse understands OCHCA requires the submittal of a Corrective Action Plan (CAP) detailing the proposed remediation activities.

At this time, and based on the results obtained to date, Converse recommends remediation of the PCE impacted soils by implementing a soil vapor extraction and granular activated carbon treatment methodology. With your concurrence, under the direction of Red Eagle Properties, Converse is prepared to submit a CAP describing the proposed extraction location(s) and treatment equipment specifications for the implementation of a soil vapor extraction system. The proposed remedial system will be designed to attempt to mitigate the PCE soil contamination to a depth of 40 feet bgs.

4.0 LIMITATIONS

The findings presented herein are based on our evaluation of currently available data and were prepared in accordance with generally accepted environmental principles common to the local area in which we practice. We make no other warranty, either express or implied.

Converse is not responsible for the accuracy of information provided by others. This report should not be regarded as a guarantee that no subsurface contamination is present at the property beyond what has been disclosed. There may be subsurface conditions that cannot be reasonably predicted with the services performed to-date.

REFERENCES

REFERENCES

Converse Consultants Orange County, 1994a, Clarifier Removal and Soil Analysis, Fullerton Business Park North, dated October 18, 1994.

Converse Consultants Orange County, 1994b, Site Characterization Summary Report, Fullerton Business Park North, dated November 11, 1994.

Converse Consultants Orange County, 1995, Summary Report, Additional Site Characterization, Fullerton Business Park North, dated January 26, 1995.

United States Geological Society, 1981, Geologic Map of Orange County, California, Showing Mines and Mineral Deposits, Scale 1:48,000, dated 1981.

United States Department of the Interior, 1959, Hydrology of the Long Beach-Santa Ana Area, California, Geological Survey Water-Supply Paper 1471, dated 1959

TABLES

Table 1
SUMMARY OF PREVIOUS PCE CHEMICAL ANALYSES RESULTS
(Concentrations listed in micrograms per kilogram ((ppb))

Sample Depth (feet)	BOREHOLE IDENTIFICATION															
	BH-1	BH-2	BH-3	BH-4	BH-4A	BH-5	BH-5A	BH-6	BH-6A	BH-7	BH-8	BH-9	BH-10	BH-11	BH-12	BH-13
15	ND	3,500	270	ND	---	84,500	---	ND	---	130	32,000	ND	570	31	190	140
20	17	320	ND	---	ND	96,000	---	---	ND	330	26,000	ND	ND	19	ND	16
25	ND	1,950	8,900	---	12	88,000	---	---	20	ND	92,000	18,000	ND	100	41	13
30	38	ND	---	---	23	---	17,500	---	56	---	15,000	ND	ND	29	11	ND
35	ND	ND	---	---	29	---	1,070	---	ND	---	ND	NO	ND	ND	ND	ND
40	ND	ND	---	---	52	---	28	---	ND	---	ND	ND	45	16	50	ND
Date Sampled	10/94	12/94	12/94	12/94	1/95	12/94	1/95	12/94	1/95	~~1/95~~ 12/94	1/95	1/95	1/95	1/95	1/95	1/95

Table 2
SUMMARY OF SOIL SAMPLE CHEMICAL ANALYSES

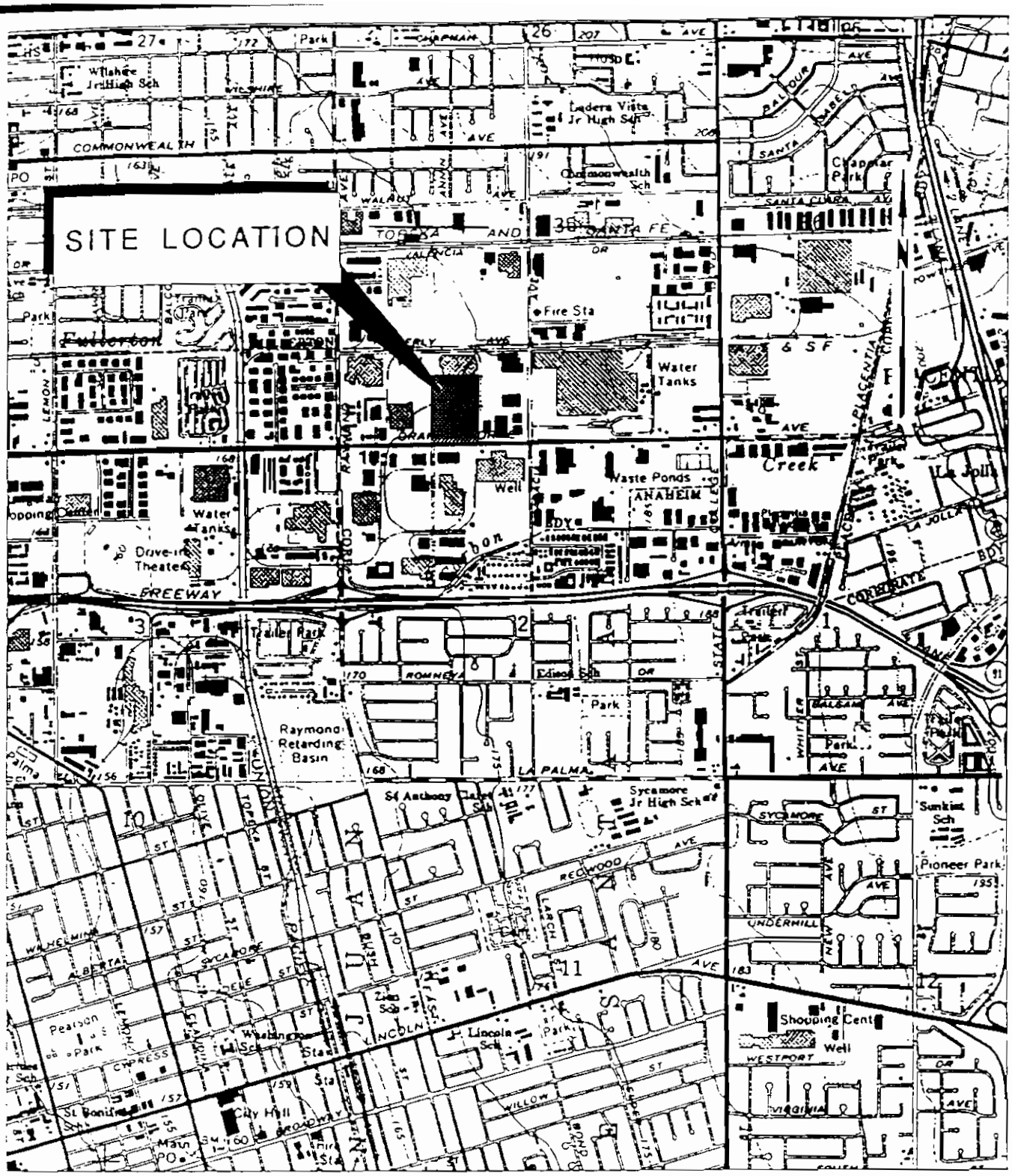
Sample ID	Sample Depth (Feet)	Soil Type	TRPH (mg/kg)	Purgeable Halocarbons (μg/kg)			
				PCE	TCE	1,1,1-TCA	1,1-DCE
BH-14/6	30	silty clay	---	---	---	---	---
BH-14/7	35	sand	---	---	---	---	---
BH-14/8	40	sandy silt	ND	23	19	ND	8.8
BH-14/9	45	sand	ND	ND	ND	ND	ND
BH-14/10	50	sand	---	ND	ND	ND	ND
BH-14/11	55	sand	ND	11	20	ND	ND
BH-14/12	60	silty clay	---	110	110	6.8	50
BH-14/13	65	sandy silt	ND	ND	23	ND	19
BH-14/14	70	silty clay	---	ND	8.2	ND	11
BH-14/15	75	silty clay	ND	ND	6.3	ND	6.7
BH-14/16	80	silty sand	---	---	---	---	---
BH-14/17	85	silty clay	ND	ND	91	ND	7.5
BH-14/18	90	sandy silt	---	---	---	---	---
BH-14/19	95	silty clay	ND	ND	ND	ND	ND
BH-14/20	100	silty sand	---	---	---	---	---
BH-14/21	105	silty clay	ND	ND	180	ND	19

Table 2
SUMMARY OF SOIL SAMPLE CHEMICAL ANALYSES

Sample ID	Sample Depth (Feet)	Soil Type	TRPH (mg/kg)	Purgeable Halocarbons (μg/kg)			
				PCE	TCE	1,1,1-TCA	1,1-DCE
BH-15/8	40	sandy silt	ND	ND	91	ND	ND
BH-15/9	45	sand	ND	ND	ND	ND	ND
BH-15/11	55	sand	ND	ND	ND	ND	ND
BH-15/12	60	sandy silt	---	180	230	ND	160
BH-15/13	65	sandy silt	ND	7.7	55	ND	20
BH-15/14	70	silty clay	---	ND	20	ND	13
BH-15/15	75	sandy silt	ND	ND	ND	ND	ND
BH-15/16	80	silty sand	---	---	---	---	---
BH-15/17	85	sandy silt	ND	ND	110	ND	29
BH-15/18	90	silty sand	---	---	---	---	---
BH-15/19	95	silty sand	ND	ND	420	ND	56
BH-15/20	100	sand	---	---	---	---	---
BH-15/21	105	clayey silt	ND	ND	160	ND	ND
Detection Limit			5.0	5.0	5.0	5.0	5.0

PCE - Tetrachloroethene
TCE - Trichloroethene
1,1,1-TCA - 1,1,1-Trichloroethane
1,1-DCE - 1,1-Dichloroethene
TRPH - Total Recoverable Petroleum Hydrocarbons
μg/kg - micrograms per kilogram (roughly equivalent to parts per billion (ppb))
mg/kg - milligrams per kilogram (roughly equivalent to parts per million (ppm))
ND - concentration not detected at or above the laboratory's detection limit (shown at bottom of Table 2)
--- Sample not tested for analyte

FIGURES



Reference: U.S.G.S Topographic Map, 7.5 Minute Series, Anaheim, California Quadrangle, Dated 1965, (Photorevised 1981).

0 2000 4000

SCALE IN FEET

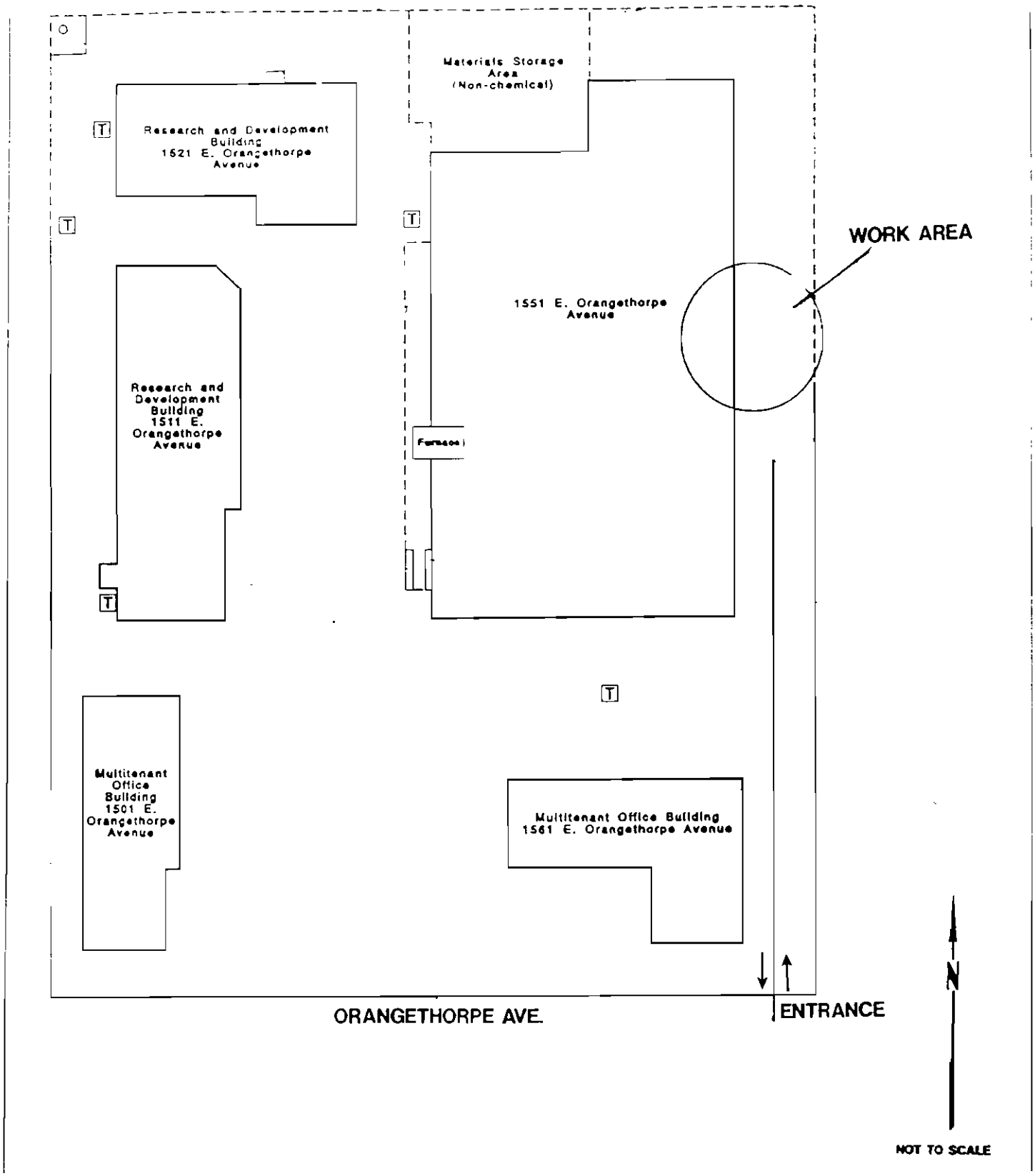
VICINITY MAP

SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No.
94-42871-04

Converse Consultants Orange County
Geotechnical Engineering and Applied Sciences

Figure No.
1



SITE LAYOUT MAP

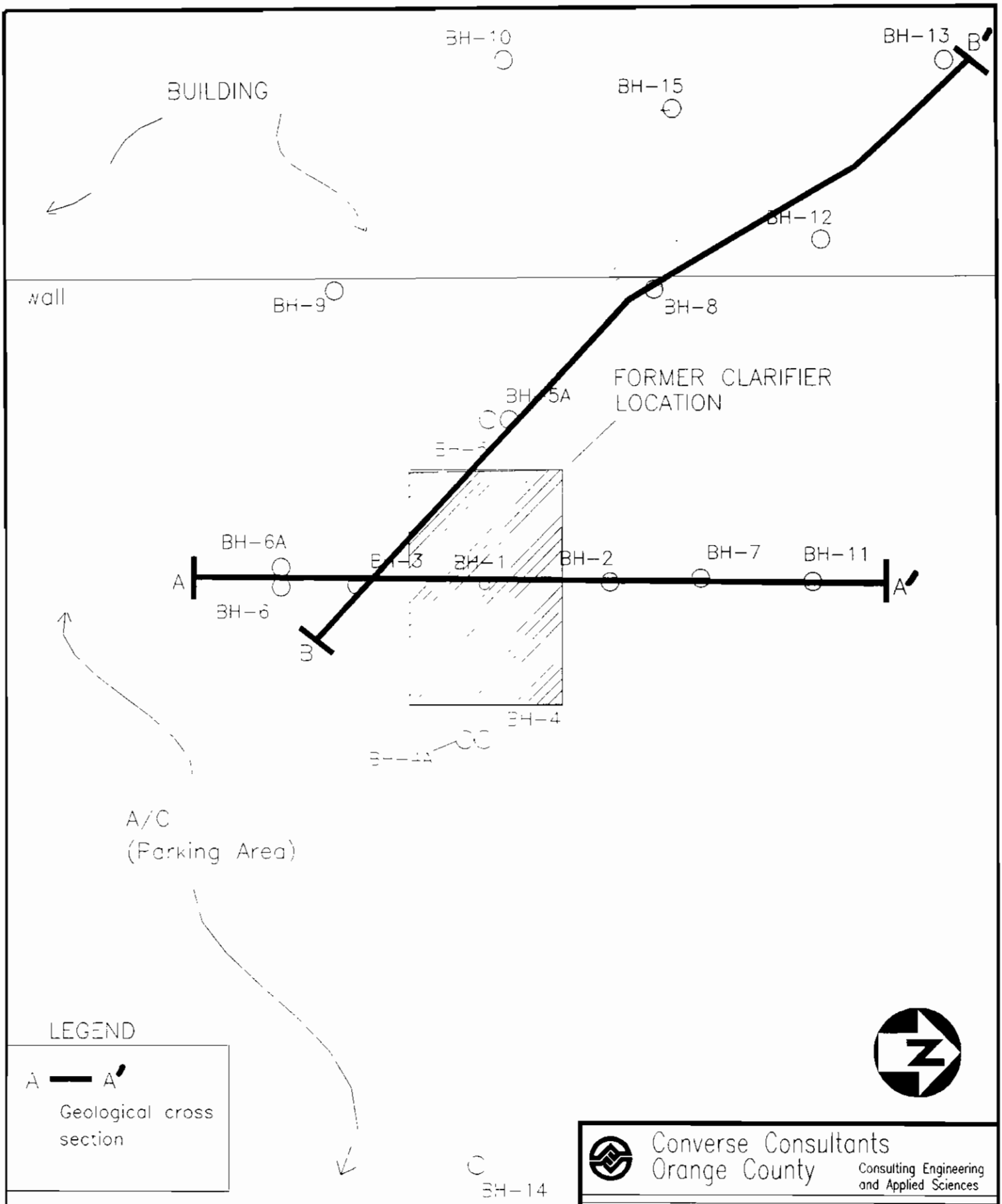
SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No.
94-42871-04

Converse Consultants Orange County

Geotechnical Engineering and Applied Sciences

Figure No.
2



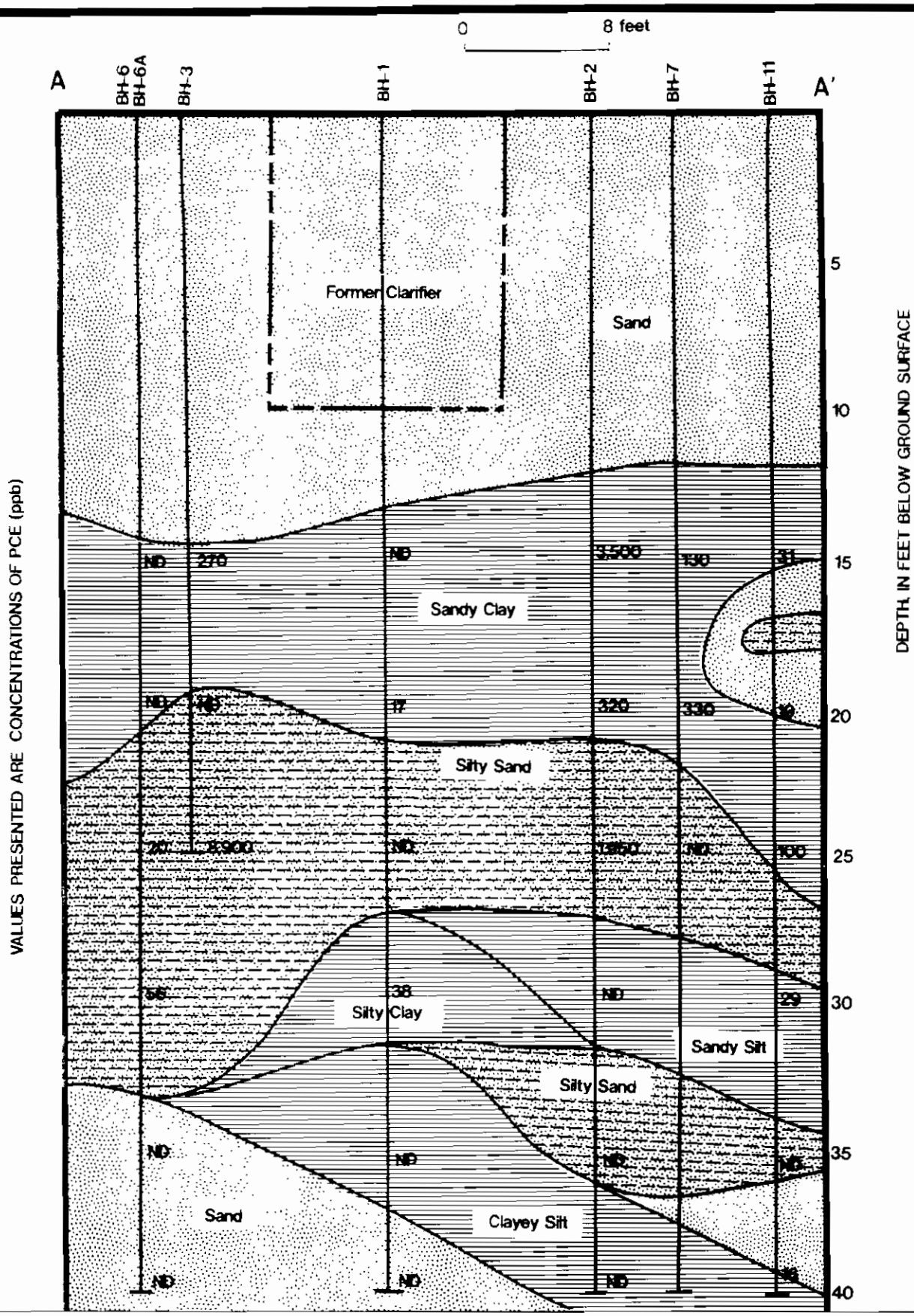
NOTE:
This figure is part of Converse Consultants Orange County report dated **MAY 18, 1995**.

Converse Consultants
Orange County
Consulting Engineering and Applied Sciences

SITE LAYOUT MAP

Fullerton Business Park North
1551 East Orangethorpe Avenue
Fullerton, California

DATE: 5/15/95	PROJECT NO: 94-422871-04	FIGURE NO: 3
SCALE: 1" = 8'	CHECKED BY:	



GEOLOGIC X-SECTION A-A'

SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
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94-42871-04

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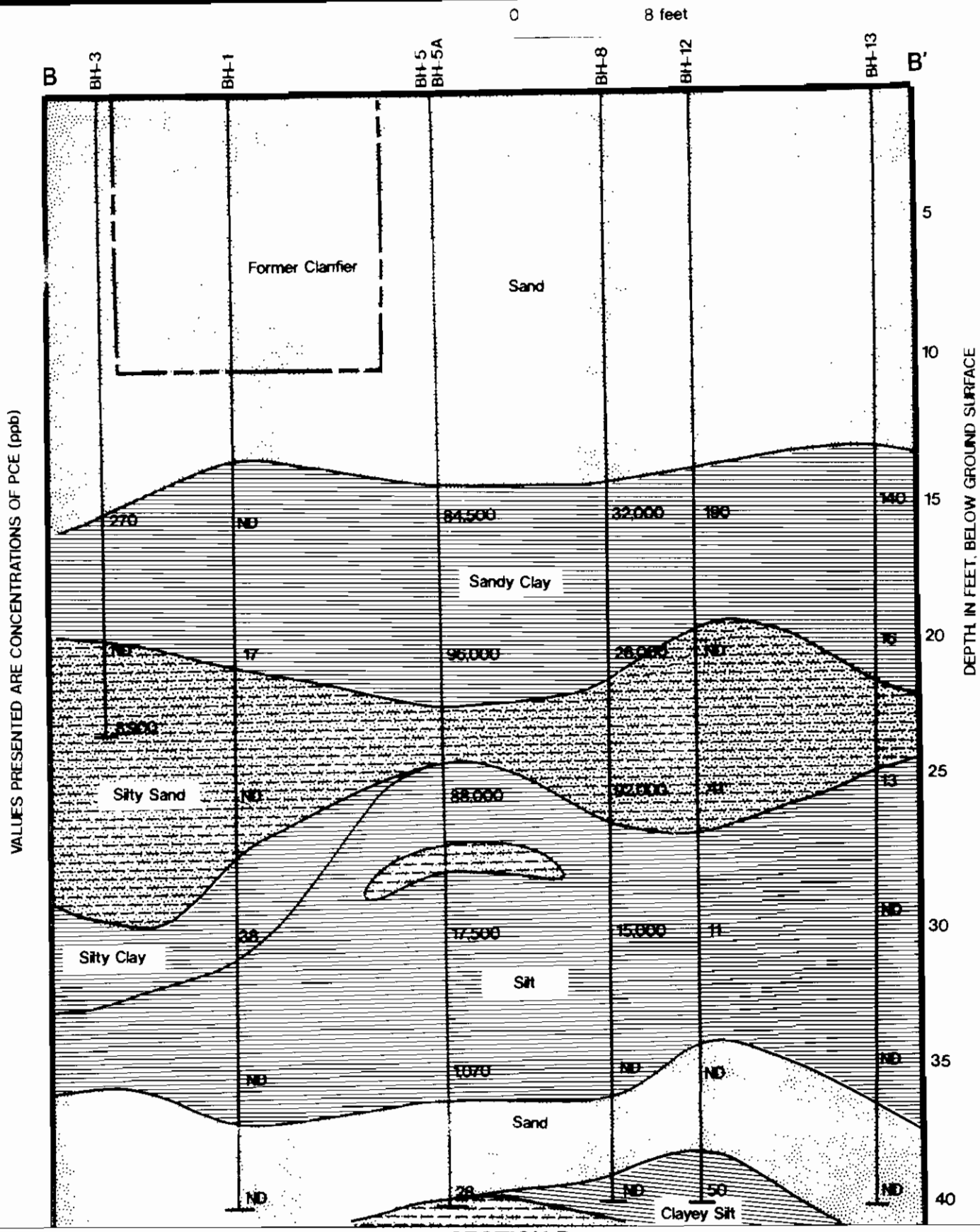
Drawing No
4



GEOLOGIC X-SECTION B-B'

SITE CHARACTERIZATION
1551 East Orangethorpe Avenue
Fullerton, California

Project No
94-42871-04

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Drawing No
5

APPENDIX A

Appendix A

FIELD METHODOLOGIES

Prior to drilling, Converse properly marked each boring location in the field in accordance with Underground Service Alert (USA) requirements. USA was notified a minimum of 48 hours prior to the field investigation. In addition, each boring location was cleared by the property owner for underground hazards prior to drilling. As an additional utility clearance, each boring was initially hand augered to about 5 feet bgs.

Following hand augering, each boring was drilled to the final total depth using a truck mounted, hollow-stem, continuous-flight auger drill rig equipped with 8-inch diameter auger. The concrete slab of the building at borehole BH-15 was concrete cored prior to drilling.

Soil samples were be collected from each borehole at 5-foot intervals beginning at 5-feet bgs and continuing until groundwater was encountered. Samples were collected using a 1.5-foot long, 2.5-inch inner diameter California modified split spoon sampler equipped with 2.5 inch outer diameter brass sleeves. One sleeve from each sampled interval was sealed on both ends with Teflon™ tape, capped, labelled with the sample identification, date and time, and placed in a sealable plastic bag. Each sample was entered on a chain-of-custody record, and immediately stored in an on-site ice chest pending delivery to the laboratory.

Converse also collected soil from each sampled interval and placed it inside a sealable plastic bag. Each bagged sample was allowed to volatilize for a minimum of 15 minutes, and the "head space" of each bag was field measured using a Century Organic Vapor Analyzer (OVA) for Volatile Organic Compounds (VOCs). These field measurements were entered on the field logs.

Each of the borings was detail logged from the soil samples collected at five foot-intervals, with general descriptions provided between five-foot sample intervals based on logging of the soil cuttings. Each boring was logged using the United Soil Classification System (USCS) by an experienced Converse geologist. Soil descriptions, included notations on physical evidence of contamination (when applicable) are presented on the boring logs.

Drilling equipment was steam cleaned prior to use and between borings. Sampling equipment was cleaned between sampling intervals using a non-phosphate solution, rinsed with tap water, and final rinsed with deionized water.

Following completion of the soil sampling, each boring was backfilled with hydrated bentonite chips and capped at the surface with either asphalt or concrete to match the surrounding pavement.

Soil cuttings were containerized in DOT approved, 55-gallon drums. The drums were properly labelled and stored onsite pending receipt of the chemical analyses results. Based on the chemical concentration levels in the soil (if present), Converse will assist Red Eagle Properties with the offsite transport and disposal/recycling of the soil at an appropriate, licensed disposal or recycling facility.

Soil samples were selected for chemical analyses based on field measurements for VOCs and notations on physical evidence of contamination. Proper Chain-of-Custody procedures were followed for all samples. Chemical analyses was performed by Del Mar Analytical, a State of California, Department of Health Services (DHS) certified laboratory.

Soil samples selected for chemical analyses were tested for the following:

- Total Recoverable Petroleum Hydrocarbons (TRPH) using EPA Test Method 418.1;
- Purgeable Halocarbons using EPA Test Method 8010;

All samples were chemically analyzed within the EPA designated 14 day holding time for purgeable halocarbons, and 28 day holding time for TRPH.

APPENDIX B

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-14

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	DRILL-LINE
PROJECT NO.	94-42871-04	DRILLER(S)	DRILL-LINE
SITE GEOLOGIST(S)	JMB/SSM	RIG/METHOD	HSA
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 120.00	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)

GRADE LEVEL(ft)	180 (EST)	LOCATION	T 3S R 10W SEC.35 1/4
TOP OF CASING(ft)	N/A	CITY	FULLERTON CO OR
		COORDINATES(ft)	

RECORD:	DATE/TIME	GROUNDWATER:	DEPTH(ft)	DATE/TIME
DRLG/CORING	3/2/95	ATD	114.00	114.0
WELL CONST	N/A	SWL*	N/A	N/A
WELL DEVELOP	N/A	SPL*	N/A	N/A
BACKFILL	3/2/95	(* PRIOR TO INITIAL DEVELOPMENT)		

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 3/2/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											ASPHALT SURFACE
1	0	5									sm	SP	SAND: MEDIUM TO COARSE GRAINED,SEMI-MOIST.
2	0	10									sm	SP	SAME AS ABOVE:
3	0	15									sm	ML	CLAYEY SILT/SILTY CLAY: INCREASING CLAY, SOME FINE GRAINED SAND.
4	1	20									sm	ML	SANDY SILT: FINE GRAINED SAND, SOME CLAY.
		25											

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04

LOG OF: BH-14

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25											
5	0										m	SP	SAND: FINE TO MEDIUM GRAINED.
		30											
6	0										m	CL	SILTY CLAY: SOME FINE GRAINED SAND, DARK BROWN.
		35											
7	0										m	SP	SAND: FINE TO MEDIUM GRAINED, LIGHT BROWN.
		40											
8	1										m	SM	SANDY SILT: SOME CLAY, BROWN.
		45											
9	5										m	SP	SAND: FINE TO MEDIUM GRAINED, TRACE SILT, LIGHT BROWN.
		50											
10	1										m	SP	SAME AS ABOVE:
		55									m	SP	SAND: FINE TO MEDIUM GRAINED.
11	5										m	CL	SILTY CLAY: DARK BROWN, SOME FINES.
		60											
12	2										m	CL	SILTY CLAY: VERY STIFF, DARK BROWN.
		65											

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04

LOG OF: **BH-14**

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE (Gvl / Scr / Smd / Sfn / Slt / Cl)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
13	0					m	ML	**SANDY SILT**: SOME CLAY, FINE GRAINED SAND.
		70						
14	0					m	CL	**SILTY CLAY**: DARK BROWN.
		75						
15	1					vm	CL	**SAME AS ABOVE**: STIFF, SOME FINE GRAINED SAND.
		80						
16	0					vm	ML	**SILTY SAND**: FINE GRAINED SAND.
		85						
17	2					vm	CL	**SILTY CLAY**: DARK BROWN.
		90						
18	0					vm	ML	**SANDY SILT**: LIGHT BROWN, FINE GRIANED SAND.
		95				m	CL	**SILTY CLAY**: SOME FINE GRAINED SAND.
19	3					vm	ML	**SILTY SAND**: FINE GRAINED SAND.
		100						
20	1					vm	ML	**SILTY SAND**: FINE GRAINED SAND, BROWN.
		105						

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04

LOG OF: **RH-14**

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
21	5										vm	CL	**SILTY CLAY**: SOME FINE GRAINED SAND, DARK BROWN.
		110											
22	2										wet	SP	**SAND**: MEDIUM TO COARSE GRAINED, SOME GRAVEL, SATURATED.
		115											
		120											DRILLER'S TOTAL DEPTH = 120.0 FEET BELOW GROUND SURFACE (BGS). FREE GROUND WATER ENCOUNTERED AT 114.0 BGS.
		125											
		130											
		135											
		140											
		145											

CONVERSE ENVIRONMENTAL WEST - O.C.

LOG OF: BH-15

PROJECT NAME	RED EAGLE/FULLERTON	CONTRACTOR	DRILL LINE
PROJECT NO.	94-42871-04	DRILLER(S)	DRILL-LINE
SITE GEOLOGIST(S)	JMB/SSM	RIG/METHOD	LAR-HSA
LOGGED BY	SSM	SCREEN INTERVAL	N/A
		DRLR TD(ft) 116.50	WELL CONST TD(ft) N/A

ELEVATIONS(REL. MSL)

GRADE LEVEL(ft) 180 (EST)

TOP OF CASING(ft) N/A

LOCATION T3S R 10W SEC.35 1/4

CITY FULLERTON CO OR

COORDINATES(ft)

RECORD:	DATE/TIME
DRLG/CORING	3/7/95
WELL CONST	N/A
WELL DEVELOP	N/A
BACKFILL	3/7/95

GROUNDWATER:	DEPTH(ft)	DATE/TIME
ATD	115.00	115.0
SWL*		N/A
SPL*	N/A	N/A

(* PRIOR TO INITIAL DEVELOPMENT)

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

PID/OVA CALIBRATION DATE: 3/2/95 CALIBRATION UNITS: 95 ppm
THE PID/OVA SIGNAL (READING) PRODUCED REPRESENTS A QUALITATIVE MEASURE OF IONIZABLE ORGANIC POLLUTANTS.
THIS SUMMARY APPLIES ONLY AT THE LOCATION OF THIS BORING AND AT THE TIME OF DRILLING. SUBSURFACE CONDITIONS MAY DIFFER AT OTHER LOCATIONS AND MAY CHANGE AT THIS LOCATION WITH THE PASSAGE OF TIME. THE DATA PRESENTED IS A SIMPLIFICATION OF ACTUAL CONDITIONS ENCOUNTERED.

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	Gvl	Scr	Smd	Sfn	Slt	Cl	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		0											CONCRETE FOUNDATION
1	0	5									sm	SP	SAND: FINE TO MEDIUM GRAINED, LIGHT BROWN.
2	0	10									sm	SP	SAME AS ABOVE:
3	15	15									m	CL	SANDY, SILTY CLAY: DARK BROWN, MOIST, MICACEOUS.
4	9	20									m	ML	SANDY SILT: DARK BROWN, MICACEOUS, MOIST.
		25											

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04

LOG OF: BH-15

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE (Gvl Scr Smd Sfn Slt Cl)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
		25						
5	200					m	SM	**SILTY SAND**: FINE GRAINED, MICACEOUS.
		30						
6	10					m	ML	**SANDY SILT**: FINE GRAINED SAND, DARK BROWN, SOME CLAY.
							CL	CLAY LAYER
		35						
7	0					m	SM	**SILTY SAND**: FINE GRAINED, BROWN, MICACEOUS.
		40						
8	0					m	ML	**SANDY SILT**: DARK BROWN, TRACE CLAY.
								INCREASING CLAY
		45						
9	7					sm	SW	**SAND**: FINE GRAINED, BROWN.
		50						
10	0					m	SW	**SAND**: MEDIUM GRAINED, LIGHT BROWN
		55						
11	10					m	SP	**SAND**: FINE TO MEDIUM GRAINED, LIGHT BROWN.
						w	SW	**SAND**: PERCHED LENS,MOIST,MEDIUM GRAINED.
		60						
12	3					m	ML	**SANDY SILT**: PERMEABILITY SAMPLE AT @ 62.5-63.0 FEET 1 X 10E-6 cm/sec.
						m	CL	**SILTY CLAY**: LOW PLASTICITY, DARK BROWN.
						m	ML	**SANDY SILT**: FINE GRAINED SAND.
						m	CL	**SILTY CLAY**: DARK BROWN, LOW PLASTICITY.
		65						

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04

LOG OF: BH-15

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE (Gvl Scr Smd Sfn Slt Cl)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
13	0					m	ML	**SANDY SILT**: SOME CLAY, FINE GRAINED SAND.
14	0	70				m	CL	**SILTY CLAY**: HIGH PLASTICITY, DARK BROWN.
15	0	75				m	ML	**SANDY SILT**: FINE GRAINED SAND, DARK BROWN.
16	0	80				m	SM	**SILTY SAND**: FINE GRAINED SAND, INCREASING SILT.
17	0	85				m	ML	**SANDY SILT**: DARK BROWN, FINE GRAINED SAND, SLIGHT PLASTICITY, SOME CLAY. INCREASING SILT
18	0	90				m	SM	**SILTY SAND**: LIGHT BROWN, FINE GRIANED, DARK BROWN.
19	0	95				m	SM	**SILTY SAND**: FINE TO MEDIUM GRAINED, BROWN.
20	0	100				m	SW	**SAND**: FINE GRAINED, BROWN.
		105						

DESCRIPTION

OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.

CONVERSE ENVIRONMENTAL WEST - O.C.
PROJECT NAME RED EAGLE/FULLERTON
PROJECT NO 94-42871-04

LOG OF: RH-15

LITHOLOGICAL PROFILE
Gvl -Gravel > 2.0 mm
Scr -Coarse Sand 2.00-0.50 mm
Smd -Medium Sand 0.50-0.25 mm
Sfn -Fine Sand 0.25-0.062 mm
Slt -Silt <0.062 mm
Cl -Clay/Mud

ENV SAMPLE	PID/OVA READING	DEPTH (ft)	LITHOLOGICAL PROFILE (Gvl Scr Smd Sfn Slt Cl)	GRAPHICS	WELL CONSTRUCTION	MOISTURE	SOIL CLASSIFICATION	DESCRIPTION
								OVERALL LITHOLOGY, TEXTURE, COLOR AND, FOR SAND AND GRAVEL SIZE RANGE AND MEDIAN, ANGULARITY/ROUNDNESS, SORTING, ACCESSORY MINERALS AND FOSSILS, % QUARTZ, % FELDSPAR, % LITHIC FRAGMENTS BEDFORMS AND OTHER SEDIMENTARY STRUCTURES.
21	5					m	ML	CLAYEY SILT: SLIGHT PLASTICITY, BROWN.
		110						
22	6					m	SM	SILTY SAND: FINE GRAINED.
								DECREASING SILT
		115				wet	SW	SAND: FINE GRAINED, SATURATED.
								DRILLER'S TOTAL DEPTH = 116.5 FEET BELOW GROUND SURFACE (BGS) FREE GROUND WATER ENCOUNTERED AT 115.0 BGS.
		120						
		125						
		130						
		135						
		140						
		145						

APPENDIX C

Del Mar Analytical

2852 Alton Ave., Irvine, CA 92714 (714) 261-1022 FAX (714) 261-1228
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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103
Sample Descript: Soil, BH-14/8
Lab Number: EC00597

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**8.8**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**23**
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**19**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	119%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced except in full, without written permission from Del Mar Analytical

Del Mar Analytical

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103
Sample Descript: Soil, BH-14/9
Lab Number: EC00598

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	100%

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2465 W. 12th St., Suite 1, Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

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ay, Suite 100
2307
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Client Project ID: #944287103

Sample Descript: Soil, BH-14/11
Lab Number: EC00599

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
nane	5.0	N.D.
	5.0	N.D.
	5.0	N.D.
:e	5.0	N.D.
	5.0	N.D.
	25	N.D.
ether	25	N.D.
	5.0	N.D.
	5.0	N.D.
:nane	5.0	N.D.
:ne	10	N.D.
:ne	10	N.D.
:ne	10	N.D.
e	5.0	N.D.
e	5.0	N.D.
:e	5.0	N.D.
nene	5.0	N.D.
:ethene	5.0	N.D.
:ne	5.0	N.D.
opene	5.0	N.D.
:oropene	5.0	N.D.
:e	10	N.D.
:ethane	5.0	N.D.
ne	**5.0**	**11**
ane	5.0	N.D.
ane	5.0	N.D.
	5.0	**20**
:nane	5.0	N.D.
	5.0	N.D.

N.D. were not present above the stated limit of detection.

YTICAL, IRVINE (ELAP #1197)

:tor

Surrogate Standard Recovery	
4-Bromofluorobenzene	95%

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2465 W 12th St, Suite 1 Tempe, AZ 85281 (602) 968-8272 FAX (602) 968-1338

Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103
Sample Descript: Soil, BH-14/13
Lab Number: EC00600

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**19**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**23**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	92%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103

Sample Descript: Soil, BH-14/15
Lab Number: EC00601

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**6.7**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**6.3**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	117%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103
Sample Descript: Soil. BH-14/17
Lab Number: EC00602

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**7.5**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**91**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	96%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103
Sample Descript: Soil, BH-14/19
Lab Number: EC00603

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	94%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103
Sample Descript: Soil, BH-14/21
Lab Number: EC00604

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 12, 1995
Reported: Mar 13, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**19**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**180**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	114%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: #944287103

Analysis Method: EPA 418.1 (I.R. with clean-up)
First Sample #: EC00597

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 6, 1995
Reported: Mar 13, 1995

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Number	Sample Description Soil	Petroleum Hydrocarbons mg/Kg (ppm)
EC00597	BH-14/8	N.D.
EC00598	BH-14/9	N.D.
EC00599	BH-14/11	N.D.
EC00600	BH-14/13	N.D.
EC00601	BH-14/15	N.D.
EC00602	BH-14/17	N.D.
EC00603	BH-14/19	N.D.
EC00604	BH-14/21	N.D.

Detection Limit: 5.0

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 11, 1995
Reported: Mar 13, 1995
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	118%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 6, 1995
Reported: Mar 13, 1995
Matrix: Soil

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Description	Petroleum Hydrocarbons mg/Kg (ppm)
Method Blank	N.D.

Detection Limit:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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1/3

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

39222

Client Name/Address: Converse Consultants, 15245 Alton Pkwy #100, Irvine, CA

Project: [redacted] 9-142 871-03

Project Manager: Mike Batten

Sampler: Steve Maffioli

Analysis Required: Soil - PCE only; 418.1

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	[redacted]	418.1							Special Instructions
MW-1/8	Soil	Brass	1	3/2/95	N/A	X	X							
MW-1/9	↓	↓	↓	↓	↓	↓	↓							
MW-1/11														
MW-1/13														
MW-1/15														
MW-1/17														
MW-1/19														
MW-1/21														

Relinquished By: Steve Maffioli — Date/Time: 3/2/95 4:18 pm

Received By — Date/Time

Relinquished By — Date/Time

Received By — Date/Time

Relinquished By — Date/Time

Received in Lab By: [illegible] — Date/Time: 3/2/95 1:12p

Note: Samples will be disposed of after 30 days

Turnaround Time (check)

same day		72 hours	
24 hours		5 days	
48 hours		normal	X

Sample Integrity (check)

intact	✓	on ice	✓

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Tempe, AZ 85281
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FAX (602) 968 1338

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38222

Client Name/Address: Converse Consultants (5245 Alton Pkwy #100)

Project: 94/42 871-04

Project Manager: Mike Batten

Sampler: Steve Maffioli

Analysis Required: HOLD

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	HOLD	Special Instructions
MW-1/1	Soil	Brass	1	3/2/95	N/A	X	
MW-1/2						X	
MW-1/3						X	
MW-1/4						X	
MW-1/5						X	
MW-1/6						X	
MW-1/7						X	
MW-1/10						X	
MW-1/14						X	
MW-1/16						X	
MW-1/18						X	

Relinquished By	Date/Time	Received By	Date/Time
Steve Maffioli	3/2/95 - 4:18pm		
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received in Lab By	Date/Time
		[illegible]	3/2/95 4:18p

Note: Samples will be disposed of after 30 days

Turnaround Time (check)

same day		72 hours	
24 hours		5 days	
48 hours		normal	

Sample Integrity (check)

intact ✓ on ice ✓

Del Mar Analytical

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3 3

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38223

Client Name/Address: Converse

Project:

Project Manager: MIKE BATTEN

Sampler:

Analysis Required: TPH-D

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	TPH-D								Special Instructions
MW-1/22	Soil	BRASS	1	3/2/95	—	X								
MW-1/12	↓	↓	↓	↓	—	X								
MW-1/20	↓	↓	↓	↓	—	X								

Relinquished By: [signature] Date/Time: 3/2/95 4:18 pm

Received By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Relinquished By: Date/Time:

Received in Lab By: [signature] Date/Time: 3/2/95 4 1210

Note: Samples will be disposed of after 30 days

Turnaround Time. (check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal ____

Sample Integrity (check)

intact ✓ on ice ✓

Del Mar Analytical

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 94-42871-04
Sample Descript: Soil, BH-14/14
Lab Number: EC02441

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 18, 1995
Reported: Mar 20, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**11**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**8.2**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	85%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 18, 1995
Reported: Mar 20, 1995
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	84%

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CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

39206

Client Name/Address: CONVERSE CONSULTANTS, 15245 ALTON PKWY #100, IRVINE, CA 92715

Project: 94-42871-04

Project Manager: Mike Batten

Sampler: Steve Maffidi

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	HOLD							Special Instructions
BH-14/1	Soil	Brass	1	3/2/95	N/A	X							
BH-14/2													
BH-14/3													
BH-14/4													
BH-14/5													
BH-14/6													
BH-14/7													
BH-14/10													
B-14/14													
BH-14/16													
BH-14/18													

Relinquished By: Steve Maffidi — Date/Time: 3/2/95 4:16pm

Received By: — Date/Time:

Relinquished By: — Date/Time:

Received By: — Date/Time:

Relinquished By: — Date/Time:

Received in Lab By: — Date/Time:

Note: Samples will be disposed of after 30 days

Turnaround Time (check)

same day ____ 72 hours ____

24 hours ____ 5 days ____

48 hours ____ normal ____

Sample Integrity (check)

intact ____ broke ____

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CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38222

Client Name/Address: Converse Consultants 15245 Alton Pkwy #100

Project: 94/42 871-04

Project Manager: Mike Batten

Sampler: Steve Maffioli

Analysis Required: HCD

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	HCD	Special Instructions
MW-1/1	Soil	Brass	1	3/2/95	N/A	X	
MW-1/2						X	
MW-1/3						X	
MW-1/4						X	
MW-1/5						X	
MW-1/6						X	
MW-1/7						X	
MW-1/10						X	
MW-1/14						X	
MW-1/16						X	
MW-1/18						X	

Relinquished By: Steve Maffioli — Date/Time: 3/2/95 - 4:18pm

Received By: — Date/Time:

Relinquished By: — Date/Time:

Received By: — Date/Time:

Relinquished By: — Date/Time:

Received in Lab By: [illegible] — Date/Time: 3/2/95 4:18p

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (check)
intact ✓ on ice ✓

Note: Samples will be disposed of after 30 days

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 94-42871-04
Sample Descript: Soil, BH-14/10
Lab Number: EC01874

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 15, 1995
Reported: Mar 16, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

MAR 1 3 1995
RECEIVED

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	109%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 94-42871-04

Sample Descript: Soil, BH-14/12
Lab Number: EC01875

Sampled: Mar 2, 1995
Received: Mar 2, 1995
Analyzed: Mar 15, 1995
Reported: Mar 16, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**50**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**110**
1,1,1-Trichloroethane	**5.0**	**6.8**
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**110**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	89%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 15, 1995
Reported: Mar 16, 1995
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	97%

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CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

39206

Client Name/Address:
CONVERSE CONSULTANTS
15245 ALTON PKWY #100
IRVINE, CA 92715

Project:
94-42871-04

Project Manager
Mike Batten

Sampler
Steve Maffidi

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	HOLD							Special Instructions
BH-14/1	Soil	Brass	1	3/2/95	N/A	X							
BH-14/2													
BH-14/3													
BH-14/4													
BH-14/5													
BH-14/6													
BH-14/7													
BH-14/10													
B-14/14													
BH-14/16													
BH-14/18													

Relinquished By: Steve Maffidi — Date/Time: 3/2/95 4:10pm

Relinquished By — Date/Time

Relinquished By — Date/Time

Received By — Date/Time

Received By — Date/Time

Received in Lab By — Date/Time

Turnaround Time (check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity (check)
intact ____ on ice

Note: Samples will be disposed of after 30 days

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39221

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

Client Name/Address: CONVERSE CONSULTANTS, 15245 ALTON PKWY #100, IRVINE, CA. 92715

Project: 94-42871-04

Project Manager: Mike Batten

Sampler: Steve Maffioli

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	8010 - PLE ONLY	418.1	HOLD						Special Instructions
BH-14/8	Soil	Brass	1	3/2/95	N/A	X	X							
BH-14/9						X	X							
BH-14/11						X	X							
BH-14/13						X	X							
BH-14/15						X	X							
BH-14/17						X	X							
BH-14/19						X	X							
BH-14/21						X	X							
BH-14/22								X						
BH-14/12								X						
BH-14/20								X						

Relinquished By	Date/Time	Received By	Date/Time
Steve Maffioli	3/2/95 4:18pm		
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received in Lab By	Date/Time

Turnaround Time (check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (check)
intact ____ on ice ____

Note: Samples will be disposed of after 30 days

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/8
Lab Number: EC00975

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**91**
Trichlorofluoromethane	50	N.D.
Vinyl chloride	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	107%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/9
Lab Number: EC00976

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	116%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/11
Lab Number: EC00977

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	86%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/13
Lab Number: EC00978

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**20**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	**5.0**	**7.7**
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**55**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	129%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/15
Lab Number: EC00979

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	85%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/17
Lab Number: EC00980

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**29**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**110**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	94%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/19
Lab Number: EC00981

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	**50**	**56**
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**420**
Trichlorofluoromethane	50	N.D.
Vinyl chloride	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	111%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04
Sample Descnpt: Soil, BH-15/21
Lab Number: EC00982

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 15, 1995
Reported: Mar 17 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	50	N.D.
Bromoform	50	N.D.
Bromomethane	50	N.D.
Carbon tetrachloride	50	N.D.
Chlorobenzene	50	N.D.
Chloroethane	250	N.D.
2-Chloroethylvinyl ether	250	N.D.
Chloroform	50	N.D.
Chloromethane	50	N.D.
Dibromochloromethane	50	N.D.
1,2-Dichlorobenzene	100	N.D.
1,3-Dichlorobenzene	100	N.D.
1,4-Dichlorobenzene	100	N.D.
1,1-Dichloroethane	50	N.D.
1,2-Dichloroethane	50	N.D.
1,1-Dichloroethene	50	N.D.
cis-1,2-Dichloroethene	50	N.D.
trans-1,2-Dichloroethene	50	N.D.
1,2-Dichloropropane	50	N.D.
cis-1,3-Dichloropropene	50	N.D.
trans-1,3-Dichloropropene	50	N.D.
Methylene chloride	100	N.D.
1,1,2,2-Tetrachloroethane	50	N.D.
Tetrachloroethene	50	N.D.
1,1,1-Trichloroethane	50	N.D.
1,1,2-Trichloroethane	50	N.D.
Trichloroethene	**50**	**160**
Trichlorofluoromethane	50	N.D.
Vinyl chloride	50	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 10.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	104%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Client Project ID: 9442871-04

Analysis Method: EPA 418.1 (I.R. with clean-up)
First Sample # EC00975

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 10, 1995
Reported: Mar 17, 1995

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Number	Sample Description Soil	Petroleum Hydrocarbons mg/Kg (ppm)
EC00975	BH-15/8	N.D.
EC00976	BH-15/9	N.D.
EC00977	BH-15/11	N.D.
EC00978	BH-15/13	N.D.
EC00979	BH-15/15	N.D.
EC00980	BH-15/17	N.D.
EC00981	BH-15/19	N.D.
EC00982	BH-15/21	N.D.

Detection Limit:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 15, 1995
Reported: Mar 17, 1995
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

Surrogate Standard Recovery:	
4-Bromofluorobenzene	97%

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Mike Batten

Method Blank

Analyzed: Mar 10, 1995
Reported: Mar 17, 1995
Matrix: Soil

TOTAL RECOVERABLE PETROLEUM HYDROCARBONS (EPA 418.1)

Laboratory Description	Petroleum Hydrocarbons mg/Kg (ppm)
Method Blank	N.D.

Detection Limit:	**5.0**

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Gary Steube
Laboratory Director

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CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38249

Client Name/Address: CONVERSE CONSULTANTS, 15245 ALTON PKWY #100, IRVINE, CA.

Project: 94-2871-04

Project Manager: MIKE BATTEN

Sampler: Steve Maffioli

Analysis Required

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	PCE ONLY 8010	418.1							Special Instructions
BH-15/8	Soil	Brass	1	3/7/95	N/A	X								
BH-15/9														
" 11														
" 13														
" 15														
" 17														
" 19														
" 21														

Relinquished By	Date/Time	Received By	Date/Time
Steve Maffioli	3:30pm 3/7/95		
Relinquished By	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received in Lab By	Date/Time
		[illegible]	3/7/95 3:30p

Note: Samples will be disposed of after 30 days

Turnaround Time (check)

same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal X

Sample Integrity (check)

intact ✓ on ice ✓

Del Mar Analytical

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(818) 779-1844
FAX (818) 779-1843

2465 W 12th St, Suite 1
Tempe, AZ 85281
(602) 968-8272
FAX (602) 968-1358

CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38250

Client Name/Address: Converse Consultants

Project: 9442871-04

Project Manager: Mike Batten

Sampler: Steve Maffioli

Analysis Required: TPH-D

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	Special Instructions
B4-15/1	SOIL	Brass	1	3/7/95		
" 2						
" 3						
" 4						
" 5						
" 6						
" 7						
" 10						
-15 " 12, 14, 16, 18, 20, 22						

Relinquished By:	Date/Time	Received By	Date/Time
Steve Maffioli	3/7/95 3:30pm		
Relinquished By:	Date/Time	Received By	Date/Time
Relinquished By	Date/Time	Received in Lab By: [illegible]	Date/Time 3/7/95 3:30p

Note: Samples will be disposed of after 30 days

Turnaround Time: (check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity: (check)
intact ✓ on ice ✓

Del Mar Analytical

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Henry Ames

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/12
Lab Number: EC02916

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 21, 1995
Reported: Mar 22, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	20	N.D.
Bromoform	20	N.D.
Bromomethane	20	N.D.
Carbon tetrachloride	20	N.D.
Chlorobenzene	20	N.D.
Chloroethane	100	N.D.
2-Chloroethylvinyl ether	100	N.D.
Chloroform	20	N.D.
Chloromethane	20	N.D.
Dibromochloromethane	20	N.D.
1,2-Dichlorobenzene	40	N.D.
1,3-Dichlorobenzene	40	N.D.
1,4-Dichlorobenzene	40	N.D.
1,1-Dichloroethane	20	N.D.
1,2-Dichloroethane	20	N.D.
1,1-Dichloroethene	**20**	**160**
cis-1,2-Dichloroethene	20	N.D.
trans-1,2-Dichloroethene	20	N.D.
1,2-Dichloropropane	20	N.D.
cis-1,3-Dichloropropene	20	N.D.
trans-1,3-Dichloropropene	20	N.D.
Methylene chloride	40	N.D.
1,1,2,2-Tetrachloroethane	20	N.D.
Tetrachloroethene	**20**	**180**
1,1,1-Trichloroethane	20	N.D.
1,1,2-Trichloroethane	20	N.D.
Trichloroethene	**20**	**230**
Trichlorofluoromethane	20	N.D.
Vinyl chloride	20	N.D.

Analytes reported as N.D. were not present above the stated limit of detection. Due to matrix effects and/or other factors, the sample required dilution. Detection limits for this sample have been raised by a factor of 4

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Dan Harbs
Project Manager

Surrogate Standard Recovery:	
1-Chloro-2-Bromopropane	86%

Results pertain only to samples tested in the laboratory. This report shall not be reproduced except in full without written permission from Del Mar Analytical

Del Mar Analytical

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Henry Ames

Client Project ID: 9442871-04
Sample Descript: Soil, BH-15/14
Lab Number: EC02917

Sampled: Mar 7, 1995
Received: Mar 7, 1995
Analyzed: Mar 21, 1995
Reported: Mar 22, 1995

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	**5.0**	**13**
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	**5.0**	**20**
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Dan Harbs
Project Manager

Surrogate Standard Recovery:	
1-Chloro-2-Bromopropane	86%

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CHAIN OF CUSTODY/REQUEST FOR ANALYSIS

38250

Client Name/Address: Converse Consultants

Project: 94-12471-04

Project Manager: Mike Batten

Sampler: Steve Maffioli

Analysis Required: TPH-D

Sample Description	Sample Matrix	Container Type	# of Cont	Sampling Date/Time	Preservatives	Special Instructions
B4-15/1	SOIL	Brass	1	3/7/95		
" 2						
" 3						
" 4						
" 5						
" 6						
" 7						
" 10						
4-15 " 12, 14, 16, 18, 20, 22						

Relinquished By: Steve Maffioli Date/Time: 3/7/95 3:30pm

Received By: Date/Time:

Relinquished By: Date/Time:

Received By: Date/Time:

Relinquished By: Date/Time

Received in Lab By: D. Williams Date/Time 3/7/95 3:30p

Note: Samples will be disposed of after 30 days

Turnaround Time (check)
same day ____ 72 hours ____
24 hours ____ 5 days ____
48 hours ____ normal ____

Sample Integrity (check)
intact ✓ on ice ✓

Del Mar Analytical

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Converse Consultants
15245 Alton Parkway, Suite 100
Irvine, CA 92718-2307
Attention: Henry Ames

Method Blank

Analyzed: Mar 21, 1995
Reported: Mar 22, 1995
Matrix: Soil

HALOGENATED VOLATILE ORGANICS (EPA 8010)

Analyte	Detection Limit µg/Kg (ppb)	Sample Result µg/Kg (ppb)
Bromodichloromethane	5.0	N.D.
Bromoform	5.0	N.D.
Bromomethane	5.0	N.D.
Carbon tetrachloride	5.0	N.D.
Chlorobenzene	5.0	N.D.
Chloroethane	25	N.D.
2-Chloroethylvinyl ether	25	N.D.
Chloroform	5.0	N.D.
Chloromethane	5.0	N.D.
Dibromochloromethane	5.0	N.D.
1,2-Dichlorobenzene	10	N.D.
1,3-Dichlorobenzene	10	N.D.
1,4-Dichlorobenzene	10	N.D.
1,1-Dichloroethane	5.0	N.D.
1,2-Dichloroethane	5.0	N.D.
1,1-Dichloroethene	5.0	N.D.
cis-1,2-Dichloroethene	5.0	N.D.
trans-1,2-Dichloroethene	5.0	N.D.
1,2-Dichloropropane	5.0	N.D.
cis-1,3-Dichloropropene	5.0	N.D.
trans-1,3-Dichloropropene	5.0	N.D.
Methylene chloride	10	N.D.
1,1,2,2-Tetrachloroethane	5.0	N.D.
Tetrachloroethene	5.0	N.D.
1,1,1-Trichloroethane	5.0	N.D.
1,1,2-Trichloroethane	5.0	N.D.
Trichloroethene	5.0	N.D.
Trichlorofluoromethane	5.0	N.D.
Vinyl chloride	5.0	N.D.

Analytes reported as N.D. were not present above the stated limit of detection.

DEL MAR ANALYTICAL, IRVINE (ELAP #1197)

Dan Harbs
Project Manager

Surrogate Standard Recovery:	
1-Chloro-2-Bromopropane	87%

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