REPORT PREPARED

FOR

AIRCO DISTRIBUTOR GASES 575 MOUNTAIN AVENUE MURRAY HILL, NEW JERSEY 07974

 \mathbf{BY}

BSK & ASSOCIATES, INC. PLEASANTON, CALIFORNIA

BSK JOB NO. P94014.4 FORMERLY RS JOB NO. R93003

REPORT
EVALUATION OF CONTAMINATION EXTENT
FORMER
CONDENSATE COLLECTOR LOCATION
AIRCO DISTRIBUTOR GASES
SAN LEANDRO, CALIFORNIA
FEBRUARY 1994





1181 Quarry Lane Building 300 Pleasanton, CA 94566 (510) 462-4000 (510) 462-6283 FAX

February 2, 1994

BSK JOB NO. P94014.4 RS JOB NO. R93003

Airco Distributor Gases 575 Mountain Avenue Murray Hill, New Jersey 07974

Attention:

Mr. Michael Resh

Subject:

Evaluation of Contamination Extent

Former Condensate Collector Location

Airco Distributor Gases 1588 Doolittle Drive San Leandro, California

Gentlemen:

BSK & Associates, Inc. (BSK) is pleased to submit this Report which summarizes methodologies used to evaluate the extent of potential contamination in upper soils and in first groundwater at the subject site, and presents results of chemical analysis.

Our investigation has detected low levels of acetone ranging from 12 to 3,100 μ g/kg in soil and at 10 μ g/l in first groundwater, and MEK at 74 μ g/kg in one soil sample. However, based on the preliminary endangerment assessment presented in this Report, the low levels of acetone and MEK in the soil and low level of acetone in groundwater at the Airco San Leandro Facility are not considered a significant risk to biological receptors.

We recommend that a copy of this Report be submitted under an Airco cover letter to Mr. Robert Weston of the Alameda County Department of Environmental Health for review and comment.

Airco Distributor Gases February 2, 1994 Page 2

We trust the information presented in this Report satisfies your present needs. If you have questions or require additional services, please call us.

Respectfully submitted BSK & Associates

John W. Schweizer, P.5

Project Manager

Francis R. Greguras, P.E.

Project Engineer

JWS\FRG:hhc
(RPTS\ENVJOI)

Distribution:

Airco Distributor Gases (3 copies)
Attn: Mr. Michael Resh

BSK

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REPORT EVALUATION OF CONTAMINATION EXTENT FORMER CONDENSATE COLLECTOR LOCATION AIRCO DISTRIBUTOR GASES SAN LEANDRO, CALIFORNIA

1.0 INTRODUCTION

BSK & Associates, Inc. (BSK) has prepared this Report which summarizes methodologies used to evaluate the extent of potential contamination in upper soils and in first groundwater, and presents results of chemical analyses. This evaluation was performed in the area of the former condensate collector at the Airco facility located at 1588 Doolittle Drive in San Leandro, California. The general location of the site is shown on Figure 1, Vicinity Map.

Services for this evaluation were completed in general accordance with the BSK Proposal No. PR94004.3, dated January 10, 1994, which was authorized and accepted by Airco. An exception to the proposal was that Airco hired Enseco, a California-certified analytical laboratory, to perform the required chemical analyses.

2.0 BACKGROUND

Remediation Services, Inc. (RS), a subsidiary of BSK, performed removal and initial soil remediation services at the site of the condensate collector in February 1993. The condensate collector was utilized to capture compressor condensation in the manufacturing of acetylene. During removal, soil adjacent to the collector appeared to be oil stained. Subsequent remediation of oil-contaminated soil by excavation and chemical analyses performed in June 1993 resulted in the discovery of volatile organic compounds. Compounds identified were acetone, methyl ethyl ketone (MEK), tetrachloroethene (PCE), and benzene. The shaded area on Figure 2, Site Plan, shows where removal and soil remediation services were performed. The collector removal, remediation method, and subsequent discovery of volatile organic contamination are detailed in the RS Report R93003, dated June 24, 1993.

3.0 PURPOSE AND SCOPE

The purpose of this evaluation was to access potential volatile organic contamination in the soil adjacent and immediately below the excavation zone remediated in June 1993, and to access potential impact to first groundwater in the vicinity of the former condensate collector. To accomplish this purpose, BSK drilled four test borings, collected soil samples, collected one groundwater sample, collected and stored drill spoils, collected and stored rinsate water, refrigerated soil and water samples, shipped samples to Enseco for chemical testing, and prepared this Report.



BSK performed the drilling services under: Zone 7 Water Agency Permit Number 94027 (copy in Appendix A), our Water Well Contractor License C-57 #490942, and Underground Service Alert (USA) Ticket Number 16694. The overall performance of BSK's scope of services was under the direction of a California Registered Civil Engineer.

4.0 INVESTIGATION METHODOLOGY

4.1 DRILLING AND SOIL SAMPLING

The locations of the four test borings are presented on Figure 2, Site Plan. At three of the boring locations, CalWest, Inc. core drilled 10-inch cores through the concrete slab. Drilling was accomplished with a Mobile Drill B-53, truck-mounted rig with 8-inch O.D. continuous flight, hollow stem auger. Soil samples were collected from the native subsoils at 5-foot intervals or less to a maximum depth of 14.5 feet in Boring B-3. A 2.0-inch I.D. split-barrel sampler, containing three 2- by 6-inch stainless steel liners, was used to collect the soil samples. The sampler was driven 18 inches beyond the hollow stem auger bit with a 140-pound hammer free falling 30 inches. Upon sampler retrieval, one of the soil-filled liners was removed from the sampler barrel, covered with teflon film, sealed with a pressure-fitted plastic cap, labeled and refrigerated by "blue ice" for delivery to Enseco. Based on odor and visual observation in field, selected samples were field screened for volatile organic compounds by placing a portion of soil sample in a plastic bag, allowing the specimen to volatilize, and then analyzing with a photo-ionization detector (PID), Thermo Environmental Model 580A with a 10.0 ev lamp.

A BSK geologist logged each recovered sample and the auger cuttings. Classification of the subsurface materials was based on the Unified Soil Classification System (USCS). A copy of the USCS Chart and Legend for the Boring Logs is presented on Plate 1 in Appendix A.

Spoils from the drilling and sampling operation were collected and placed on a 6-mil polyethylene sheet and, in turn, covered with a 6-mil polyethylene sheet anchored at the edges with weights. The spoil stockpile is located north of Acetylene Manufacturing Building between the property fence line and the asphalt pavement. Prior to covering the stockpile, two composite soil samples were collected in 2- by 6-inch stainless steel tubes from the drill spoils.

On January 20, the test borings were backfilled with a cement grout to either existing surface grade or to the base of the concrete slab where concrete slabs were present. After the grout set, the slab was patched with Portland cement concrete.

4.2 GROUNDWATER SAMPLING

An attempt to collect a groundwater sample at Boring B-2 from a 2-inch O.D. stainless steel (0.02-inch slot) well drive point, hydraulically pushed from 11.5 to 14.3 feet was unsuccessful.



No water was measured in the well drive point, one hour and 25 minutes after placement. A sample of first groundwater was collected from Boring B-3 because field screening of soil samples (PID readings) were the highest from this boring and this boring produced a sufficient quantity of water. The other two perimeter borings (B-1 and B-4) also produced groundwater. The water sample collected from Boring B-3 was obtained by lowering a disposable bailer into an open bore hole. The sample was decanted into appropriate containers with preservative as supplied by Enseco, labeled, sealed, and refrigerated with "blue ice" for shipment to the laboratory.

4.3 DECONTAMINATION PROCEDURES

Drilling and sampling equipment were thoroughly cleaned prior to site entry by a high-pressure, high-temperature washer. The hollow stem auger bit and plug, and split-barrel samplers were decontaminated with a hot water Liquinox solution, rinsed with potable water and rinsed with deionized water. Upon completion of the borings, the augers and sampling equipment were thoroughly cleaned by a high-pressure, high-temperature washer. The augers and equipment were washed in a polyethylene-lined containment basin. The rinsate from decontamination operations was placed into a lined 55-gallon DOT 17 E/H drum and labeled. The drum was placed adjacent to the covered drill spoils. A sample was collected from the rinsate water and placed into appropriate containers, labeled, sealed and placed in the shipping cooler.

4.4 QA/QC PROCEDURES

Chain-of-Custody documentation was prepared and shipped with the samples to Enseco. Security seals were placed on each individual sample and a signed security seal was placed on the outside of the cooler. The cooler and samples were shipped to Enseco via Federal Express under Airbill 0580868774 (a copy of the Airbill is presented in Appendix B).

A trip blank, sample prepared by Enseco and labeled B-6 #1 by BSK, accompanied the soil and water samples. An equipment rinsate (field blank) sample was prepared by collecting deionized water which passed through BSK's split-barrel samplers, a liner, and the water sampling equipment prior to field operations.

5.0 CHEMICAL ANALYSES

Nine soil samples collected from the four test borings were submitted to Enseco for volatile organics analysis by EPA Method 8240. Three aqueous samples (trip blank/field blank/groundwater) were submitted for volatile organics analysis by EPA Method 8240/624. In addition, the groundwater sample was analyzed for oil and grease by State Method 5520 CF. The composite soil samples from the drill spoils and aqueous rinsate samples from equipment decontamination operations were not tested at the request of Airco.



6.0 FINDINGS

6.1 SURFACE AND SUBSURFACE CONDITIONS

At Boring B-1, the surface was covered with asphalt varying in thickness form one to three inches. The asphalt pavement is underlain by approximately two feet of aggregate baserock. Below two feet and to the depth investigated (13 feet), dark grey grading to olive mottled brown, silty clay textured soil was encountered. The soil penetrated is moderately plastic (CL/CH) and is generally in a very moist condition. PID readings on samples recovered from five-and ten-foot depths ranged from 0 to 0.5 ppm. Groundwater was measured at 11.8 feet below surface grade after drilling.

At Boring B-2, the surface was covered with an eight-inch thick Portland cement concrete slab. Below the slab and to a depth of eight feet, aggregate baserock backfill from the June 1993 remediation excavation was encountered. Below the backfill material and to a depth of 11.5 feet, olive to olive grey, silty clay soil (CL/CH) was encountered. A PID reading of 0.3 ppm was recorded from the sample collected between 8 and 9.5 feet. No groundwater was measured inside the well drive point which was set between 11.5 and 14.3 feet.

At Boring B-3, the surface was covered with two Portland cement concrete slabs, combined measuring 19 inches. Below the slab and to a depth of 14.5 feet, dark grey grading to olive, silty clay soil (CL/CH) was encountered. PID readings ranged from 0.1 ppm (sample Number 3 at 11 feet) to 13 ppm (sample Number 1 at five feet). Groundwater was measured at 12.4 feet below surface grade after drilling.

At Boring B-4, the surface was covered with an eight-inch thick Portland cement concrete slab. Below the slab, approximately two feet of black colored aggregate baserock with a septic odor was encountered. Below the baserock, black grading to olive grey mottled, silty clay soil (CL/CH) was encountered to 11.5 feet. Groundwater was measured at 11.5 feet below surface grade after drilling.

Information, such as, sample depths, time of samples collection, sampler blow count resistance, and detailed soil descriptions are presented in the individual Boring Logs, Plates 2 through 5 in Appendix A.



6.2 ANALYTICAL RESULTS

The results of the analytical testing performed are reported in the Enseco Report, dated January 26, 1994 which is presented under Appendix B. Enseco's report contains the following information:

- Case Narrative
- Enseco Cal Lab's Quality Assurance Program
- Sample Description Information
- Chain-of-Custody Documentation
- Volatile Organics (Soil & Aqueous) Method 8240, Sample Data Sheets, Method Blank Reports, and Laboratory Control Sample Reports.
- Oil and Grease (Aqueous) Method SM 5520CF, Sample Data Sheets, Method Blank Report, and Laboratory Control Sample Report.

The results of the analysis performed on the nine soil samples are summarized in Table 1.

TABLE 1

ANALYTICAL RESULTS SOIL SAMPLES
Results in micrograms per Kilograms (pg/kg)

Sample I.D.	Acetone	MEK	Methylene Chloride	Other 8240 Compounds
B-1 at 5 feet	ND	ND	ND	ND
B-1 at 10 feet	ND	ND	ND	ND
B-2 at 8 feet	14	ND	ND	ND
B-2 at 10.5 feet	17	ND	ND	ND
B-3 at 5 feet	3.100	74	ND	ND
B-3 at 9 feet	18	ND	5.4	ND
B-3 at 13.5 feet	ND	ND	ND	ND
B-4 at 2.5 feet	31	ND	ND	ND
B-4 at 10 feet	12	ND	ND	ND
Detection Limit	10	10	5.0	See Appendix B

ND = None Detected



The results of the analyses performed on the three aqueous samples are summarized in Table 2.

TABLE 2

ANALYTICAL RESULTS AQUEOUS SAMPLES Results in Micrograms per Liter (ng#) Except as noted for Oil and Grease

Sample I.D,	Acetone	Methylene Chloride	Bromo- Methane	Other 8240 Compound	Oil & Grease (mg/l)
B-3 Groundwater	10	5.8	ND	ND	ND
B-5 #1 DI Water Field Blank	ND	6.1	ND	ND	NA
B-6 #1 Enseco Prepared Trip Blank	ND	5.9	18	ND	ND
Detection Limit	10	5.0	10	See Appendix B	1

ND = None Detected NA = Not Analyzed

7.0 PRELIMINARY ENDANGERMENT ASSESSMENT

BSK used the guidelines for application of a three-step screening test as described in the California Department of Health Services "Interim Guidance for Preparation of a Preliminary Endangerment Assessment Report," dated June 22, 1990. From Table A.1 (above referred publication), the drinking water supply screening value for acetone is 50,000 µg/l and for MEK is 200 µg/l. From Table A.3 (above referred publication), soil ingestion (5-year old child) for acetone is 10,000 mg/kg and for MEK is 100 mg/kg. Screening for excessive exposure via contact with contaminated soil and water media was significantly less than unity for the three-step test described in Appendix C.

8.0 CONCLUSIONS

It is our opinion that the bromomethane and methylene chloride detected in the Enseco prepared trip blank, are related to laboratory operations. The methylene chloride detected in the field blank, groundwater sample and soil sample from Boring B-3 are therefore also concluded to be resultant from laboratory operations.

Based on the screening values for soil ingestion and drinking water, and the instructions presented in the California Department of Health Services "Interim Guidance for Preparation of a Preliminary Endangerment Assessment Report," the low levels of acetone and MEK in the soil and low level of acetone in first groundwater at the Airco San Leandro Facility are not considered significant risk to biological receptors. Instructions for the Application of Screening Values (above referenced document) and a table of data and calculations is presented in Appendix C.

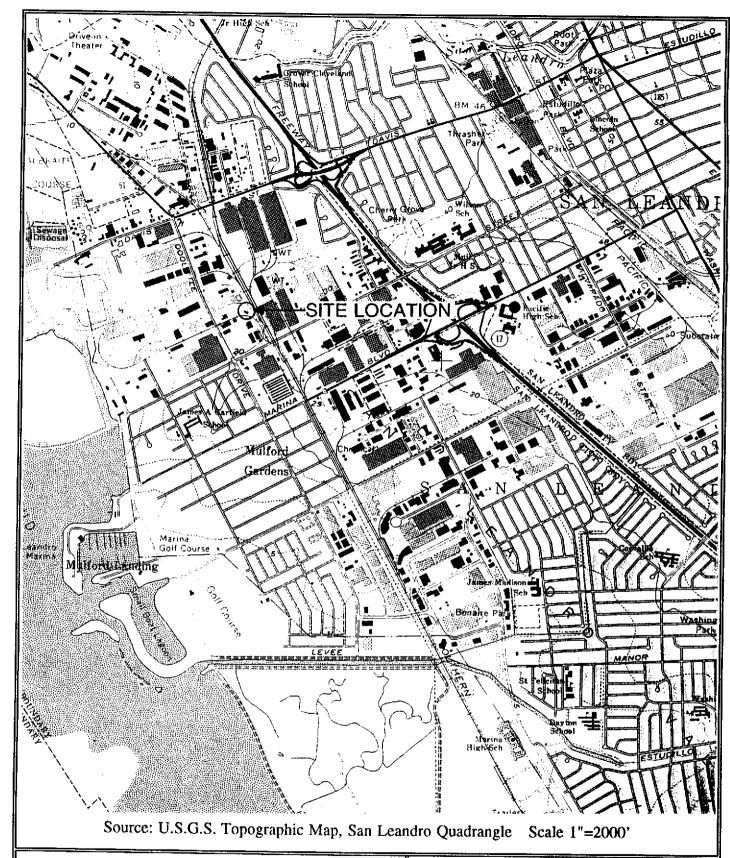


9.0 LIMITATIONS

The findings presented in this Report are based on field data, observations and the analytical testing program conducted. This Report has been prepared in accordance with generally accepted methodologies and standards of practice in the area. No other warranty, expressed or implied, is made as to the findings and conclusions included in this Report.

The findings and conclusions of this Report are valid as of the present. The passage of time, natural processes or human intervention on the property or an adjacent property may cause changed conditions which can invalidate the findings and conclusions presented in this Report.

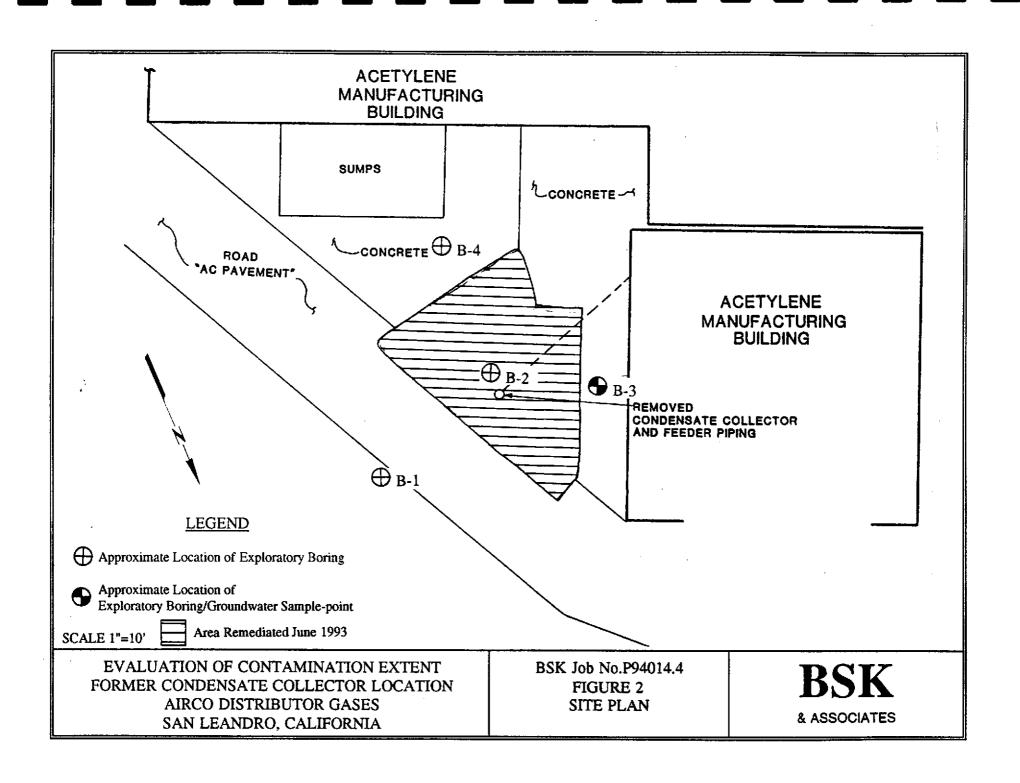




EVALUATION OF CONTAMINATION EXTENT FORMER CONDENSATE COLLECTOR LOCATION AIRCO DISTRIBUTOR GASES SAN LEANDRO, CALIFORNIA

BSK Job No.P94014.4 FIGURE 1 VICINITY MAP

BSK & ASSOCIATES





b' 05

ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE

PLEASANTON, CALIFORNIA 94588

VOICE (510) 484-2600 FAX (510) 462-3914

91992

STAL NOT PERPARAMENT

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
	FOR OFFICE USE
LOCATION OF PROJECT 1588 Doolittle Drive	PERMIT NUMBER 94027
Son Leandro, CA 44577	LOCATION NUMBER
CLIENT Name Airco Cylinder Operations	
Address (588 Dog/the Dr. Voice (5/0) 297 - 500	PERMIT CONDITIONS
City San Leandro Zip 94577	Circled Permit Requirements Apply
APPLICANT Name BSK & Associates Inc.	A. GENERAL
Address //8/ Quarry Lane Voice 50) 462 - 6283 City Flasgation Zip 94566	A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date. 2. Submit to Zone 7 within 60 days after completion of permitted
TYPE OF PROJECT Well Construction Geotechnical Investigation Cathodic Protection General X Water Supply Contamination Monitoring Well Destruction	work the original Department of Water Resources Water Well Drillers Report or equivalent for well Projects, or drilling logs and location sketch for geotechnical projects. Permit is vold if project not begun within 90 days of approval date.
PROPOSED WATER SUPPLY WELL USE AND A Domestic Industrial Other Municipal Irrigation	B. WATER WELLS, INCLUDING PIEZOMETERS 1. Minimum surface seal thickness is two inches of cement grout placed by tramie. 2. Minimum seal depth is 50 feet for municipal and industrial walls or 20 feet for domestic and imigation walls unless a lesser depth is specially approved. Minimum seal depth for
DRILLING METHOD: Mud Rotary Air Rotary Auger X Cable Other DRILLER'S LICENSE NO. C 57 - 440042	monitoring wells is the maximum depth practicable or 20 feet. C. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout
WELL PROJECTS Drill Hole Diameter in. Maximum Casing Diameter in. Depth ft. Surface Seal Depth ft. Number	shall be used in place of compacted cuttings. D. CATHODIC, Fill hole above anode zone with concrete placed by tremie. E. WELL DESTRUCTION. See attached.
GEOTECHNICAL PROJECTS Number of Borings 4 Maximum Hote Diameter 8 In. Depth 15 ft.	
ESTIMATED STARTING DATE ESTIMATED COMPLETION DATE /g/q d /20/94- hereby agree to comply with all requirements of this permit and Alameda	Approved Wyman Hong Date 20 Jan 96
County Ordinance No. 73-68. APPLICANT'S	wymati nong

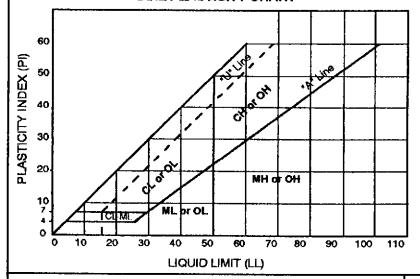
TONDO RELEMANDE

FRE NO. 5104625914

UNIFIED SOIL CLASSIFICATION CHART

SYMBOL	ETTER	DESCRIPTION	MAJOR DIVISIONS					
0 0	GW	WELL-GRADED GRAVELS OR GRAVEL-SAND MIXTURES, LITTLE OR NO FINES	CLEAN GRAVELS	ALF OF TION IS VNO.4 EMAY BE				
٠.	GP	POORLY GRADED GRAVELS OR GRAVEL SAND MIXTURES, LITTLE OR NO FINES	(LITTLE OR NO FINES)	GRAVELS MORE THAN HALF OF COARSE FRACTION IS LARGER THAN NO.4 SIEVE SIZE THE 1/4" SIZE MAY BE THE NO.4 SIEVE SIZE	S 5 5			
	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES	GRAVELS WITH FINES	GRAVELS GRAVELS ASE FRACTI ROER THAN! SIEVE SIZE E 1/4" SIZE M	SOILS ATERAL 18 SIEVE SIZE			
	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURIES	(APPRECIABLE AMOUNT OF FINES)	<u>8</u> 82 ¥#	AINE POF MO			
	sw	WELL-GRADED SAND OR GRAVELLY SANDS, LITTLE OR NO FINES	CLEAN '	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO.4 SIEVE SIZE FOR VISUAL CLASSIFICATION, THE 1/4" SIZE I	COARSE-GRAINED SOILS MORE THAN HALF OF MATERAL IS LARGER THAN NO 200 SIEVE SIZE IS ABOUT THE E NAKED EYE			
	SP	POORLY-GRADED SANDS OF GRAVELLY SANDS, LITTLE OF NO FINES	(LITTLE OR NO FINES)	SANDS MORE THAN HALF OF COARSE FRACTION IS SMALLER THAN NO.4 SIEVE SIZE OR VISUAL CLASSIFICAT USED AS EQUIVALENT	TAINED SOILS COARSE-G HALF OF MATERIAL IS THE NO.200 SIEVE SIZE THE NO.200 U.S. STANDARD SIEVE IS ABOUT THE SMALLEST PARTICLE VISIBLE TO THE NAKED EYE			
	SM	SILTY SANDS, SAND-SILT MIXTURES	SANDS WITH FINES	SAL RASE FA ALER SEVAL DASE	2			
**************************************	sc	CLAYEY SANDS, SAND-CLAY MIXTURES	(APPRECIABLE AMOUNT OF FINES)	⊼ 0.00 M	RD SIE			
	ML	INORGANIC SILTS, VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY			AL IS SIZE STANDA CLE VIS			
	CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS	SILTS &		SOILS WATERIA SEEVE S OOUS, S			
	OL	ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY		VED 8				
	HM	ORGANIC SILTS AND ORGANIC SILT-CLAYS OF LOW PLASTICITY			FINE-GRAINED SOILS MORE THAN HALF OF MATERIAL SMALLER THAN NO.200 SIEVE SI THE NO.200 U.S. ST SMALLEST PARTICL			
	СН	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS	SILTS LIQUIÐ LIMFT GI	FING-				
	OH	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS	M SNA					
	ΡŢ	PEAT AND OTHER HIGHLY ORGANIC SOILS	HIGHLY ORGANIC SOILS					

SOIL PLASTICITY CHART



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-2.8" 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 analysed
- PID-Photoionization Detector Reading in ppm

EVALUATION OF CONTAMINATION EXTENT FORMER CONDENSATE COLLECTOR LOCATION SAN LEANDRO, CALIFORNIA BSK Job No. P94014.4

PLATE 1

BSK & ASSOCIATES

FIELD DATA TYPE OF SAMPLER FOOT SAMPLE NUMBER PID READING, TIME OF COLLECTION BLOWS PER **SYMBOLS** 0 PMT CL/ CH 5 10:05 0.0 CS 9 10 2 10:15 0.5 CS 14 3 10:25 CS 8 15

BORING LOG B-1

DATE: 1/19/94

LOGGED BY: M. Cline

WATER LEVEL: Initially at 11.8 feet Below Surface Grade

ELEVATION: --

EQUIPMENT: Mobile Drill B-53, 8" Hollow Stem Auger

DESCRIPTION

Asphalt Concrete over aggregate baserock (approximately 2' thick)
(Ambient Air PID=25.0 ppm-Background)

SILTY CLAY: Dark grey, very moist

grades brown to olive, very moist, stiff, trace sand, no odor

grades olive mottled brown, moist to wet at 11.5 ft., no odor grades brown, wet, soft to stiff

Notes

- 1. Boring completed at a depth of 13 feet.
- Sampling resistance is measured in blows per foot required to drive the sampler 12 inches with a 140 lb. hammer falling 30 inches after the sampler has been seated 6 inches.
- Boring log indicates interpreted subsurface conditions only at the location and the time the boring was drilled.

EVALUATION OF CONTAMINATION EXTENT FORMER CONDENSATE COLLECTOR LOCATION SAN LEANDRO, CALIFORNIA

BSK Job No. P94014.4 PLATE 2

BSKASSOCIATES

BORING LOG B-2 FIELD DATA DATE: 1/19/94 LOGGED BY: M. Cline P00-PID READING, ppm TYPE OF SAMPLER SAMPLE NUMBER WATER LEVEL: None Encountered **ELEVATION: --**TIME OF COLLECTION BLOWS PER EQUIPMENT: Mobile Drill B-53, 8" Hollow Stern Auger **SYMBOLS** DESCRIPTION 0 PCC 8" Portland Cement Concrete (Fill) Aggregate Baserock 5 11:09 0.3 CS 1 18 CL/ SILTY CLAY: Olive to olive grey, moist, stiff CH slight indistinct odor, 10 2 11:20 CS 14 grades olive, wet in pores at 11.5 ft., drilled to then pushed drive point from 11.5 ft to 14.3 ft, no water observed in drive point after 1 hour 25 min. 15

Notes

- 1. Boring completed at a depth of 11.5 feet.
- Sampling resistance is measured in blows per foot required to drive the sampler 12 inches with a 140 lb. hammer falling 30 inches after the sampler has been seated 6 inches.
- Boring log indicates interpreted subsurface conditions only at the location and the time the boring was drilled.

EVALUATION OF CONTAMINATION EXTENT FORMER CONDENSATE COLLECTOR LOCATION SAN LEANDRO, CALIFORNIA

BSK Job No. P94014.4 PLATE 3



FIELD DATA F007 TYPE OF SAMPLER SAMPLE NUMBER PID READING, TIME OF COLLECTION BLOWS PER **SYMBOLS** 0 PCC CL/ CH 5 1 13:45 13.0 $\overline{\mathsf{cs}}$ 13 13:50 CS 19 10 3 14:10 0.1 CS 15 14:19 CS 8

15

BORING LOG B-3

DATE: 1/19/94

LOGGED BY: M. Cline

WATER LEVEL: Initially at 12.4 feet Below Surface Grade

ELEVATION: --

EQUIPMENT: Mobile Drill B-53, 8" Hollow Stem Auger

DESCRIPTION

19" Portland Cement Concrete

SILTY CLAY: Dark grey, moist

grades dark olive grey mottled black, stiff, strong acrid odor

grades olive grey, moist, no odor

grades olive

grades wet at 14.5 ft, some fine sand

Collected groundwater sample from open borehole with polyethylene bailer

Notes

- 1. Boring completed at a depth of 14.5 feet.
- Sampling resistance is measured in blows per foot required to drive the sampler 12 inches with a 140 lb. hammer falling 30 inches after the sampler has been seated 6 inches.
- Boring log indicates interpreted subsurface conditions only at the location and the time the boring was drilled.

EVALUATION OF CONTAMINATION EXTENT FORMER CONDENSATE COLLECTOR LOCATION SAN LEANDRO, CALIFORNIA

BSK Job No. P94014.4 PLATE 4

BSKA ASSOCIATES

FIELD DATA TYPE OF SAMPLER F007 SAMPLE NUMBER PID READING, ppr TIME OF COLLECTION **BLOWS PER SYMBOLS** 0 PCC 15:10 CS 11 CL/ CH 5 2 15:20 CS 12 10 3 15:25 CS 11 15

BORING LOG B-4

DATE: 1/19/94

LOGGED BY: M. Cline

WATER LEVEL: Initially at 11.5 feet Below Surface Grade

ELEVATION: --

EQUIPMENT: Mobile Drill B-53, 8" Hollow Stem Auger

DESCRIPTION

8" Portland Cement Concrete

Aggregate Baserock: Black, damp, septic odor

SILTY CLAY: Black, very moist, stiff

grades dark olive, no odor

grades olive with olive grey mottling, moist, no

Notes

- 1. Boring completed at a depth of 11.5 feet.
- Sampling resistance is measured in blows per foot required to drive the sampler 12 inches with a 140 lb. hammer falling 30 inches after the sampler has been seated 6 inches.
- Boring log indicates interpreted subsurface conditions only at the location and the time the boring was drilled.

EVALUATION OF CONTAMINATION EXTENT FORMER CONDENSATE COLLECTOR LOCATION SAN LEANDRO, CALIFORNIA

BSK Job No. P94014.4 PLATE 5

BSKA ASSOCIATES

SENDER'S COPY
DROP OFF YOUR PACKAGE AND SAVE

FELERA				AIRBILL		
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January 26, 1994 ENSECO CAL LAB PROJECT NUMBER: 073663

PO/CONTRACT: NA

John Schweizer BSK & Associates 1181 Quarry Lane. Bldg #300 Pleasanton, CA 94566

Dear Mr. Schweizer:

This report contains the analytical results for the four aqueous and ten soil samples which were received under chain of custody by Enseco Cal Lab on 20 January 1994. These samples are associated with your Airco Project.

The case narrative is an integral part of this report.

Preliminary results were sent to you via facsimile on 24 January 1994.

If you have any questions, please call me at (916) 374-4357.

Sincerely,

D, Rogen Steven D. Rogers Project Manager

kw

Enseco - CAL 2544 Industrial Boulevard West Sacramento, California 95691

916/372-1393 Fax: 916/372-7768



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ENSECO CAL LAB PROJECT NUMBER 073663

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Sample Data Sheets Method Blank Report

Laboratory Control Sample Report (DCS/SCS)

Volatile Organics (Aqueous) - Method 8240 Includes Samples: 10, 11, 12

Sample Data Sheets Method Blank Report

Laboratory Control Sample Report (DCS/SCS)

Oil & Grease, IR - Method SM 5520CF

Includes Sample: 10

Sample Data Sheet Method Blank Report

Laboratory Control Sample Report (DCS)



CASE NARRATIVE

ENSECO CAL LAB PROJECT NUMBER 073663

Volatile Organics (Aqueous) - Method 8240

Sample B-6#1 (073663-0012-TB) when analyzed was found to have 18ug/l of Bromomethane. Since this sample is a trip blank and bromomethane would be considered a questionable result, the sample was analyzed a second time on a different day. The second analysis confirmed the presence of the compound, we therefore reported the data from the original analysis as a positive result.

No other anomalies were associated with this report.



ENSECO CAL LAB'S QUALITY ASSURANCE PROGRAM

Enseco Cal Lab has implemented an extensive Quality Assurance (QA) program to ensure the production of scientifically sound, legally defensible data of known documental quality. A key element of this program is Enseco's Laboratory Control Sample (LCS) system. Controlling lab operations with LCS (as opposed to matrix spike/matrix spike duplicate samples), allows the lab to differentiate between bias as a result of procedural errors versus bias due to matrix effects. The analyst can then identify and implement the appropriate corrective actions at the bench level, without waiting for extensive senior level review or costly and time-consuming sample reanalyses. The LCS program also provides our client with information to assess batch, and overall laboratory performance.

<u>Laboratory Control Samples - (LCS)</u>

Laboratory Control Samples (LCS) are well-characterized, laboratory generated samples used to monitor the laboratory's day-to-day performance of routine analytical methods. The results of the LCS are compared to well-defined laboratory acceptance criteria to determine whether the laboratory system is "in control". Three types of LCS are routinely analyzed: Duplicate Control Samples (DCS), Single Control Samples (SCS), and method blanks. Each of these LCS are described below.

<u>Duplicate Control Samples.</u> A DCS is a well-characterized matrix (blank water, sand, sodium sulfate or celite) which is spiked with certain target parameters and analyzed at approximately 10% of the sample load in order to establish method-specific control limits.

<u>Single Control Samples</u>. An SCS consists of a control matrix that is spiked with surrogate compounds appropriate to the method being used. In cases where no surrogate is available, (e.g. metals or conventional analyses) a single control sample identical to the DCS serves as the control sample. An SCS is prepared for each sample lot. Accuracy is calculated identically to the DCS.

<u>Method Blank Results.</u> A method blank is a laboratory-generated sample which assesses the degree to which laboratory operations and procedures cause false-positive analytical results for your samples.



SAMPLE DESCRIPTION INFORMATION for BSK & Associates

Lab ID Client ID Matrix Date Time Date 073663-0001-SA B-1 Sample 1 @ 5' SOIL 19 JAN 94 10:05 20 JAN 94 073663-0002-SA B-1 Sample 2 @ 10' SOIL 19 JAN 94 10:15 20 JAN 94 073663-0003-SA B-2 Sample 1 @ 8' SOIL 19 JAN 94 11:09 20 JAN 94 073663-0004-SA B-2 Sample 2 @ 10.5' SOIL 19 JAN 94 11:20 20 JAN 94 073663-0005-SA B-3 Sample 1 @ 5' SOIL 19 JAN 94 13:45 20 JAN 94 073663-0006-SA B-3 Sample 2 @ 9' SOIL 19 JAN 94 13:50 20 JAN 94 073663-0007-SA B-3 Sample 4 @ 13.5' SOIL 19 JAN 94 14:19 20 JAN 94 073663-0008-SA B-4 Sample 1 @ 2.5' SOIL 19 JAN 94 15:10 20 JAN 94 073663-0009-SA B-4 Sample 3 @ 10' SOIL 19 JAN 94 15:25 20 JAN 94 073663-0010-SA B-3 Water AQUEOUS 19 JAN 94 15:57 20 JAN 94 073663-0011-EB B-5 #1 AQUEOUS 19 JAN 94 09:30 20 JAN 94 073663-0013-SA Rinsate Water AQUEOUS 19 JAN 94 16:10 20 JAN 94				Sampl	ed	Received
073663-0002-SA B-1 Sample 2 @ 10' SOIL 19 JAN 94 10:15 20 JAN 94 073663-0003-SA B-2 Sample 1 @ 8' SOIL 19 JAN 94 11:09 20 JAN 94 073663-0004-SA B-2 Sample 2 @ 10.5' SOIL 19 JAN 94 11:20 20 JAN 94 073663-0005-SA B-3 Sample 1 @ 5' SOIL 19 JAN 94 13:45 20 JAN 94 073663-0006-SA B-3 Sample 2 @ 9' SOIL 19 JAN 94 13:50 20 JAN 94 073663-0007-SA B-3 Sample 4 @ 13.5' SOIL 19 JAN 94 14:19 20 JAN 94 073663-0008-SA B-4 Sample 1 @ 2.5' SOIL 19 JAN 94 15:10 20 JAN 94 073663-0010-SA B-3 Water AQUEOUS 19 JAN 94 15:57 20 JAN 94 073663-0011-EB B-5 #1 AQUEOUS 19 JAN 94 09:15 20 JAN 94 073663-0012-TB B-6 #1 AQUEOUS 19 JAN 94 09:30 20 JAN 94 073663-0013-SA Rinsate Water AQUEOUS 19 JAN 94 16:10 20 JAN 94	Lab ID	Client ID	Matrix			
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1414 Stanislaus Street Fresno, CA 93706 (209) 485-8310 (800) 877-8310

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Analyses Request / Chain of Custody

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OO THE SAMPLE(S) POSE ANY POTENTIAL HAZARD(S	i)? IF YES, P	LEASE EXPLAI	V							<u> </u>		- <u></u> -	·	
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Volatile Organics (Soil) - Method 8240



Client Name: BSK & Associates Client ID: B-1 Sample 1 @ 5' Lab ID: 073663-0001-SA

Sampled: 19 JAN 94 Prepared: NA Received: 20 JAN 94 Analyzed: 20 JAN 94 Matrix: SOIL 20 JAN 94 Authorized:

Parameter	Result	Wet wt. Units	Reporting Limit
Acetone	ND	ug/kg	10
Benzene	ND	ug/kg	5.0
Bromodichloromethane	ND	ug/kg	5.0
Bromoform	ND	ug/kg	5.0
Bromomethane	ND	ug/kg	10
2-Butanone (MEK)	ND	ug/kg	10
Carbon disulfide	ND	ug/kg	5.0
Carbon tetrachloride	ND	ug/kg	5.0 5.0
Chlorobenzene	ND ND	ug/kg	10
Chloroethane	ND ND	ug/kg ug/kg	5.0
Chloroform Chloromethane	ND ND	ug/kg ug/kg	10
Dibromochloromethane	ND	ug/kg	¹ 5.0
1,1-Dichloroethane	ND	ug/kg ug/kg	5.0
1,2-Dichloroethane	ND	ug/kg	5.ŏ
1,1-Dichloroethene	ND	ug/kg	5.0
1,2-Dichloroethene	710	ביי וכיי	
(Total)	ND	ug/kg	5.0
1,2-Dichloropropane	ND	ug/kg	5.0
cis-1,3-Dichloropropene	ND	ugʻ/kg	5.0
trans-1,3-Dichloropropene	ND	ug/kg	5.0
Ethylbenzene	ND	ug/kg	5.0
2-Hexanone	ND	ug/kg	10
Methylene chloride	ND	ug/kg	5.0
4-Methyl-2-pentanone			
(MIBK)	ND	ug/kg	10
Styrene	ND	ug/kg	5.0
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0
<u>Tetrachloroethene</u>	ND	ug/kg	5.0
Toluene	ND	ug/kg	5.0
1,1,1- <u>T</u> richloroethane	ND	ug/kg	5.0
1,1,2-Trichloroethane	ND	ug/kg	5.0
Trichloroethene	ND	ug/kg	5.0 10
Vinyl acetate	ND ND	ug/kg	10
Vinyl chloride	ND ND	ug/kg ug/kg	5.0
Xylenes (total)	กบ	ug/ kg	3.0
Surrogate	Recovery		

Toluene-d8 4-Bromofluorobenzene 106 94

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers

The cover letter is an integral part of this report.

Rev 230787



Client Name: BSK & Associates Client ID: B-1 Sample 1 @ 5'

Lab ID: 073663-0001-SA

Matrix: SOIL Sampled: 19 JAN 94 Authorized: 20 JAN 94 Prepared: NA Received: 20 JAN 94 Analyzed: 20 JAN 94

Surrogate

Recovery

1,2-Dichloroethane-d4

96 %

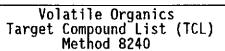
ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers

The cover letter is an integral part of this report.

Rev 230787





Client Name: BSK & Associates Client ID: B-1 Sample 2 @ 10' Lab ID: 073663-0002-SA

Matrix: SOIL Sampled: 19 JAN 94 Received: 20 JAN 94 Authorized: 20 JAN 94 Prepared: NA Analyzed: 20 JAN 94

Parameter	Result	Wet wt. Units	Reporting Limit
Acetone	ND	ug/kg	10
Benzene	ND	ug/kg	5.0
Bromodichloromethane	ND	ug/kg	5.0
Bromoform	ND	ug/kg	5.0
Bromomethane	ND	ug/kg	10
2-Butanone (MEK)	ND	ug/kg	10
Carbon disulfide	ND ND	ug/kg	5.0
Carbon tetrachloride Chlorobenzene	ND ND	ug/kg	5.0 5.0
Chloroethane	ND ND	ug/kg ug/kg	10
Chloroform	ND ND	ug/kg ug/kg	5.0
Chloromethane	ND	ug/kg	10
Dibromochloromethane	ND	ug/kg	
1,1-Dichloroethane	ND	ug/kg	5.0
1,2-Dichloroethane	ND	ug/kg	5.0
1,1-Dichloroethene	ND	ug/kg	5.0
1,2-Dichloroethene		-5, -5	
(Total)	ND	ug/kg	5.0
1,2-Dichloropropane	ND	ug/kg	5.0
cis-1,3-Dichloropropene	ND	ug/kg	5.0
trans-1,3-Dichloropropene	ND	ug/kg	5.0
Ethylbenzene	ND	ug/kg	_5.0
2-Hexanone	ND	ug/kg	10
Methylene chloride	ND	ug/kg	5.0
4-Methyl-2-pentanone	ND	um/lem	10
(MIBK) Styrene	ND ND	ug/kg	10 5.0
1,1,2,2-Tetrachloroethane	ND ND	ug/kg ug/kg	5.0
Tetrachloroethene	ND	ug/kg ug/kg	5.0
Toluene	ND	ug/kg	5.0
1,1,1-Trichloroethane	ND	ug/kg	5.0
1,1,2-Trichloroethane	ND	ug/kg	5.0
Trichloroethene	ND	ug/kg	5.0
Vinyl acetate	ND	ug/kg	10
Vinyl chloride	ND	ug/kg	10
Xylenes (total)	ND	ug/kg	5.0
Surrogate	Recovery		
Toluene-d8	103	%	
4-Bromofluorobenzene	99	a.i	

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Steve Siegel Approved By: Steve Rogers

The cover letter is an integral part of this report. Rev 230787



Client Name: BSK & Associates Client ID: B-1 Sample 2 @ 10'

Lab ID: 073663-0002-SA

Matrix: SOIL Sampled: 19 JAN 94 Received: 20 JAN 94 Authorized: 20 JAN 94 Prepared: NA Analyzed: 20 JAN 94

Surrogate

Recovery

1,2-Dichloroethane-d4

98

%

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers

The cover letter is an integral part of this report. Rev 230787



Client Name: BSK & Associates Client ID: B-2 Sample 1 @ 8' Lab ID: 073663-0003-SA

Received: 20 JAN 94 Analyzed: 20 JAN 94 SOIL 20 JAN 94 Sampled: 19 JAN 94 Matrix: Authorized: Prepared: NA

Parameter	Result	Wet wt. Units	Reporting Limit	
Acetone	14	ug/kg	10	b
Benzene	ND	ug/kg	5.0	
Bromodichloromethane	ND	ug/kg	5.0	
Bromoform	ND	ug/kg	5.0	
Bromomethane	ND	ug/kg	10	
2-Butanone (MEK)	ND	ug/kg	10	
Carbon disulfidé	ND	ug/kg	5.0	
Carbon tetrachloride	ND	ug/kg	5.0	
Chlorobenzene	ND	ug/kg	5.0	
Chloroethane	ND	ug/kg	10	
Chloroform	ND	ug/kg	5.0	
Chloromethane	ND	ug/kg	10	
Dibromochloromethane	ND	ug/kg	5.0	
1,1-Dichloroethane	ND	ug/kg	5.0	
1,2-Dichloroethane	ND	ug/kg	5.0	
1,1-Dichloroethene	ND	ug/kg	5.0	
1,2-Dichloroethene				
(Total)	ND	ug/kg	5.0	
1,2-Dichloropropane	ND	ug/kg	5.0	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	
Ethylbenzene	ND	ug/kg	5.0	
2-Hexanone	ND	ug/kg	10	
Methylene chloride	ND	ug/kg	5.0	
4-Methyl-2-pentanone		4.		
(MIBK)	ND	ug/kg	10	
Styrene	ND	ug/kg	5.0	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	
<u>Tetrachloroethene</u>	ND	ug/kg	5.0	
Toluene	ND	ug/kg	5.0	
1,1,1-Irichloroethane	ND	ug/kg	5.0	
1,1,2-Trichloroethane	ND	ug/kg	5.0	
Trichloroethene	ND	ug/kg	5.0	
Vinyl acetate	ND	ug/kg	10	
Vinyl chloride	ND	ug/kg	10	
Xylenes (total)	ND	ug/kg	5.0	
Surrogate	Recovery			
Toluene-d8	103	%		
4-Bromofluorobenzene	97	%		

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Steve Siegel Approved By: Steve Rogers

The cover letter is an integral part of this report.
Rev 230787



Client Name: BSK & Associates Client ID: B-2 Sample 1 @ 8'

Lab ID: 073663-0003-SA Matrix: SOIL

Matrix: SOIL Sampled: 19 JAN 94 Authorized: 20 JAN 94 Prepared: NA Received: 20 JAN 94 Analyzed: 20 JAN 94

Surrogate

Recovery

1,2-Dichloroethane-d4

97

%

Note b: Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers

The cover letter is an integral part of this report. Rev 23078%



Client Name: BSK & Associates Client ID: B-2 Sample 2 @ 10.5' Lab ID: 073663-0004-SA

Received: 20 JAN 94 Analyzed: 20 JAN 94 Matrix: **J102** Sampled: 19 JAN 94 20 JAN 94 Authorized: Prepared: NA

Parameter	Result	Wet wt. Units	Reporting Limit	
Acetone	17	ug/kg	10	b
Benzene	ND	ug/kg	5.0	
Bromodichloromethane	ND	ug/kg	5.0	
Bromoform	ND	ug/kg	5.0	
Bromomethane	ND	ug/kg	10	
2-Butanone (MEK)	ND	ug/kg	10	
Carbon disulfide	ND	ug/kg	5.0	
Carbon tetrachloride	ND	ug/kg	5.0	
Chlorobenzene	ND	ug/kg	5.0	
Chloroethane	ND	ug/kg	10	
Chloroform	ND	ug/kg	5.0	
Chloromethane	ND	ug/kg	10	
Dibromochloromethane	ND	ug/kg	5.0	
1,1-Dichloroethane	ND	ug/kg	5.0	
1,2-Dichloroethane	ND	ug/kg	5.0	
1,1-Dichloroethene	ND	ug/kg	5.0	
1,2-Dichloroethene (Total)	ND	ua/ka	5.0	
1,2-Dichloropropane	ND ND	ug/kg	5.0	
cis-1,3-Dichloropropene	ND ND	ug/kg	5.0	
trans-1,3-Dichloropropene	ND ND	ug/kg ug/kg	5.0	
Ethylbenzene	ND ND	ug/kg ug/kg	5.0	
2-Hexanone	ND	ug/kg ug/kg	10	
Methylene chloride	ND	ug/kg	5.0	
4-Methyl-2-pentanone	140	ug/ kg	3.0	
(MIBK)	ND	ug/kg	10	
Styrene	ND	ug/kg	¹ 5.0	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	
Tetrachloroethene	NĎ	ug/kg	5.0	
Toluene	ND	ug/kg	5.0	
1,1,1-Trichloroethane	ND	ug/kg	5.0	
1,1,2-Trichloroethane	ND	ug/kg	5.0	
Trichloroethene	ND	ug/kg	5.0	
Vinyl acetate	ND	ug/kg	10	
Vinyl chloride	ND	ug/kg	10	
Xylenes (total)	ND	ug/kg	5.0	
Surrogate	Recovery			
Toluene-d8	107	%		
A-Reamofluarahanzana	0.3	0 /		

4-Bromofluorobenzene 93

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers

The cover letter is an integral part of this report.

Rev 230787



Client Name: BSK & Associates Client ID: B-2 Sample 2 @ 10.5'

Lab ID: 073663-0004-SA

Matrix: SOIL Sampled: 19 JAN 94 Received: 20 JAN 94 Authorized: 20 JAN 94 Prepared: NA Analyzed: 20 JAN 94

Surrogate Recovery

1,2-Dichloroethane-d4 98 %

Note b: Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

ND = Not detected NA = Not applicable

Reported By: Steve Siegel Approved By: Steve Rogers

The cover letter is an integral part of this report.

Rev 230787-



Client Name: BSK & Associates Client ID: B-3 Sample 1 @ 5' Lab ID: 073663-0005-SA

Matrix: SOIL Sampled: 19 JAN 94 Received: 20 JAN 94 Authorized: 20 JAN 94 Prepared: NA Analyzed: 21 JAN 94

Parameter	Result	Wet wt. Units	Reporting Limit	
Acetone	3100	ug/kg	1000	RDb
Benzene	ND	ug/kg	5.0	
Bromodichloromethane	ND	ug/kg	5.0	
Bromoform	ND	ug/kg	5.0	
Bromomethane	ND	ug/kg	10	
2-Butanone (MEK)	74	ug/kg	10	
Carbon disulfide	ND	ug/kg	5.0	
Carbon tetrachloride	ND	ug/kg	5.0	
Chlorobenzene	ND	ug/kg	5.0	
Chloroethane	ND	ug/kg	10	
Chloroform	ND	ug/kg	5.0	
Chloromethane	ND	ug/kg	10	
Dibromochloromethane	ND	ug/kg	5.0	
1,1-Dichloroethane	ND	ug/kg	5.0	
1,2-Dichloroethane	ND	ug/kg	5.0	
1,1-Dichloroethene	ND	ug/kg	5.0	
1,2-Dichloroethene				
(Total)	ND	ug/kg	5.0	
1,2-Dichloropropane	ND	ug/kg	5.0	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	
Ethylbenzene	ND	ug/kg	5.0	
2-Hexanone	ND	ug/kg	10	
Methylene_chloride	ND	ug/kg	5.0	
4-Methyl-2-pentanone				
(MIBK)	ND	ug/kg	10	
Styrene	ND	ug/kg	5.0	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	
Tetrachloroethene	ND	ug/kg	5.0 5.0	
Toluene	ND	ug/kg	5.0	
1,1,1-Trichloroethane	ND	ug/kg	5.0	
1,1,2-Trichloroethane	ND	ug/kg	5.0	
Trichloroethene	ND	ug/kg	5.0	
Vinyl acetate	ND	ug/kg	10	
Vinyl chloride	ND	ug/kg	10	
Xylenes (total)	ND	ug/kg	5.0	
Surrogate	Recovery		·	
Toluene-d8	104	%		
4-Bromofluorobenzene	101	%		
	741	,,		

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers



Client Name: BSK & Associates Client ID: B-3 Sample 1 @ 5' Lab ID: 073663-0005-SA

Matrix: SOIL Authorized: 20 JAN 94 Sampled: 19 JAN 94 Prepared: NA

Received: 20 JAN 94 Analyzed: 21 JAN 94

Surrogate

Recovery

1,2-Dichloroethane-d4

98

%

Note R : Raised reporting limit(s) due to high analyte level(s).

Note D : Compound quantitated using a secondary dilution.

Note b: Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers



Client Name: BSK & Associates Client ID: B-3 Sample 2 @ 9' Lab ID: 073663-0006-SA

Received: 20 JAN 94 Matrix: SOIL Sampled: 19 JAN 94 Authorized: 20 JAN 94 Prepared: NA Analyzed: 21 JAN 94

Parameter	Result	Wet wt. Units	Reporting Limit	
Acetone	18	ug/kg	10	b
Benzene	ND	ug/kg	5.0	
Bromodichloromethane	ND	ug/kg	5.0	
Bromoform	ND	ug/kg	5.0	
Bromomethane	ND	ug/kg	10	
2-Butanone (MEK)	ND	ug/kg	10	
Carbon disulfide	ND	ug/kg	5.0	
Carbon tetrachloride	ND	ug/kg	5.0	
Chlorobenzene	ND	ug/kg	5.0	
Chloroethane	ND	ug/kg	10	
Chloroform	ND	ug/kg	5.0	
Chloromethane	ND	ug/kg	10	
Dibromochloromethane	ND	ug/kg	5.0	
1,1-Dichloroethane	ND	ug/kg	5.0	
1,2-Dichloroethane	ND	ug/kg	5.0	
1,1-Dichloroethene	ND	ug/kg	5.0	
1,2-Dichloroethene	115	41		
(Total)	ND	ug/kg	5.0	
1,2-Dichloropropane	ND	ug/kg	5.0	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	
Ethylbenzene	ND	ug/kg	5.0	
2-Hexanone	ND	ug/kg	10	L.
Methylene chloride	5.4	ug/kg	5.0	b
4-Methyl-2-pentanone	ND	ua /lea	10	
(MIBK)	ND ND	ug/kg	10 5.0	
Styrene 1,1,2,2-Tetrachloroethane	ND ND	ug/kg	5.0	
Tetrachloroethene	ND ND	ug/kg	5.0	
Toluene	ND ND	ug/kg	5.0	
1,1,1-Trichloroethane	ND	ug/kg ug/kg	5.0	
1,1,2-Trichloroethane	ND	ug/kg ug/kg	5.0	
Trichloroethene	ND	ug/kg ug/kg	5.0	
Vinyl acetate	ND	ug/kg ug/kg	10	
Vinyl chloride	ND	ug/kg	iŏ	
Xylenes (total)	ND	ug/kg	, 5.0	
Aylenes (cocal)	NU	ug/ kg	3.0	
Surrogate	Recovery			
Toluene-d8	101	%		

4-Bromofluorobenzene

95 %

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Brian Ruscio

Approved By: Steve Rogers



Client Name: BSK & Associates Client ID: B-3 Sample 2 @ 9' Lab ID: 073663-0006-SA

Matrix: SOIL Authorized: 20 JAN 94

Sampled: 19 JAN 94 Prepared: NA Received: 20 JAN 94 Analyzed: 21 JAN 94

Surrogate

Recovery

1,2-Dichloroethane-d4

94

%

Note b : Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

ND = Not detected NA = Not applicable

Reported By: Brian Ruscio

Approved By: Steve Rogers



Client Name: BSK & Associates Client ID: B-3 Sample 4 @ 13.5'

073663-0007-SA Lab ID:

Sampled: 19 JAN 94 Prepared: NA Received: 20 JAN 94 Matrix: SOIL Authorized: 20 JAN 94 Analyzed: 20 JAN 94

Parameter	Result	Wet wt. Units	Reporting Limit
Acetone	ND	ug/kg	10
Benzene	ND	ug/kg	5.0
Bromodichloromethane	ND	ug/kg	5.0
Bromoform	ND	ug/kg	5.0
Bromomethane	ND	ug/kg	10
2-Butanone (MEK)	ND	ug/kg	10
Carbon disulfide	ND	ug/kg	5.0
Carbon tetrachloride	ND	ug/kg	5.0
Chlorobenzene	ND	ug/kg	5.0
Chloroethane	ND	ug/kg	10
Chloroform	ND	ug/kg	5.0
Chloromethane	ND ND	ug/kg	10
Dibromochloromethane	ND ND	ug/kg	5.0
1,1-Dichloroethane 1,2-Dichloroethane	ND ND	ug/kg	5.0 5.0
1,1-Dichloroethene	ND ND	ug/kg ug/kg	5.0
1,2-Dichloroethene	เกบ	ug/ kg	5.0
(Total)	ND	ug/kg	5.0
1,2-Dichloropropane	ND	ug/kg	5.Ŏ
cis-1,3-Dichloropropene	ND	ug/kg	5.ŏ
trans-1,3-Dichloropropene	ND	ug/kg	5.0
Ethylbenzene	ND	ug/kg	5.0
2-Hexanone	NĎ	ug/kg	10
Methylene chloride	ND	ug/kg	5.0
4-Methyl-2-pentanone			
(MĬBK)	ND	ug/kg	10
Styrène	ND	ug/kg	5.0
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0
Tetrachloroethene	ND	ug/kg	5.0
Toluene	ND	ug/kg	5.0
1,1,1-Irichloroethane	ND	ug/kg	5.0
1,1,2-Trichloroethane	ND	ug/kg	5.0
Trichloroethene	ND	ug/kg	5.0
Vinyl acetate	ND	ug/kg	10
Vinyl chloride	ND	ug/kg	10
Xylenes (total)	ND	ug/kg	5.0
Surrogate	Recovery		

Toluene-d8 106 4-Bromofluorobenzene 94

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers



Client Name: BSK & Associates Client ID: B-3 Sample 4 @ 13.5' Lab ID: 073663-0007-SA

Received: 20 JAN 94 Analyzed: 20 JAN 94 Sampled: 19 JAN 94 Prepared: NA Matrix: SOIL 20 JAN 94 Authorized:

Surrogate

Recovery

1,2-Dichloroethane-d4

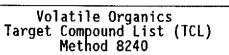
98

%

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers





Client Name: BSK & Associates Client ID: B-4 Sample 1 @ 2.5' Lab ID: 073663-0008-SA Client ID: Lab ID: Matrix:

Sampled: 19 JAN 94 Prepared: NA Received: 20 JAN 94 Analyzed: 20 JAN 94 SOIL 20 JAN 94 Authorized:

Parameter	Result	Wet wt. Units	Reporting Limit	
r ar and our	Result	Offics	LIMIC	
Acetone	31	ug/kg	10	ь
Benzene	ND	uğ/kğ	5.0	
Bromodichloromethane	ND	ug/kg	5.0	
Bromoform	ND	ug/kg	5.0	
Bromomethane	ND	ug/kg	10	
2-Butanone (MEK)	NÐ	ug/kg	10	
Carbon disulfide	ND	ug/kg	5.0	
Carbon tetrachloride	ND	ug/kg	5.0	
Chlorobenzene	ND	ug/kg	5.0	
Chloroethane	ND	ug/kg	10	
Chloroform	ND	ug/kg	5.0	
Chloromethane	ND	ug/kg	10	
Dibromochloromethane	ND	ug/kg	5.0	
1,1-Dichloroethane	ND	ug/kg	5.0	
1,2-Dichloroethane	ND	ug/kg	5.0	
1,1-Dichloroethene	ND	ug/kg	5.0	
1,2-Dichloroethene		41		-
(Total)	ND	ug/kg	5.0	
1,2-Dichloropropane	ND	ug/kg	5.0	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	
Ethylbenzene 2-Hexanone	ND	ug/kg	5.0	
	ND	ug/kg	10	
Methylene chloride 4-Methyl-2-pentanone	ND	ug/kg	5.0	
(MIBK)	MD	um /lem	10	
Styrene	ND	ug/kg	10	
1,1,2,2-Tetrachloroethane	ND	ug/kg	5.0	
Tetrachloroethene	ND ND	ug/kg	5.0	
Toluene	ND ND	ug/kg	5.0 5.0	
1,1,1-Trichloroethane	ND ND	ug/kg	5.0	
1,1,2-Trichloroethane	ND	ug/kg	5.0	
Trichloroethene	ND	ug/kg ug/kg	5.0 5.0	
Vinyl acetate	ND	ug/kg ug/kg	10	
Vinyl chloride	ND ND	ug/kg ug/kg	10	
Xylenes (total)	ND	ug/kg	5.0	
13.000 (00001)	HD	49/ Ng	3.0	
Surrogate	Dacovary			

Surrogate Recovery

Toluene-d8 4-Bromofluorobenzene 114 86

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Steve Siegel Approved By: Steve Rogers



Client Name: BSK & Associates Client ID: B-4 Sample 1 @ 2.5'

Lab ID: 073663-0008-SA

Matrix: SOIL Sampled: 19 JAN 94 Received: 20 JAN 94 Authorized: 20 JAN 94 Prepared: NA Analyzed: 20 JAN 94

Surrogate

Recovery

1,2-Dichloroethane-d4

99 %

Note b: Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers



Client Name: BSK & Associates B-4 Sample 3 @ 10' 073663-0009-SA Client ID: Lab ID:

Sampled: 19 JAN 94 Prepared: NA Received: 20 JAN 94 Analyzed: 20 JAN 94 Matrix: SOIL Authorized: 20 JAN 94

Parameter	Result	Wet wt. Units	Reporting Limit	
Acetone	12	ug/kg	10	Ь
Benzene	ND	ug/kg	5.0	_
Bromodichloromethane	ND	ug/kg	5.0	
Bromoform	ND	ug/kg	5.0	
Bromomethane	ND	ug/kg	10	
2-Butanone (MEK)	ND	ug/kg	10	
Carbon disulfidé	ND	ug/kg	5.0	
Carbon tetrachloride	ND	ug/kg	5.0	
Chlorobenzene	ND	ug/kg	5.0	
Chloroethane	ND	ug/kg	10	
Chloroform	ND	ug/kg	5.0	
Chloromethane	ND	ug/kg	10	
Dibromochloromethane	ND	ug/kg	5.0	
1,1-Dichloroethane	ND	ug/kg	5.0	
1,2-Dichloroethane	ND	ug/kg	5.0	
1,1-Dichloroethene	ND	ug/kg	5.0	
1,2-Dichloroethene				
(Total)	ND	ug/kg	5.0	
1,2-Dichloropropane	ND	ug/kg	5.0	
cis-1,3-Dichloropropene	ND	ug/kg	5.0	
trans-1,3-Dichloropropene	ND	ug/kg	5.0	
Ethylbenzene	ND	ug/kg	15.0	
2-Hexanone	ND	ug/kg	10	
Methylene chloride	ND	ug/kg	5.0	
4-Methyl-2-pentanone	ND	/l	10	
(MIBK) Styrene	ND	ug/kg	10	
1,1,2,2-Tetrachloroethane	ND ND	ug/kg	5.0 5.0	
Tetrachloroethene	ND ND	ug/kg	5.0 5.0	
Toluene	ND	ug/kg	5.0 5.0	
1,1,1-Trichloroethane	ND ND	ug/kg ug/kg	5.0	
1,1,2-Trichloroethane	ND	ug/kg ug/kg	5.0	
Trichloroethene	ND	ug/kg	5.0	
Vinyl acetate	ND	ug/kg	10	
Vinyl chloride	ND	ug/kg	10	
Xylenes (total)	ND	ug/kg	5.0	
Surrogate	Recovery			
Toluene-d8	104	%		

4-Bromofluorobenzene

95 %

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers



Client Name: BSK & Associates Client ID: B-4 Sample 3 @ 10'

Lab ID: 073663-0009-SA

Matrix: SOIL Sampled: 19 JAN 94 Received: 20 JAN 94 Authorized: 20 JAN 94 Prepared: NA Analyzed: 20 JAN 94

Surrogate

Recovery

1,2-Dichloroethane-d4

98

%

Note b: Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers



QC LOT ASSIGNMENT REPORT Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
073663-0001-SA	SOIL	8240-SL	18 JAN 94-4A	20 JAN 94-4A
073663-0002-SA	SOIL	8240-SL	18 JAN 94-4A	20 JAN 94-4A
073663-0003-SA	SOIL	8240-SL	18 JAN 94-4A	20 JAN 94-4A
073663-0004-SA	SOIL	8240-SL	18 JAN 94-4A	20 JAN 94-4A
073663-0005-SA	SOIL	8240-SL	18 JAN 94-4A	20 JAN 94-4A
073663-0006-SA	SOIL	8240-SL	21 JAN 94-3A	21 JAN 94-3A
073663-0007-SA	SOIL	8240-SL	18 JAN 94-4A	20 JAN 94-4A
073663-0008-SA	SOIL	8240-SL	18 JAN 94-4A	20 JAN 94-4A
073663-0009-SA	SOIL	8240-SL	18 JAN 94-4A	20 JAN 94-4A



METHOD BLANK REPORT Volatile Organics by GC/MS

Analyte	Result	Units	Reporting Limit
Test: 8240CPL-TCL-S Matrix: SOIL QC Lot: 18 JAN 94-4A QC	Run: 20 JAN 94-4A		
Acetone Benzene Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Dibromochloromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethene 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene 2-Hexanone Methylene chloride 4-Methyl-2-pentanone (MIBK)		ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	10 5.0 5.0 5.0 10 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.
Styrene' 1,1,2,2-Tetrachloroethane 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Vinyl acetate Vinyl chloride Xylenes (total)	ND ND ND ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	5.0 5.0 5.0 5.0 5.0 10 10 5.0



METHOD BLANK REPORT Volatile Organics by GC/MS (cont.)

Analyte	Result	Units	Reporting Limit
Test: 8240CPL-TCL-S Matrix: SOIL QC Lot: 21 JAN 94-3A QC Run:	21 JAN 94-3A		
Acetone Benzene Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Dibromochloromethane 1,1-Dichloroethane 1,2-Dichloroethene 1,2-Dichloroethene	ND ND ND ND ND ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	10 5.0 5.0 10 10 5.0 5.0 5.0 5.0 5.0 5.0
(Total) 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene 2-Hexanone Methylene chloride	ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	5.0 5.0 5.0 5.0 5.0 10 5.0
4-Methyl-2-pentanone (MIBK) Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Vinyl acetate Vinyl chloride Xylenes (total)	ND ND ND ND ND ND ND ND	ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg ug/kg	10 5.0 5.0 5.0 5.0 5.0 10 10 5.0



DUPLICATE CONTROL SAMPLE REPORT Volatile Organics by GC/MS

		entration				uracy	Precision
Analyte	Spiked	DCS1	Measured DCS2	AVG	Aver DCS	age(%) Limits	(RPD) DCS Limit
Category: 8240-SL Matrix: SOIL QC Lot: 18 JAN 94-4A Concentration Units: ug/kg							
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50 50 50 50 50	43.7 47.1 51.0 48.5 50.0	43.2 45.6 49.3 48.0 49.6	43.4 46.4 50.2 48.2 49.8	87 93 100 97 100	63-165 68-114 84-120 82-118 81-121	1.2 16.0 3.2 12.0 3.4 11.0 1.0 13.0 0.8 14.0
Category: 8240-SL Matrix: SOIL QC Lot: 21 JAN 94-3A Concentration Units: ug/kg							
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50 50 50 50 50	46.9 50.8 53.6 53.8 53.4	43.5 46.9 50.9 50.9 50.4	45.2 48.8 52.2 52.4 51.9	90 98 105 105 104	63-165 68-114 84-120 82-118 81-121	7.5 16.0 8.0 12.0 5.2 11.0 5.5 13.0 5.8 14.0

Calculations are performed before rounding to avoid round-off errors in calculated results.



SINGLE CONTROL SAMPLE REPORT Volatile Organics by GC/MS

	Concentration	Accuracy(%)
Analyte	Spiked Measure	d SCS Limits
Category: 8240-SL Matrix: SOIL QC Lot: 18 JAN 94-4A QC Run: Concentration Units: ug/kg	20 JAN 94-4A	
1,2-Dichloroethane-d4	50.0 49.0	
Toluene-d8 4-Bromofluorobenzene	50.0 50.3 50.0 50.4	
Category: 8240-SL Matrix: SOIL QC Lot: 21 JAN 94-3A QC Run: Concentration Units: ug/kg		
1,2-Dichloroethane-d4 Toluene-d8	50.0 44.8	
4-Bromofluorobenzene	50.0 49. 50.0 49.	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Volatile Organics (Aqueous) - Method 8240



Client Name: BSK & Associates Client ID: B-3 Water

Lab ID: 073663-0010-SA

Sampled: 19 JAN 94 Received: 20 JAN 94 Analyzed: 21 JAN 94 Matrix: AQUEOUS Authorized: 20 JAN 94 Prepared: NA

Parameter	Result	Units	Reporting Limit	
Acetone	10	ug/L	10	b
Benzene	ND	ug/L	5.0	
Bromodichloromethane	ND	ug/L	5.0	
Bromoform	ND	ug/L	5.0	
Bromomethane	ND	ugʻ/L	10	
2-Butanone (MEK)	ND	ugʻ/L	10	
Carbon disulfidé	ND	ug/L	5.0	
Carbon tetrachloride	ND	uğ/L	5.0	
Chlorobenzene	ND	ug/L	5.0	
Chloroethane	ND	ug/L	10	
Chloroform	ND	ug/L	5.0	
Chloromethane	ND	ug/L	10	
Dibromochloromethane	ND	ug/L	5.0	
1,1-Dichloroethane	ND	ug/L	5.0	
1,2-Dichloroethane	ND	ug/L	5.0	
1,1-Dichloroethene	ND	ug/L	5.0	
1,2-Dichloroethene				
(Total)	ND	ug/L	5.0	
1,2-Dichloropropane	ND	ug/L	5.0	
cis-1,3-Dichloropropene	ND	ug/L	5.0	
trans-1,3-Dichloropropene	ND	ug/L	5.0	
Ethylbenzene	ND	ug/L	5.0	
2-Hexanone	ND	ug/L	10	
Methylene chloride	5.8	ug/L	5.0	Bb
4-Methyl-2-pentanone	N.	4.	10	
(MIBK)	ND	ug/L	10	
Styrene	ND	ug/L	5.0	
1,1,2,2-Tetrachloroethane	ND	ug/L	5.0	
Tetrachloroethene	ND	ug/L	5.0	
Toluene	ND	ug/L	5.0	
1,1,1-Trichloroethane	ND	ug/L	5.0	
1,1,2-Trichloroethane	ND	ug/L	5.0	
Trichloroethene	ND	ug/L	5.0	
Vinyl acetate	ND	ug/L	10 10	
Vinyl chloride Xylenes (total)	ND ND	ug/L	5.0	
valenes (rocal)	ND	ug/L	3.0	
Surrogate	Recovery			
Toluene-d8	98	%		
4-Bromofluorobenzene	86	%		

4-Bromofluorobenzene

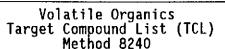
86

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers





Client Name: BSK & Associates

Client ID: B-3 Water

Lab ID: 073663-0010-SA

Received: 20 JAN 94 Analyzed: 21 JAN 94 **AQUEOUS** Sampled: 19 JAN 94 Matrix: Authorized: 20 JAN 94 Prepared: NA

Surrogate

Recovery

1,2-Dichloroethane-d4

94 %

Note b: Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

Note B: Compound is also detected in the blank.

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers



Client Name: BSK & Associates Client ID: B-5 #1

Lab ID: 073663-0011-EB

Received: 20 JAN 94 Sampled: 19 JAN 94 AQUEOUS Matrix: Analyzed: 21 JAN 94 Authorized: 20 JAN 94 Prepared: NA

Parameter	Result	Units	Reporting Limit	
Acetone Benzene Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Dibromochloromethane 1,1-Dichloroethane 1,1-Dichloroethene	ND ND ND ND ND ND ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 5.0 5.0 5.0 10 5.0 5.0 5.0 5.0 5.0 5.0 5.0	
1,2-Dichloroethene (Total) 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene 2-Hexanone Methylene chloride 4-Methyl-2-pentanone	ND ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L	5.0 5.0 5.0 5.0 5.0 10	Bb
(MIBK) Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Vinyl acetate Vinyl chloride Xylenes (total)	ND ND ND ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 5.0 5.0 5.0 5.0 5.0 10 10	
Surrogate	Recovery			
Toluene-d8 4-Bromofluorobenzene	99 99	% %		

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers



Client Name: BSK & Associates Client ID: B-5 #1

Lab ID: 073663-0011-EB

Received: 20 JAN 94 Analyzed: 21 JAN 94 Sampled: 19 JAN 94 Matrix: **AQUEOUS** Authorized: 20 JAN 94 Prepared: NA

Surrogate

Recovery

1,2-Dichloroethane-d4

100

%

Note B: Compound is also detected in the blank.

Note b: Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers



Client Name: BSK & Associates

Client ID: B-6 #1

Lab ID: 073663-0012-TB

Matrix: AQUEOUS Sampled: 19 JAN 94 Received: 20 JAN 94 Authorized: 20 JAN 94 Prepared: NA Analyzed: 21 JAN 94

Parameter	Result	Units	Reporting Limit	
Acetone Benzene Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene	ND ND ND ND 18 ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 5.0 5.0 5.0 10 10 5.0 5.0	
Chloroethane Chloroform Chloromethane Dibromochloromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,1-Dichloroethene 1,2-Dichloroethene 1,2-Dichloroethene	ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L	10 5.0 10 5.0 5.0 5.0 5.0	
(Total) 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene 2-Hexanone Methylene chloride 4-Methyl-2-pentanone	ND ND ND ND ND ND 5.9	ug/L ug/L ug/L ug/L ug/L ug/L	5.0 5.0 5.0 5.0 5.0	Bb
(MIBK) Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Vinyl acetate Vinyl chloride Xylenes (total)	ND ND ND ND ND ND ND ND	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 5.0 5.0 5.0 5.0 5.0 10 10	
Surrogate	Recovery			
Toluene-d8 4-Bromofluorobenzene	99 99	% %		

(continued on following page)

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers



Client Name: BSK & Associates

Client ID: B-6 #1

Lab ID: 073663-0012-TB

Matrix: AQUEOUS Sampled: 19 JAN 94 Received: 20 JAN 94 Authorized: 20 JAN 94 Prepared: NA Analyzed: 21 JAN 94

Surrogate

Recovery

1,2-Dichloroethane-d4

101

%

Note B: Compound is also detected in the blank.

Note b: Analytical results should not be considered reliable for this common lab contaminant unless the sample result exceed

this common lab contaminant unless the sample result exceeds 5 times the reporting limit or 10 times the blank result.

ND = Not detected NA = Not applicable

Reported By: Steve Siegel

Approved By: Steve Rogers



QC LOT ASSIGNMENT REPORT Volatile Organics by GC/MS

Laboratory Sample Number	QC Matrix	QC Category	QC Lot Number (DCS)	QC Run Number (SCS/BLANK)
073663-0010-SA	AQUEOUS	624-A	21 JAN 94-4A	21 JAN 94-4A
073663-0011-EB	AQUEOUS	624-A	21 JAN 94-4A	21 JAN 94-4A
073663-0012-TB	AQUEOUS	624-A	21 JAN 94-4A	21 JAN 94-4A



METHOD BLANK REPORT Volatile Organics by GC/MS

Test: 8240CP-TCL-AP Matrix: AQUEOUS QC Lot: 21 JAN 94-4A QC Run: 21 JAN 94-	4A		
Acetone Benzene Bromodichloromethane Bromoform Bromomethane 2-Butanone (MEK) Carbon disulfide Carbon tetrachloride Chlorobenzene Chloroethane Chloroform Chloromethane Dibromochloromethane 1,1-Dichloroethane 1,2-Dichloroethene 1,2-Dichloroethene 1,2-Dichloropropane cis-1,3-Dichloropropene trans-1,3-Dichloropropene Ethylbenzene 2-Hexanone Methylene chloride 4-Methyl-2-pentanone (MIBK) Styrene 1,1,2,2-Tetrachloroethane Tetrachloroethene Toluene 1,1,1-Trichloroethane 1,1,2-Trichloroethane Trichloroethene Vinyl acetate Vinyl chloride Xylenes (total)	ND ND ND ND ND ND ND ND ND ND ND ND ND N	ug/L ug/L ug/L ug/L ug/L ug/L ug/L ug/L	10 5.0 5.0 10 5.0 10 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.0 5.



DUPLICATE CONTROL SAMPLE REPORT Volatile Organics by GC/MS

Analyte	Conc Spiked	entration DCS1	Measured DCS2	AVG		uracy age(%) Limits	Precision (RPD) DCS Limit
Category: 624-A Matrix: AQUEOUS QC Lot: 21 JAN 94-4A Concentration Units: ug/L							
1,1-Dichloroethene Trichloroethene Benzene Toluene Chlorobenzene	50 50 50 50 50	47.6 49.8 52.8 51.3 52.9	45.7 46.6 49.1 48.5 49.6	46.6 48.2 51.0 49.9 51.2	93 96 102 100 103	65-139 70-119 81-129 83-125 83-125	4.1 16.0 6.6 13.0 7.3 13.0 5.6 14.0 6.4 11.0

Calculations are performed before rounding to avoid round-off errors in calculated results.



SINGLE CONTROL SAMPLE REPORT Volatile Organics by GC/MS

Accuracy(%) Concentration Spiked Measured SCS Limits Analyte Category: 624-A Matrix: AQUEOUS QC Lot: 21 JAN 94-4A QC Run: 21 JAN 94-4A Concentration Units: UG/L 1,2-Dichloroethane-d4 50.0 47.6 95 88-107 49.8 100 89-113 50.0 4-Bromofluorobenzene 99 92-110 Toluene-d8 50.0 49.7

Calculations are performed before rounding to avoid round-off errors in calculated results.



Oil and Grease (TPH Fraction), IR

Method SM 5520CF

Client Name: BSK & Associates Client ID: B-3 Water Lab ID: 073663-0010-SA

AQUEOUS Sampled: 19 JAN 94 Prepared: 21 JAN 94 Matrix: Authorized: 20 JAN 94

Received: 20 JAN 94 Analyzed: 23 JAN 94

Reporting Limit Parameter Result Units

1.0 Oil and Grease (TPH Fraction) ND mg/L

ND = Not detected NA = Not applicable

Reported By: Lisa Stafford

Approved By: Kirby Garrett



QC LOT ASSIGNMENT REPORT Hydrocarbon Work Cell

Laboratory Sample Number

073663-0010-SA

QC Matrix

AQUEOUS

QC Category

QC Lot Number (DCS)

QC Run Number (SCS/BLANK)

21 JAN 94-11A 21 JAN 94-11A

TPH-SM-A



METHOD BLANK REPORT Hydrocarbon Work Cell

Reporting Limit Analyte Result Units

Test: TPH-IR-0&G/5520CF-A
Matrix: AQUEOUS
QC Lot: 21 JAN 94-11A QC Run: 21 JAN 94-11A

Oil and Grease (TPH Fraction) 1.0 ND mg/L

..



1.4 36.0

104 53-158

DUPLICATE CONTROL SAMPLE REPORT Hydrocarbon Work Cell

Oil and Grease (TPH Fraction)

	Concentration				Accuracy	Precision
Analyte	Spiked	DCS1	Measured DCS2	AVG	Average(%) DCS Limits	(RPD) DCS Limit
Category: TPH-SM-A Matrix: AQUEOUS QC Lot: 21 JAN 94-11A Concentration Units: mg/L						

Calculations are performed before rounding to avoid round-off errors in calculated results.

2.07

2.0

2.10

2.08

1	30	CCI
PROJECT AIRCO SAN LEANARD ASSESSMEN	+ PROJECT NO. P94014.3	
SUBJECT Preliminary Endlangerment		DATE 2-2-94
A	DEVIEWED BY F Gragina	
Assessment - Acetane/MER	REVIEWED BY F. Gregarus and CK.	DATE 2/2/9
ementer de la companya del companya del companya de la companya de		
PLAN		
The plan for this calculations for Application of	wlation is attached a Screening Values" from	App. A.
of the below listed re-		
REFERENCE		
1) California Department	of Health Services	and the second s
"Interim Guidance for	Preparation of a Preli	minery
Endangerment Assessme		
DATA		and the second s
		and the second s
Acetone/water	Acetone/Soil ME	K/501L
An Baile in it is a first of the second of t		
Sample Gonc. 10 mg/e.	3100 pg/kg	19/15/kg
	1-	
Ref 1) TABLE A.3	10,000 mg/kg=	106 mg/h
randomination of an electrical property of a constraint of the con	10,000,000 Hg/1	100
5 YEAR (CHILD)	10,000,000 plg/pg	109000 pigs
		Andrew State of the Control of the C
CALCULATIONS		and the second second
manufacture and a second of the control of the cont		in the second second second second second second second second second second second second second second second
TEST 1	e e e e e e e e e e e e e e e e e e e	
The state of the s	· · · · · · · · ·	
A CETONE AND	Screening level	
	-	50.000
The state of the s	Screening level	and the state of t
A Controller for a Children for a Children for the Controller for the	· ·	
······································	=0.0002 22	< / (A)
ACETONE/SOIL	· Sanda /	
	-: Sample Conc.	3/00 =
magnatura managnatura managnat	Screening level	
and de situation de la company	= 0.00031 24	1 (B)
AND AND ADDRESS OF THE PARTY OF	ニー ひいつりかい そん	7

PROJECT AIRCO SAN LEANDED ASSESSMENT PROJECT NO. P94014.3 SUBJECT Preliminary Endangerment BY J. Schweizer

Assessment - Ace tone / MEK REVIEWED BY F. Gragurus REVIEWED BY F. Graguvas DATE 2/2, and CK. TEST 1 (COT'O) MEK/Soil: Sample Conc Screening level 100,000 =200074 <u>441</u> (6 TEST 2 (A) + (B) < 1? .00051 441 0,0002 + 0,0003/= TEST 3 (A)+(B)+(C) <1? 0,0002+ 0,00031 + 0,00074 =000125 44

Instructions for Application of Screening Values

The screening of contaminants on a hazardous waste site can be accomplished by applying a series of three appraisal tests. If any of the tests fail, it is concluded that a significant level of contamination exists at the site.

<u>Test 1:</u> The first test in the risk appraisal process evaluates single chemical/single medium exposure. It determines whether a biological receptor receives an excessive exposure to any toxic substance via contact with a contaminated medium (e.g., water, air, soil, or biota). The test compares the level of exposure to a chemical in a medium, abbreviated as C_{medium}, with the screening level for that chemical in the same medium, i.e.,

C_{medium}

Screening Level_{medium}

If the resulting value is greater than one, then the test fails and the level of contamination is considered to be significant.

<u>Test 2:</u> The second test in the risk appraisal process evaluates single chemical/multiple media exposure. It determines whether a biological receptor receives an excessive exposure to any toxic substance via contact with all pertinent media of exposure. The exposures via various media are assumed to be cumulative. Test 2 is:

Cwater	C_{air}	C_{soil}
	+	
Screening Level	Screening Levelair	Screening Level, oil

If the sum above exceeds unity, then the test fails, and the level of contamination is considered to be significant.

<u>Test 3:</u> The third test in the risk appraisal process evaluates multiple chemical/multiple media exposure. It determines whether a biological receptor receives an excessive exposure in all pertinent media to an aggregate of substances. This test can be expressed as:

C _{water,1}	+	nair, 1	+	Çsoil1	_ +
Screening Level	Screening	Level _{ie,1}	Screen	ing Level, oil 1	
C _{water,2}	_ +	Cair	.2	_ +	C _{soil,2}
Screening Level _{sir,2}		Screening	g Level _{±2}	Screening	Level _{oil,2}
		C	medium,n		
	+				
		Screening	Level		

If the sum for all contaminants exceed unity, then the test fails and the level of contamination is considered to be significant.